

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-200HL-RM-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

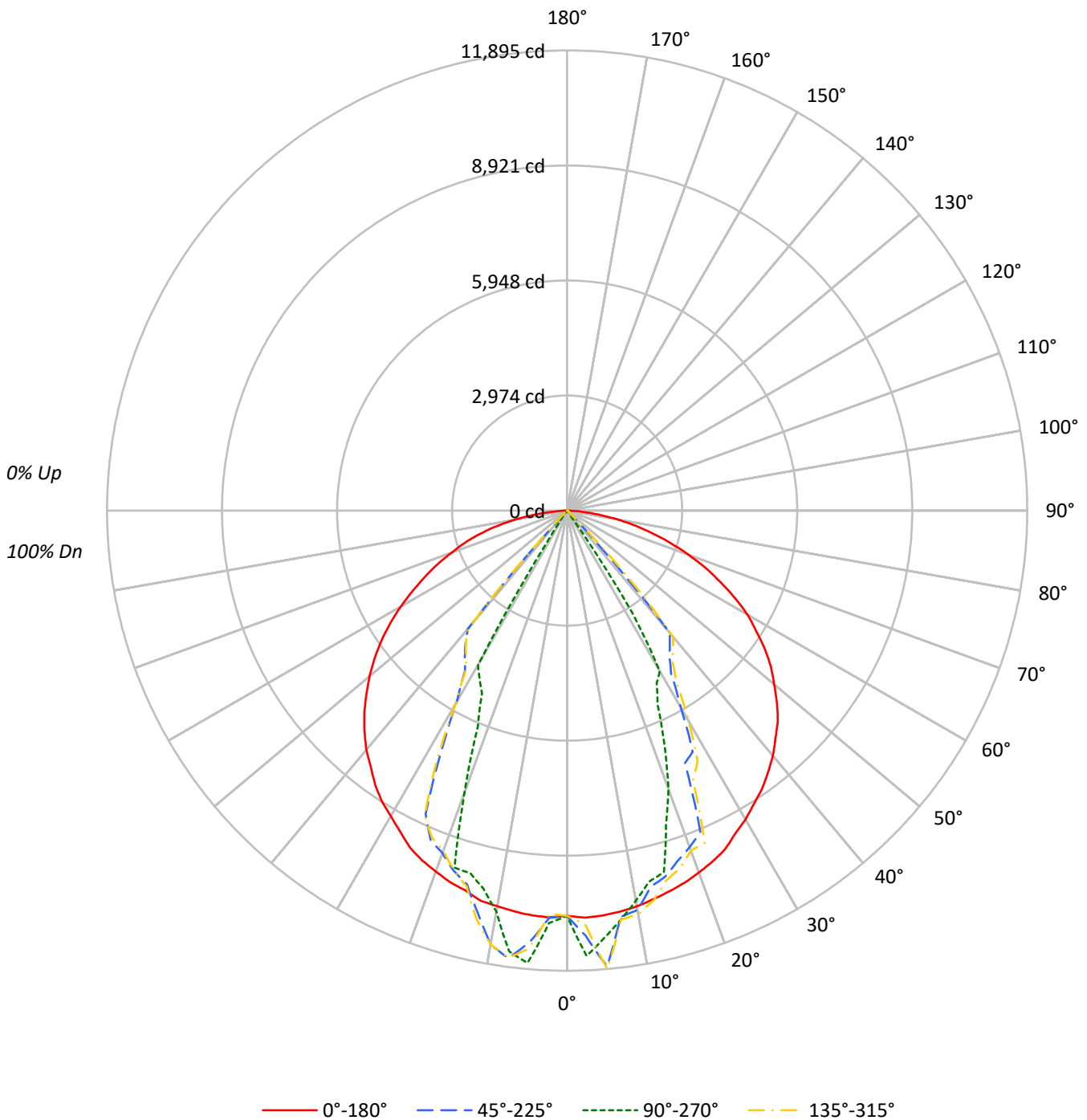
Lumens per Lamp: N/A
Luminaire Lumens: 14893.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42320	42320	42320	42320
5°	42551	43525	42538	46093
10°	42507	39386	42482	40523
15°	42452	36762	42347	36857
20°	42564	28956	42443	29312
25°	42753	20955	42545	19774
30°	42630	18382	42180	17671
35°	42837	405	42208	491
40°	43074	88	42043	88
45°	43330	52	41703	39
50°	43122	41	41143	41
55°	43017	29	40374	29
60°	42392	31	39078	31
65°	40420	50	37541	33
70°	37814	55	35998	55
75°	33895	61	34453	61
80°	28218	70	29832	70
85°	17681	82	18051	82



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.8	7.1
10°-20°	2866.3	19.2
20°-30°	3647.3	24.5
30°-40°	3081.0	20.7
40°-50°	2014.2	13.5
50°-60°	1269.1	8.5
60°-70°	675.6	4.5
70°-80°	246.3	1.7
80°-90°	42.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7564.4	50.8
0°-40°	10645.3	71.5
0°-60°	13928.7	93.5
0°-90°	14893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14893.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10474	10474	10474	10474	10474	
5°	10505	11084	10502	11738	10505	999
15°	10191	9672	10166	9697	10191	2881
25°	9660	5523	9613	5212	9660	4442
35°	8780	104	8651	126	8780	5492
45°	7701	13	7412	9	7701	5923
55°	6243	6	5859	6	6243	5562
65°	4369	9	4058	6	4369	4327
75°	2298	9	2336	9	2298	2439
85°	450	9	459	9	450	568
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10533.6	10539.9	10543.0	10549.3	10558.7	10561.9	10568.2	10561.9	10561.9	10561.9	10561.9
5°	10505.3	10517.9	10527.3	10539.9	10561.9	10565.0	10590.2	10593.3	10605.9	10631.0	10649.9
7.5°	10458.2	10470.7	10489.6	10521.0	10552.5	10587.0	10631.0	10678.2	10744.2	10807.1	10885.7
10°	10389.0	10404.7	10426.7	10455.0	10609.0	10631.0	10728.5	10863.7	10901.4	11099.4	11247.2
12.5°	10288.4	10341.8	10398.4	10423.6	10571.3	10803.9	11130.8	11064.8	10992.5	11640.1	11630.6
15°	10191.0	10263.3	10235.0	10439.3	10574.5	10980.0	10841.7	11137.1	11677.8	11545.8	11552.1
17.5°	10087.2	10102.9	10260.1	10429.9	10671.9	10879.4	11049.1	11454.6	11561.5	11570.9	11454.6
20°	9955.2	10030.6	10260.1	10414.1	10822.8	10920.2	11288.0	11495.5	11451.5	11344.6	11146.6
22.5°	9820.0	10049.5	10282.1	10499.0	10785.1	11046.0	11228.3	11325.7	11096.3	10675.1	10448.7
25°	9659.7	9794.9	10099.8	10417.3	10775.6	10926.5	11033.4	10876.2	10577.6	10200.4	9820.0
27.5°	9411.4	9628.3	10018.1	10376.4	10700.2	10882.5	10709.6	10332.4	9851.5	9603.1	9430.3
30°	9219.6	9502.6	9823.2	10169.0	10505.3	10612.2	10172.1	9741.5	9411.4	9163.1	9125.3
32.5°	8987.0	9389.4	9694.3	10024.4	10307.3	10165.8	9738.3	9181.9	8908.4	8814.1	8851.9
35°	8779.6	9084.5	9483.7	9807.5	10011.8	9694.3	9018.5	8672.7	8540.7	8594.1	8525.0
37.5°	8531.2	8933.6	9301.4	9581.1	9512.0	9034.2	8462.1	8242.0	8257.8	8213.8	8081.7
40°	8273.5	8657.0	9040.5	9304.5	9062.5	8333.2	7952.8	7905.7	7915.1	7773.7	7585.1
42.5°	7971.7	8320.6	8704.1	8943.0	8421.2	7852.3	7594.5	7600.8	7519.1	7321.0	7220.4
45°	7701.4	8022.0	8421.2	8443.2	7802.0	7327.3	7251.9	7170.1	6987.8	6921.8	6846.4
47.5°	7355.6	7710.8	8040.9	7921.4	7195.3	6899.8	6843.2	6664.0	6572.9	6522.6	6459.7
50°	6987.8	7346.2	7647.9	7308.4	6623.2	6554.0	6368.6	6227.1	6164.2	6110.8	6054.2
52.5°	6638.9	6934.4	7242.4	6657.8	6183.1	6117.1	5906.5	5824.8	5761.9	5702.2	5689.6
55°	6242.8	6503.7	6714.3	6038.5	5761.9	5607.9	5457.0	5400.4	5340.7	5312.4	5359.5
57.5°	5793.3	6088.8	6057.4	5428.7	5306.1	5082.9	5026.3	4988.6	4944.6	4963.5	4570.5
60°	5387.8	5614.1	5460.1	4982.3	4774.9	4624.0	4573.7	4548.5	4573.7	4190.2	3684.1
62.5°	4888.0	5142.6	4831.4	4460.5	4240.5	4168.2	4124.2	4158.7	3791.0	3369.7	3247.2
65°	4369.4	4646.0	4187.0	3901.0	3762.7	3699.8	3696.7	3404.3	3042.8	2879.4	2879.4
67.5°	3869.5	4155.6	3564.6	3325.7	3272.3	3278.6	3096.3	2653.0	2552.5	2442.4	2125.0
70°	3338.3	3589.8	2945.4	2800.8	2769.4	2747.3	2304.1	2184.7	2065.2	1772.9	1747.7
72.5°	2810.2	2932.8	2367.0	2332.4	2326.1	1933.2	1845.2	1640.9	1502.6	1468.0	1452.3
75°	2297.8	2260.1	1870.3	1901.8	1603.1	1464.8	1323.4	1203.9	1185.1	1172.5	292.3
77.5°	1813.8	1625.1	1474.3	1282.5	1147.3	974.5	946.2	927.3	609.8	220.0	179.2
80°	1320.2	1053.0	980.7	833.0	710.4	682.1	697.8	213.8	169.7	141.5	122.6
82.5°	839.3	672.7	550.1	480.9	468.4	204.3	150.9	122.6	106.9	91.2	75.4
85°	449.5	298.6	276.6	232.6	138.3	94.3	78.6	59.7	50.3	40.9	37.7
87.5°	141.5	119.4	97.4	78.6	47.2	31.4	25.1	22.0	18.9	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10555.6	10561.9	10558.7	10568.2	10568.2	10580.7	10590.2	10599.6	10618.5	10627.9	10700.2
5°	10690.8	10706.5	10753.6	10797.6	10851.1	10866.8	10958.0	10980.0	11086.8	11099.4	11451.5
7.5°	10992.5	11052.3	11165.4	11278.6	11391.7	11464.0	11589.8	11668.4	11753.2	11828.7	12108.4
10°	11357.2	11457.8	11567.8	11680.9	11747.0	11885.3	11960.7	11973.3	11951.3	11828.7	11376.0
12.5°	11715.5	11816.1	11769.0	11791.0	11869.5	11624.4	11658.9	11482.9	11605.5	10998.8	10549.3
15°	11665.2	11658.9	11542.6	11165.4	11228.3	10759.9	10571.3	10426.7	10543.0	10480.2	10411.0
17.5°	11514.3	11228.3	11027.1	10574.5	10382.7	10250.7	10253.8	10257.0	10200.4	10260.1	10084.1
20°	10876.2	10555.6	10257.0	10096.7	10040.1	9945.8	9992.9	9945.8	9948.9	9967.8	9697.4
22.5°	10027.5	9930.1	9757.2	9807.5	9788.6	9873.5	9810.6	9713.2	9744.6	9603.1	9398.8
25°	9684.9	9571.7	9565.4	9584.3	9556.0	9518.3	9461.7	9314.0	9304.5	9260.5	9166.2
27.5°	9339.1	9345.4	9364.2	9307.7	9207.1	9131.6	9046.8	8974.5	9002.8	8952.5	8823.6
30°	9100.2	9097.1	8983.9	8933.6	8748.1	8751.3	8729.3	8685.3	8657.0	8660.1	8578.4
32.5°	8760.7	8663.3	8534.4	8471.5	8455.8	8399.2	8355.2	8364.6	8386.6	8308.1	8392.9
35°	8411.8	8210.6	8191.7	8138.3	8088.0	8050.3	8066.0	8003.1	8000.0	7990.6	7299.0
37.5°	7943.4	7846.0	7836.5	7780.0	7745.4	7736.0	7676.2	7685.7	7713.9	7764.2	6224.0
40°	7556.8	7468.8	7446.8	7443.6	7368.2	7361.9	7377.6	7437.3	7478.2	7163.9	5931.6
42.5°	7141.8	7148.1	7079.0	7035.0	7044.4	7072.7	7148.1	6940.7	6013.4	5730.5	5422.4
45°	6786.6	6755.2	6717.5	6704.9	6786.6	6730.1	5900.2	5444.4	5334.4	5321.8	4457.4
47.5°	6415.7	6406.3	6390.6	6400.0	5934.8	5290.4	5101.8	5042.0	5060.9	5048.3	3828.7
50°	6041.7	6054.2	6054.2	5287.2	4853.4	4746.6	4762.3	4815.7	4482.5	4183.9	3567.8
52.5°	5717.9	5620.4	4815.7	4539.1	4441.7	4488.8	4375.6	3957.6	3655.8	3479.8	3300.6
55°	5117.5	4400.8	4221.6	4177.6	4212.2	3794.1	3536.3	3266.0	3187.4	3168.6	3064.8
57.5°	4026.7	3882.1	3897.8	3721.8	3322.6	3086.8	2983.1	2945.4	2910.8	2885.7	251.5
60°	3561.5	3602.4	3297.4	2920.2	2759.9	2728.5	2703.3	2668.8	2662.5	2618.5	160.3
62.5°	3259.7	2866.8	2602.8	2508.4	2470.7	2461.3	2414.1	2398.4	2036.9	279.8	119.4
65°	2458.2	2297.8	2247.5	2225.5	2184.7	2184.7	1813.8	286.1	232.6	201.2	106.9
67.5°	2005.5	1992.9	1967.8	1939.5	1320.2	276.6	242.0	210.6	182.3	160.3	94.3
70°	1697.4	1691.2	1540.3	282.9	235.8	207.5	182.3	163.5	150.9	135.2	84.9
72.5°	1392.5	282.9	238.9	207.5	179.2	163.5	147.7	132.0	119.4	110.0	69.2
75°	216.9	191.7	169.7	154.0	141.5	125.7	113.2	103.7	100.6	88.0	47.2
77.5°	157.2	135.2	122.6	110.0	97.4	88.0	75.4	66.0	59.7	50.3	34.6
80°	110.0	97.4	88.0	72.3	62.9	53.4	47.2	40.9	37.7	31.4	15.7
82.5°	62.9	53.4	47.2	37.7	34.6	28.3	25.1	22.0	22.0	15.7	15.7
85°	28.3	28.3	22.0	18.9	15.7	15.7	15.7	12.6	12.6	9.4	9.4
87.5°	12.6	12.6	12.6	12.6	12.6	9.4	9.4	9.4	9.4	9.4	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10800.8	10841.7	10920.2	11002.0	10910.8	11237.7	11212.6	11322.6	11382.3	11410.6	11476.6
5°	11762.7	11945.0	12004.7	11825.5	11721.8	11614.9	11372.9	11190.6	11212.6	11152.9	10936.0
7.5°	11743.8	11354.0	10829.1	10590.2	10571.3	10543.0	10618.5	10662.5	10668.8	10665.6	10659.3
10°	10750.5	10549.3	10514.7	10483.3	10495.9	10379.6	10326.1	10175.2	10257.0	10213.0	10228.7
12.5°	10448.7	10401.6	10216.1	9958.4	10112.4	9996.1	9930.1	9974.1	9923.8	9876.6	9860.9
15°	10269.5	9964.6	9860.9	9798.0	9754.0	9728.9	9750.9	9700.6	9684.9	9675.4	9697.4
17.5°	9898.6	9776.0	9662.9	9496.3	9499.4	9490.0	9552.8	9647.2	9653.4	9169.4	8732.4
20°	9606.3	9505.7	9361.1	9257.4	9398.8	9147.3	8176.0	7713.9	7641.7	7641.7	7654.2
22.5°	9373.7	9150.5	9159.9	8996.5	7673.1	7402.8	7409.0	7437.3	7308.4	6868.4	6821.2
25°	9056.2	9021.6	8333.2	7201.6	7211.0	7000.4	6676.6	6220.8	5727.3	5727.3	5645.6
27.5°	8817.3	8084.9	7079.0	7031.8	6324.6	5878.2	5601.6	5183.5	5126.9	5073.5	5079.8
30°	8613.0	6840.1	6865.2	5878.2	5356.4	4985.5	4963.5	4894.3	4859.7	4850.3	4815.7
32.5°	6808.6	6660.9	5746.2	5004.3	4800.0	4740.3	4712.0	4633.4	4630.3	4570.5	4155.6
35°	6384.3	5846.8	4809.4	4608.3	4548.5	4491.9	4444.8	2983.1	352.1	141.5	122.6
37.5°	5900.2	4884.9	4447.9	4356.8	4300.2	3178.0	317.5	110.0	78.6	56.6	50.3
40°	5001.2	4363.1	4224.8	4124.2	1700.6	110.0	69.2	53.4	31.4	28.3	25.1
42.5°	4218.5	4111.6	3963.9	1207.1	125.7	53.4	34.6	25.1	22.0	22.0	18.9
45°	3948.1	3853.8	1596.9	119.4	78.6	25.1	22.0	22.0	18.9	12.6	12.6
47.5°	3696.7	3253.4	144.6	75.4	50.3	22.0	18.9	12.6	12.6	12.6	9.4
50°	3429.5	179.2	100.6	56.6	31.4	12.6	12.6	12.6	12.6	9.4	9.4
52.5°	641.3	125.7	81.7	50.3	15.7	12.6	12.6	12.6	9.4	9.4	9.4
55°	150.9	100.6	75.4	44.0	12.6	12.6	12.6	9.4	9.4	9.4	6.3
57.5°	113.2	75.4	59.7	40.9	12.6	9.4	9.4	9.4	9.4	9.4	6.3
60°	94.3	53.4	47.2	37.7	9.4	9.4	9.4	9.4	9.4	9.4	6.3
62.5°	66.0	44.0	34.6	28.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4
65°	53.4	34.6	28.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
67.5°	47.2	28.3	18.9	6.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4
70°	37.7	9.4	9.4	6.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4
72.5°	31.4	9.4	6.3	6.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4
75°	31.4	15.7	6.3	6.3	9.4	9.4	12.6	12.6	9.4	9.4	9.4
77.5°	22.0	15.7	6.3	6.3	9.4	9.4	12.6	12.6	9.4	9.4	9.4
80°	12.6	15.7	6.3	9.4	9.4	18.9	22.0	12.6	9.4	9.4	9.4
82.5°	12.6	15.7	18.9	18.9	9.4	15.7	18.9	15.7	12.6	9.4	9.4
85°	12.6	9.4	12.6	15.7	9.4	15.7	15.7	12.6	12.6	9.4	9.4
87.5°	6.3	9.4	9.4	12.6	12.6	12.6	15.7	12.6	12.6	12.6	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	11508.1	11520.6	11322.6	11253.4	11313.2	11300.6	11247.2	11049.1	11027.1	10895.1	10703.3
5°	10998.8	11083.7	10980.0	11159.1	11074.3	11159.1	11416.9	11536.3	11731.2	11850.7	11894.7
7.5°	10643.6	10662.5	10662.5	10678.2	10693.9	10697.1	10678.2	10665.6	10612.2	10546.2	10665.6
10°	10213.0	10235.0	10272.7	10266.4	10263.3	10329.3	10345.0	10480.2	10473.9	10499.0	10590.2
12.5°	9989.8	9820.0	9974.1	9933.2	9989.8	9901.8	10065.2	10036.9	10046.4	10121.8	10316.7
15°	9618.9	9672.3	9710.0	9710.0	9732.0	9713.2	9694.3	9823.2	9901.8	9904.9	9892.3
17.5°	8905.3	8499.8	8914.7	8807.9	9659.7	9681.7	9609.4	9549.7	9549.7	9596.9	9697.4
20°	7644.8	7654.2	7657.4	7698.2	7748.5	7745.4	7748.5	8987.0	9574.9	9439.7	9348.5
22.5°	6701.8	6585.5	6802.4	6786.6	7057.0	7355.6	7641.7	7613.4	7632.2	8506.1	9291.9
25°	5372.1	5523.0	5400.4	5453.8	5758.7	6113.9	6334.0	6909.2	7534.8	7490.8	7695.1
27.5°	5057.8	5016.9	5073.5	5073.5	5114.3	5161.5	5284.1	5607.9	6164.2	6748.9	7302.2
30°	4759.1	4793.7	4800.0	4856.6	4888.0	4919.5	4938.3	5060.9	5186.6	5592.1	6274.3
32.5°	3574.1	3134.0	4124.2	4391.4	4617.7	4671.1	4708.8	4759.1	4850.3	4910.0	5252.7
35°	103.7	103.7	110.0	125.7	160.3	1081.3	4117.9	4539.1	4598.8	4674.3	4737.1
37.5°	50.3	37.7	44.0	47.2	56.6	78.6	113.2	352.1	3919.8	4432.2	4501.4
40°	22.0	22.0	22.0	22.0	25.1	31.4	47.2	78.6	119.4	3152.8	4253.0
42.5°	18.9	18.9	18.9	18.9	18.9	18.9	22.0	28.3	56.6	135.2	2231.8
45°	12.6	12.6	9.4	12.6	12.6	15.7	18.9	18.9	25.1	84.9	154.0
47.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	15.7	18.9	56.6	81.7
50°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	44.0	56.6
52.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	18.9	50.3
55°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.4	9.4	12.6	44.0
57.5°	6.3	6.3	6.3	6.3	6.3	9.4	6.3	6.3	9.4	9.4	40.9
60°	6.3	6.3	6.3	6.3	6.3	9.4	9.4	9.4	9.4	9.4	37.7
62.5°	9.4	9.4	6.3	9.4	6.3	6.3	9.4	9.4	9.4	9.4	25.1
65°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	6.3	9.4
67.5°	9.4	9.4	9.4	9.4	6.3	9.4	6.3	9.4	9.4	6.3	6.3
70°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	6.3	6.3	6.3	6.3
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	6.3	6.3	6.3	6.3
75°	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	6.3	6.3	6.3
77.5°	9.4	9.4	9.4	9.4	9.4	9.4	15.7	18.9	15.7	15.7	6.3
80°	9.4	9.4	9.4	9.4	9.4	9.4	15.7	15.7	15.7	15.7	22.0
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	12.6	12.6	15.7
85°	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	12.6	9.4	12.6
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10719.1	10612.2	10577.6	10505.3	10499.0	10505.3	10489.6	10467.6	10480.2	10458.2	10439.3
5°	11919.8	11633.8	11448.3	11200.0	10857.4	10781.9	10763.1	10656.2	10618.5	10605.9	10555.6
7.5°	10948.5	11470.3	11784.7	11891.6	11489.2	11394.9	11284.9	11196.9	11112.0	10951.7	10854.2
10°	10517.9	10543.0	10844.8	11196.9	11769.0	11847.5	11907.3	11715.5	11662.1	11253.4	11165.4
12.5°	10417.3	10420.4	10455.0	10668.8	11118.3	11168.6	11379.2	11492.3	11630.6	11709.2	11646.4
15°	9958.4	10213.0	10401.6	10420.4	10461.3	10549.3	10612.2	11005.1	11171.7	11618.1	11592.9
17.5°	9744.6	9826.3	10099.8	10323.0	10285.3	10253.8	10304.1	10357.6	10517.9	10964.2	10958.0
20°	9389.4	9650.3	9798.0	10030.6	10241.3	10250.7	10194.1	10162.7	10099.8	10172.1	10238.1
22.5°	9238.5	9279.4	9556.0	9719.5	9958.4	10043.2	10055.8	10058.9	10024.4	9986.6	9967.8
25°	9222.8	9093.9	9235.4	9439.7	9615.7	9706.9	9810.6	9845.2	9832.6	9832.6	9813.8
27.5°	7547.3	9053.0	8977.6	9112.8	9326.5	9389.4	9442.8	9549.7	9615.7	9662.9	9684.9
30°	7189.0	7459.3	8776.4	8795.3	9012.2	9005.9	9065.6	9153.6	9238.5	9348.5	9376.8
32.5°	6359.1	7022.4	8034.6	8477.8	8704.1	8726.1	8757.6	8782.7	8861.3	8983.9	9090.8
35°	5095.5	6396.9	6884.1	8326.9	8367.8	8411.8	8430.6	8490.4	8515.5	8565.8	8660.1
37.5°	4611.4	5287.2	6604.3	7201.6	7981.1	8018.9	8119.5	8144.6	8185.5	8226.3	8298.6
40°	4331.6	4517.1	5497.8	6431.4	7669.9	7695.1	7729.7	7792.5	7795.7	7842.8	7908.8
42.5°	4108.4	4227.9	4513.9	6142.2	7449.9	7446.8	7365.0	7405.9	7424.8	7475.1	7566.2
45°	3281.7	3967.0	4149.3	5016.9	5931.6	6359.1	7179.6	7044.4	7041.3	7060.1	7157.6
47.5°	166.6	3731.2	3860.1	4139.9	5601.6	5617.3	5724.2	6623.2	6761.5	6717.5	6726.9
50°	113.2	257.8	3596.1	3725.0	4828.3	5218.1	5296.7	5337.5	5856.2	6434.6	6340.3
52.5°	88.0	147.7	2203.5	3457.8	3923.0	4209.0	4715.1	5004.3	5035.8	5268.4	6057.4
55°	78.6	113.2	238.9	3190.6	3335.2	3398.0	3693.5	4199.6	4608.3	4730.8	4740.3
57.5°	69.2	103.7	163.5	1442.8	3033.4	3046.0	3096.3	3272.3	3640.1	3976.4	4356.8
60°	62.9	91.2	128.9	248.3	2756.8	2788.2	2797.6	2844.8	2888.8	3118.3	3555.2
62.5°	37.7	72.3	113.2	179.2	2181.5	2505.3	2502.2	2533.6	2574.5	2599.6	2687.6
65°	31.4	56.6	97.4	150.9	267.2	333.2	2024.4	2250.7	2275.8	2310.4	2326.1
67.5°	28.3	50.3	72.3	119.4	201.2	229.5	264.0	326.9	1785.5	2011.8	2043.2
70°	25.1	34.6	59.7	100.6	163.5	176.0	198.0	226.3	267.2	330.1	1615.7
72.5°	15.7	25.1	40.9	72.3	125.7	141.5	154.0	172.9	191.7	229.5	264.0
75°	6.3	18.9	34.6	53.4	97.4	106.9	116.3	128.9	144.6	169.7	188.6
77.5°	6.3	15.7	28.3	37.7	62.9	72.3	84.9	94.3	106.9	119.4	138.3
80°	22.0	12.6	18.9	28.3	44.0	47.2	53.4	59.7	69.2	78.6	91.2
82.5°	15.7	18.9	22.0	18.9	22.0	28.3	31.4	37.7	40.9	47.2	50.3
85°	12.6	12.6	15.7	15.7	15.7	15.7	15.7	15.7	18.9	22.0	28.3
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10439.3	10433.0	10414.1	10414.1	10411.0	10423.6	10433.0	10442.4	10439.3	10458.2	10439.3
5°	10517.9	10502.2	10473.9	10448.7	10439.3	10445.6	10436.2	10445.6	10433.0	10448.7	10420.4
7.5°	10734.8	10681.3	10571.3	10527.3	10470.7	10467.6	10439.3	10433.0	10414.1	10414.1	10379.6
10°	11118.3	10860.5	10829.1	10697.1	10649.9	10420.4	10470.7	10385.9	10376.4	10335.6	10319.8
12.5°	11432.6	11231.4	11171.7	11055.4	10923.4	10458.2	10561.9	10379.6	10370.1	10288.4	10203.5
15°	11438.9	11555.2	11391.7	11071.1	11042.8	10722.2	10511.6	10448.7	10367.0	10121.8	10162.7
17.5°	11071.1	11338.3	11416.9	11347.7	11146.6	10929.7	10634.2	10508.4	10263.3	10153.2	10077.8
20°	10473.9	10744.2	11080.6	11102.6	11228.3	11074.3	10687.6	10483.3	10187.8	9996.1	9933.2
22.5°	9999.2	10197.3	10583.9	10763.1	10917.1	10970.5	10725.3	10423.6	10055.8	9870.3	9832.6
25°	9747.7	9791.7	9908.1	10118.7	10458.2	10703.3	10737.9	10417.3	10225.5	9820.0	9606.3
27.5°	9656.6	9618.9	9571.7	9678.6	9933.2	10231.8	10429.9	10483.3	10005.5	9618.9	9405.1
30°	9424.0	9446.0	9373.7	9336.0	9502.6	9810.6	10162.7	10250.7	9882.9	9483.7	9238.5
32.5°	9137.9	9175.6	9188.2	9122.2	9087.6	9301.4	9681.7	9892.3	9873.5	9291.9	9018.5
35°	8779.6	8886.4	8914.7	8917.9	8861.3	8826.7	9046.8	9483.7	9650.3	9203.9	8807.9
37.5°	8402.4	8433.8	8587.8	8628.7	8628.7	8525.0	8688.4	9037.3	9269.9	9005.9	8550.1
40°	7930.8	8031.4	8176.0	8248.3	8320.6	8330.1	8238.9	8484.1	8867.6	8801.6	8308.1
42.5°	7588.2	7654.2	7742.2	7839.7	7987.4	8025.1	7930.8	7974.9	8374.1	8547.0	7993.7
45°	7189.0	7277.0	7302.2	7409.0	7563.1	7673.1	7669.9	7578.8	7899.4	8113.2	7764.2
47.5°	6780.4	6865.2	6909.2	6962.7	7075.8	7217.3	7295.9	7255.0	7317.9	7736.0	7459.3
50°	6359.1	6406.3	6494.3	6554.0	6629.5	6711.2	6899.8	6937.5	6849.5	7182.7	7123.0
52.5°	5959.9	5975.6	6035.4	6095.1	6195.7	6255.4	6406.3	6519.5	6513.2	6610.6	6748.9
55°	5648.7	5579.6	5592.1	5639.3	5705.3	5796.5	5881.3	6057.4	6117.1	6136.0	6356.0
57.5°	4413.4	5123.8	5186.6	5183.5	5262.1	5302.9	5381.5	5497.8	5711.6	5664.4	5909.6
60°	4011.0	4089.6	4683.7	4752.8	4781.1	4818.9	4913.2	5020.0	5177.2	5277.8	5384.7
62.5°	3058.5	3536.3	3715.5	4240.5	4322.2	4344.2	4407.1	4457.4	4620.8	4850.3	4806.3
65°	2367.0	2571.3	3118.3	3332.0	3778.4	3835.0	3923.0	3976.4	4023.6	4287.6	4300.2
67.5°	2046.4	2077.8	2225.5	2637.3	2920.2	3357.2	3410.6	3457.8	3530.1	3718.7	3835.0
70°	1747.7	1785.5	1826.3	1860.9	2228.7	2517.9	2923.4	2939.1	2986.2	3112.0	3376.0
72.5°	330.1	1493.1	1518.3	1540.3	1581.1	1772.9	2159.5	2473.9	2492.7	2552.5	2794.5
75°	223.2	260.9	358.3	1232.2	1273.1	1285.7	1351.7	1744.6	2033.8	2046.4	2153.2
77.5°	160.3	179.2	216.9	257.8	657.0	987.0	1002.8	1075.0	1373.7	1590.6	1609.4
80°	110.0	122.6	144.6	163.5	201.2	264.0	729.3	751.3	789.0	1087.6	1144.2
82.5°	62.9	72.3	84.9	103.7	119.4	150.9	194.9	251.5	512.4	547.0	726.1
85°	31.4	34.6	40.9	50.3	59.7	72.3	97.4	119.4	163.5	295.5	304.9
87.5°	15.7	15.7	15.7	15.7	25.1	28.3	34.6	44.0	56.6	84.9	110.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10442.4	10486.4	10524.2	10533.6	10533.6	10539.9	10549.3	10555.6	10561.9	10568.2	10561.9
5°	10423.6	10470.7	10502.2	10511.6	10511.6	10530.5	10546.2	10565.0	10574.5	10574.5	10568.2
7.5°	10376.4	10411.0	10451.9	10477.0	10480.2	10511.6	10539.9	10536.7	10549.3	10555.6	10571.3
10°	10313.6	10313.6	10382.7	10401.6	10417.3	10451.9	10461.3	10480.2	10524.2	10530.5	10571.3
12.5°	10282.1	10250.7	10332.4	10341.8	10395.3	10351.3	10407.9	10426.7	10382.7	10442.4	10363.9
15°	10140.7	10178.4	10165.8	10194.1	10288.4	10238.1	10392.1	10341.8	10455.0	10319.8	10558.7
17.5°	10024.4	10018.1	10068.4	10093.5	10112.4	10219.3	10260.1	10316.7	10360.7	10323.0	10417.3
20°	9939.5	9889.2	9926.9	9955.2	10021.2	10102.9	10128.1	10043.2	10191.0	10442.4	10502.2
22.5°	9779.2	9744.6	9788.6	9788.6	9889.2	9876.6	9970.9	9917.5	10055.8	10348.1	10653.0
25°	9562.3	9565.4	9612.6	9669.2	9688.0	9829.5	9879.8	9948.9	10121.8	10470.7	10656.2
27.5°	9342.2	9323.4	9351.7	9468.0	9565.4	9669.2	9684.9	9920.6	10156.4	10395.3	10558.7
30°	9122.2	9103.3	9122.2	9207.1	9323.4	9392.5	9565.4	9879.8	10099.8	10263.3	10417.3
32.5°	8886.4	8867.6	8911.6	8974.5	9178.8	9188.2	9530.8	9826.3	9999.2	10118.7	10090.4
35°	8635.0	8609.8	8650.7	8748.1	8936.7	9005.9	9364.2	9584.3	9779.2	9835.8	9703.7
37.5°	8333.2	8289.2	8339.5	8474.7	8672.7	8873.9	9172.5	9427.1	9530.8	9380.0	9222.8
40°	8018.9	7987.4	8075.4	8144.6	8377.2	8657.0	8999.6	9178.8	9112.8	8939.9	8767.0
42.5°	7739.1	7673.1	7751.7	7883.7	8147.7	8465.2	8741.8	8842.4	8685.3	8430.6	8229.5
45°	7396.5	7317.9	7412.2	7588.2	7871.1	8232.6	8449.5	8414.9	8147.7	7927.7	7651.1
47.5°	7038.1	6943.8	7038.1	7248.7	7566.2	7949.7	8106.9	7949.7	7613.4	7336.7	7113.6
50°	6686.1	6576.0	6667.2	6984.7	7295.9	7591.4	7588.2	7283.3	7082.1	6780.4	6585.5
52.5°	6337.1	6180.0	6271.1	6616.9	6928.1	7264.4	7016.1	6733.2	6491.2	6227.1	6164.2
55°	5906.5	5736.7	5859.3	6362.3	6601.2	6799.2	6403.1	6154.8	5915.9	5783.9	5705.3
57.5°	5497.8	5312.4	5419.3	6013.4	6189.4	6239.7	5875.0	5523.0	5381.5	5337.5	5224.4
60°	5076.6	4866.0	4966.6	5651.9	5774.5	5570.1	5211.8	4938.3	4910.0	4822.0	4734.0
62.5°	4674.3	4441.7	4504.5	5202.4	5258.9	4888.0	4558.0	4485.7	4416.5	4328.5	4281.3
65°	4212.2	3970.1	4058.2	4724.6	4671.1	4193.3	4007.9	3992.1	3901.0	3828.7	3897.8
67.5°	3787.8	3501.8	3624.4	4202.8	3960.7	3570.9	3495.5	3457.8	3385.5	3426.3	2700.2
70°	3322.6	3011.4	3178.0	3640.1	3281.7	3024.0	2995.7	2939.1	2942.2	2338.7	1970.9
72.5°	2803.9	2533.6	2775.6	3024.0	2596.5	2521.0	2480.2	2473.9	1996.1	1622.0	1530.8
75°	2348.1	2074.7	2335.6	2429.9	2068.4	2018.1	2014.9	1666.0	1310.8	1251.1	1222.8
77.5°	1832.6	1622.0	1870.3	1728.9	1587.4	1530.8	1373.7	1031.0	987.0	946.2	355.2
80°	1235.4	1251.1	1395.7	1191.4	1131.6	965.0	760.7	729.3	628.7	251.5	198.0
82.5°	751.3	943.0	889.6	745.0	729.3	525.0	480.9	245.2	182.3	144.6	125.7
85°	389.8	477.8	458.9	405.5	301.8	270.3	150.9	116.3	94.3	72.3	59.7
87.5°	132.0	176.0	169.7	135.2	103.7	81.7	53.4	44.0	31.4	25.1	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10555.6	10555.6	10549.3	10555.6	10558.7	10552.5	10552.5	10558.7	10561.9	10565.0	10580.7
5°	10571.3	10577.6	10587.0	10605.9	10609.0	10646.8	10662.5	10671.9	10681.3	10684.5	10662.5
7.5°	10605.9	10627.9	10646.8	10643.6	10621.6	10561.9	10543.0	10527.3	10555.6	10627.9	10712.8
10°	10637.3	10536.7	10348.1	10605.9	10527.3	10599.6	10813.4	10860.5	11005.1	11209.4	11269.2
12.5°	10420.4	10697.1	10756.8	10467.6	11002.0	10803.9	11039.7	11247.2	11306.9	11514.3	11388.6
15°	10653.0	10788.2	10879.4	11168.6	11137.1	11306.9	11372.9	11332.0	11341.5	11394.9	11536.3
17.5°	10649.9	10920.2	10980.0	11174.9	11306.9	11310.0	11291.2	11272.3	11322.6	11363.5	11278.6
20°	10832.2	10920.2	11036.5	11115.1	11140.3	11171.7	11231.4	11184.3	11090.0	10998.8	10961.1
22.5°	10741.1	10939.1	11039.7	11052.3	11036.5	10939.1	10851.1	10719.1	10675.1	10627.9	10643.6
25°	10759.9	10851.1	10838.5	10788.2	10722.2	10539.9	10495.9	10439.3	10354.4	10150.1	9964.6
27.5°	10624.8	10577.6	10521.0	10398.4	10279.0	10181.5	10071.5	9889.2	9738.3	9518.3	9436.5
30°	10398.4	10209.8	10071.5	9999.2	9882.9	9719.5	9552.8	9329.7	9137.9	9093.9	9053.0
32.5°	9964.6	9779.2	9666.0	9490.0	9291.9	9097.1	8905.3	8817.3	8776.4	8782.7	8745.0
35°	9521.4	9358.0	9188.2	8924.2	8776.4	8581.5	8512.4	8493.5	8455.8	8414.9	8370.9
37.5°	9049.9	8858.2	8603.5	8446.4	8298.6	8220.0	8185.5	8157.2	8091.2	8018.9	7968.6
40°	8594.1	8248.3	8106.9	7952.8	7908.8	7874.3	7824.0	7754.8	7663.7	7651.1	7629.1
42.5°	7984.3	7736.0	7613.4	7581.9	7528.5	7468.8	7424.8	7349.3	7311.6	7336.7	7355.6
45°	7405.9	7280.2	7239.3	7201.6	7101.0	7016.1	6987.8	6962.7	6994.1	7132.4	6802.4
47.5°	6937.5	6887.2	6836.9	6774.1	6679.8	6616.9	6645.2	6670.3	6698.6	5683.3	5186.6
50°	6532.0	6462.9	6384.3	6315.1	6258.5	6252.3	6400.0	5956.8	4988.6	4963.5	4460.5
52.5°	6088.8	5985.1	5937.9	5897.1	5922.2	6016.5	4979.2	4620.8	4432.2	3850.7	3592.9
55°	5611.0	5519.8	5519.8	5557.6	5422.4	4394.5	4341.1	3753.2	3398.0	3297.4	3256.6
57.5°	5133.2	5123.8	5177.2	4734.0	3989.0	3825.5	3215.7	3086.8	3030.3	3017.7	2951.7
60°	4696.3	4784.3	4004.7	3684.1	3203.1	2888.8	2800.8	2785.1	2725.3	2703.3	2643.6
62.5°	4347.3	3605.5	3357.2	2741.1	2580.7	2539.9	2492.7	2470.7	2417.3	2134.4	625.5
65°	3140.3	2967.4	2407.9	2304.1	2291.6	2231.8	2213.0	1989.8	468.4	314.3	267.2
67.5°	2370.1	2102.9	2030.6	2011.8	1952.1	1832.6	543.8	311.2	267.2	232.6	204.3
70°	1820.0	1772.9	1719.5	1675.4	493.5	308.1	267.2	226.3	194.9	172.9	157.2
72.5°	1490.0	1458.5	848.7	323.8	264.0	223.2	198.0	172.9	150.9	138.3	125.7
75°	1166.2	323.8	267.2	223.2	191.7	163.5	144.6	128.9	116.3	106.9	97.4
77.5°	264.0	213.8	182.3	154.0	138.3	122.6	110.0	94.3	84.9	75.4	62.9
80°	163.5	141.5	119.4	110.0	94.3	78.6	69.2	62.9	50.3	47.2	40.9
82.5°	106.9	84.9	75.4	62.9	50.3	47.2	40.9	31.4	28.3	25.1	22.0
85°	47.2	40.9	34.6	28.3	22.0	18.9	15.7	12.6	12.6	12.6	12.6
87.5°	15.7	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10587.0	10643.6	10697.1	10681.3	10624.8	10536.7	10511.6	10477.0	10502.2	10555.6	10577.6
5°	10662.5	10631.0	10744.2	10910.8	11181.1	11206.3	11394.9	11438.9	11589.8	11684.1	11680.9
7.5°	10769.4	11215.7	11401.2	11602.4	11693.5	11671.5	11699.8	11677.8	11643.2	11627.5	11608.6
10°	11313.2	11652.7	11721.8	11721.8	11580.4	11388.6	11306.9	11165.4	10882.5	10888.8	10841.7
12.5°	11630.6	11750.1	11586.6	11448.3	10879.4	10659.3	10420.4	10307.3	10241.3	10140.7	10178.4
15°	11464.0	11294.3	11196.9	10750.5	10401.6	10005.5	10011.8	9942.6	9870.3	9876.6	9829.5
17.5°	11218.9	11083.7	10392.1	10084.1	9914.3	9760.3	9732.0	9640.9	9593.7	9578.0	9574.9
20°	10882.5	10395.3	9879.8	9804.3	9600.0	9424.0	9395.7	9424.0	9568.6	9310.8	8436.9
22.5°	10489.6	9788.6	9637.7	9424.0	9285.7	9216.5	9389.4	8603.5	7415.3	7559.9	7405.9
25°	9823.2	9518.3	9260.5	9097.1	9081.3	8657.0	7214.1	7063.3	6299.4	5890.8	5431.8
27.5°	9336.0	9203.9	8933.6	8905.3	8701.0	7079.0	6327.7	5497.8	5192.9	5145.8	5045.2
30°	9040.5	8851.9	8688.4	7974.9	6943.8	5699.0	5076.6	4960.3	4906.9	4850.3	4762.3
32.5°	8685.3	8506.1	8584.7	6704.9	5535.6	4906.9	4781.1	4696.3	4598.8	4561.1	4243.6
35°	8323.8	8242.0	6708.1	5636.1	4759.1	4608.3	4513.9	4425.9	3520.6	851.9	289.2
37.5°	7937.1	7918.3	6029.1	4677.4	4457.4	4315.9	4048.7	836.1	198.0	135.2	100.6
40°	7635.4	6032.2	4765.4	4385.1	4205.9	3982.7	559.5	138.3	88.0	53.4	34.6
42.5°	7434.2	5425.5	4265.6	4114.7	3725.0	411.8	141.5	59.7	34.6	28.3	22.0
45°	5730.5	4284.5	3985.9	3828.7	471.5	141.5	81.7	28.3	22.0	18.9	12.6
47.5°	5287.2	3891.6	3715.5	836.1	157.2	75.4	56.6	18.9	12.6	12.6	12.6
50°	4004.7	3596.1	2958.0	204.3	100.6	53.4	40.9	12.6	12.6	12.6	9.4
52.5°	3511.2	3319.5	317.5	135.2	78.6	40.9	25.1	9.4	9.4	9.4	9.4
55°	3209.4	2106.1	188.6	103.7	66.0	37.7	15.7	9.4	9.4	9.4	6.3
57.5°	2936.0	282.9	138.3	88.0	59.7	34.6	9.4	9.4	9.4	9.4	6.3
60°	2489.6	204.3	113.2	78.6	56.6	31.4	9.4	9.4	9.4	9.4	9.4
62.5°	323.8	160.3	97.4	69.2	40.9	25.1	6.3	9.4	9.4	9.4	9.4
65°	235.8	125.7	88.0	47.2	25.1	9.4	6.3	9.4	9.4	9.4	9.4
67.5°	182.3	103.7	66.0	40.9	22.0	6.3	6.3	9.4	9.4	9.4	9.4
70°	144.6	88.0	53.4	34.6	18.9	6.3	6.3	9.4	9.4	9.4	9.4
72.5°	113.2	62.9	37.7	18.9	12.6	6.3	6.3	9.4	9.4	9.4	9.4
75°	84.9	50.3	28.3	15.7	6.3	6.3	6.3	9.4	9.4	9.4	9.4
77.5°	56.6	31.4	22.0	12.6	12.6	12.6	15.7	15.7	9.4	9.4	9.4
80°	37.7	22.0	15.7	15.7	15.7	12.6	15.7	15.7	9.4	15.7	9.4
82.5°	18.9	15.7	15.7	12.6	12.6	9.4	12.6	12.6	12.6	12.6	9.4
85°	12.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	9.4
87.5°	6.3	6.3	6.3	6.3	9.4	9.4	9.4	9.4	12.6	12.6	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10549.3	10558.7	10533.6	10668.8	10599.6	10605.9	10634.2	10561.9	10577.6	10527.3	10492.7
5°	11693.5	11712.4	11731.2	11737.5	11750.1	11765.8	11747.0	11737.5	11718.7	11655.8	11589.8
7.5°	11514.3	11492.3	11482.9	11495.5	11517.5	11526.9	11511.2	11533.2	11614.9	11649.5	11671.5
10°	10571.3	10470.7	10539.9	10530.5	10451.9	10715.9	10643.6	10684.5	10712.8	11002.0	11178.0
12.5°	10121.8	10184.7	10065.2	10005.5	10084.1	10137.5	10191.0	10077.8	10235.0	10162.7	10395.3
15°	9744.6	9706.9	9694.3	9697.4	9681.7	9757.2	9776.0	9801.2	9823.2	9920.6	9958.4
17.5°	9574.9	9637.7	9662.9	9681.7	9650.3	9615.7	9581.1	9530.8	9546.6	9521.4	9593.7
20°	7849.1	7638.5	7625.9	7748.5	7613.4	7688.8	7871.1	9090.8	9049.9	9524.6	9364.2
22.5°	6550.9	6352.8	6183.1	6035.4	6246.0	6334.0	6673.5	7057.0	7679.4	7581.9	8257.8
25°	5350.1	5277.8	5233.8	5211.8	5227.5	5221.2	5296.7	5475.8	5758.7	6425.1	7286.4
27.5°	5004.3	4969.7	4954.0	4903.7	4941.5	4928.9	4988.6	5026.3	5111.2	5177.2	5457.0
30°	4730.8	4690.0	4661.7	4608.3	4646.0	4649.1	4668.0	4765.4	4800.0	4856.6	4944.6
32.5°	1728.9	1018.5	955.6	908.4	993.3	1295.1	2272.7	3973.3	4532.8	4576.8	4677.4
35°	169.7	141.5	125.7	125.7	128.9	141.5	188.6	496.7	908.4	3511.2	4394.5
37.5°	66.0	56.6	47.2	44.0	47.2	53.4	72.3	94.3	128.9	267.2	1191.4
40°	28.3	25.1	22.0	22.0	22.0	22.0	25.1	31.4	47.2	88.0	138.3
42.5°	18.9	15.7	15.7	15.7	15.7	15.7	15.7	15.7	22.0	28.3	56.6
45°	12.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	15.7	25.1
47.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6
50°	9.4	9.4	9.4	9.4	6.3	9.4	6.3	9.4	9.4	9.4	9.4
52.5°	9.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.4	9.4
55°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.4
57.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
62.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.4	9.4	6.3
65°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.4	6.3
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	9.4	9.4	6.3	9.4	6.3	6.3	9.4	9.4	9.4	6.3	6.3
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	18.9	18.9	12.6
75°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	15.7	18.9	15.7
77.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	15.7	15.7	15.7
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	12.6
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	12.6
85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10433.0	10429.9	10495.9	10546.2	10527.3	10546.2	10568.2	10571.3	10577.6	10552.5	10543.0
5°	11464.0	11366.6	11178.0	11042.8	10885.7	10599.6	10458.2	10473.9	10477.0	10467.6	10480.2
7.5°	11662.1	11652.7	11586.6	11558.4	11451.5	11247.2	10920.2	10863.7	10725.3	10637.3	10565.0
10°	11165.4	11391.7	11451.5	11552.1	11614.9	11577.2	11300.6	11259.7	11171.7	11071.1	11093.1
12.5°	10627.9	10813.4	10822.8	11369.7	11492.3	11504.9	11398.0	11454.6	11467.2	11240.9	11108.8
15°	9967.8	10055.8	10241.3	10750.5	11121.4	11354.0	11423.2	11454.6	11300.6	11291.2	11237.7
17.5°	9678.6	9735.2	9820.0	10106.1	10668.8	11011.4	11303.7	11281.7	11341.5	11297.4	11162.3
20°	9314.0	9361.1	9512.0	9656.6	9933.2	10389.0	10936.0	10976.8	11055.4	11046.0	11083.7
22.5°	9307.7	9141.1	9166.2	9279.4	9568.6	9977.2	10558.7	10693.9	10744.2	10778.8	10819.6
25°	7383.9	8707.3	8949.3	9021.6	9210.2	9449.1	10134.4	10184.7	10279.0	10433.0	10546.2
27.5°	6396.9	7295.9	8264.0	8767.0	8886.4	9084.5	9493.1	9568.6	9889.2	9926.9	10102.9
30°	5048.3	5743.0	7189.0	8399.2	8597.3	8735.6	9024.8	9175.6	9314.0	9464.8	9650.3
32.5°	4749.7	4859.7	5661.3	6950.1	8490.4	8386.6	8600.4	8691.6	8842.4	8974.5	9109.6
35°	4476.2	4551.7	4721.4	5692.7	6915.5	8100.6	8245.2	8304.9	8389.8	8490.4	8587.8
37.5°	4190.2	4303.3	4419.6	4680.6	6396.9	7874.3	7871.1	7940.3	7990.6	8075.4	8157.2
40°	760.7	3951.3	4139.9	4309.6	4960.3	6280.6	7519.1	7550.5	7585.1	7638.5	7723.4
42.5°	122.6	660.1	3879.0	4042.4	4227.9	5623.6	7358.7	7229.9	7207.9	7245.6	7321.0
45°	62.9	160.3	779.6	3775.2	3941.8	4485.7	6016.5	7006.7	6984.7	6912.4	6928.1
47.5°	47.2	100.6	191.7	1304.5	3690.4	3850.7	5551.3	5491.6	5909.6	6711.2	6588.6
50°	40.9	69.2	113.2	267.2	3259.7	3545.8	4275.0	4994.9	5214.9	5243.2	6205.1
52.5°	37.7	47.2	81.7	172.9	685.3	3278.6	3476.6	3728.1	4099.0	4894.3	4875.4
55°	34.6	44.0	69.2	116.3	238.9	2954.8	3159.1	3206.3	3284.9	3665.2	4168.2
57.5°	18.9	40.9	66.0	100.6	179.2	540.7	2866.8	2904.5	2967.4	2983.1	3162.3
60°	9.4	37.7	59.7	88.0	132.0	251.5	2577.6	2621.6	2659.3	2665.6	2722.2
62.5°	6.3	34.6	50.3	81.7	110.0	179.2	609.8	1244.8	2367.0	2367.0	2433.0
65°	6.3	25.1	31.4	53.4	100.6	147.7	257.8	298.6	581.5	1430.3	2134.4
67.5°	6.3	9.4	28.3	44.0	75.4	113.2	188.6	220.0	264.0	301.8	559.5
70°	6.3	6.3	25.1	28.3	47.2	84.9	135.2	154.0	179.2	204.3	235.8
72.5°	6.3	6.3	22.0	22.0	31.4	56.6	103.7	113.2	128.9	144.6	166.6
75°	15.7	12.6	18.9	18.9	22.0	44.0	78.6	88.0	94.3	106.9	122.6
77.5°	15.7	15.7	15.7	15.7	15.7	28.3	50.3	56.6	66.0	72.3	84.9
80°	12.6	12.6	12.6	15.7	15.7	18.9	31.4	34.6	37.7	47.2	50.3
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	18.9	22.0	28.3
85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.6	12.6	12.6	12.6
87.5°	9.4	9.4	9.4	6.3	6.3	9.4	9.4	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10539.9	10521.0	10505.3	10514.7	10486.4	10473.9	10483.3	10486.4	10492.7	10508.4	10511.6
5°	10511.6	10505.3	10533.6	10549.3	10543.0	10549.3	10549.3	10536.7	10517.9	10530.5	10502.2
7.5°	10492.7	10451.9	10420.4	10426.7	10395.3	10433.0	10467.6	10517.9	10533.6	10533.6	10502.2
10°	10816.5	10772.5	10596.5	10477.0	10398.4	10329.3	10492.7	10326.1	10404.7	10106.1	10448.7
12.5°	11083.7	11143.4	11064.8	10737.9	10681.3	10473.9	10593.3	10389.0	10329.3	9986.6	10096.7
15°	11190.6	11077.4	11052.3	10961.1	10838.5	10778.8	10458.2	10423.6	10326.1	10363.9	10219.3
17.5°	11096.3	11152.9	11077.4	11017.7	10891.9	10750.5	10558.7	10389.0	10253.8	9952.1	10206.7
20°	11005.1	11080.6	10854.2	10891.9	10904.5	10741.1	10640.5	10499.0	10329.3	10046.4	9826.3
22.5°	10854.2	10800.8	10819.6	10763.1	10715.9	10737.9	10599.6	10502.2	10216.1	10087.2	9788.6
25°	10609.0	10590.2	10640.5	10634.2	10521.0	10483.3	10414.1	10310.4	10197.3	9989.8	9744.6
27.5°	10209.8	10307.3	10395.3	10436.2	10376.4	10275.8	10238.1	10178.4	10099.8	9889.2	9706.9
30°	9788.6	9898.6	9999.2	10087.2	10140.7	10096.7	10062.1	10027.5	9908.1	9769.7	9565.4
32.5°	9307.7	9452.3	9590.6	9697.4	9813.8	9848.3	9823.2	9794.9	9694.3	9568.6	9405.1
35°	8751.3	8949.3	9150.5	9342.2	9392.5	9474.3	9556.0	9508.8	9455.4	9329.7	9178.8
37.5°	8279.8	8421.2	8565.8	8807.9	8983.9	9087.6	9232.2	9251.1	9159.9	9100.2	8902.2
40°	7792.5	7921.4	8132.0	8273.5	8515.5	8635.0	8789.0	8858.2	8836.2	8801.6	8628.7
42.5°	7409.0	7471.9	7610.2	7736.0	7974.9	8220.0	8355.2	8430.6	8509.2	8480.9	8392.9
45°	7000.4	7057.0	7104.1	7214.1	7446.8	7663.7	7830.3	7943.4	8084.9	8150.9	8044.0
47.5°	6594.9	6610.6	6667.2	6758.4	6896.7	7063.3	7343.0	7512.8	7644.8	7773.7	7704.5
50°	6283.7	6227.1	6236.5	6293.1	6406.3	6569.7	6770.9	7009.8	7160.7	7317.9	7333.6
52.5°	5491.6	5950.5	5840.5	5871.9	5931.6	6010.2	6220.8	6456.6	6642.0	6777.2	6912.4
55°	4608.3	4699.4	5582.7	5457.0	5494.7	5563.9	5661.3	5897.1	6076.2	6264.8	6453.4
57.5°	3574.1	4253.0	4287.6	5104.9	5086.1	5092.3	5174.1	5309.2	5488.4	5724.2	5884.5
60°	2778.8	3064.8	3621.2	3904.1	4620.8	4646.0	4693.1	4771.7	4925.7	5148.9	5403.5
62.5°	2451.9	2489.6	2687.6	3112.0	3577.2	4139.9	4240.5	4253.0	4322.2	4545.4	4840.9
65°	2153.2	2178.4	2238.1	2282.1	2671.9	3215.7	3699.8	3778.4	3822.4	3954.4	4205.9
67.5°	1483.7	1876.6	1930.1	1961.5	1999.2	2250.7	2851.1	3250.3	3300.6	3416.9	3636.9
70°	286.1	594.1	1625.1	1659.7	1678.6	1735.2	1832.6	2467.6	2800.8	2910.8	3011.4
72.5°	194.9	229.5	276.6	653.8	1383.1	1414.5	1436.5	1518.3	2080.9	2401.6	2455.0
75°	141.5	157.2	185.5	229.5	282.9	921.0	1141.1	1181.9	1222.8	1688.0	1958.3
77.5°	100.6	113.2	125.7	147.7	172.9	223.2	320.6	883.3	924.2	946.2	1336.0
80°	56.6	69.2	84.9	97.4	110.0	125.7	163.5	204.3	455.8	666.4	701.0
82.5°	31.4	37.7	44.0	53.4	59.7	75.4	91.2	110.0	144.6	213.8	452.7
85°	15.7	15.7	15.7	22.0	25.1	34.6	40.9	47.2	66.0	91.2	125.7
87.5°	9.4	9.4	12.6	12.6	12.6	15.7	15.7	15.7	18.9	28.3	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	10473.9	10473.9	10473.9	10473.9	10473.9
2.5°	10514.7	10505.3	10505.3	10543.0	10533.6
5°	10495.9	10486.4	10483.3	10524.2	10505.3
7.5°	10480.2	10445.6	10436.2	10473.9	10458.2
10°	10417.3	10392.1	10407.9	10395.3	10389.0
12.5°	10310.4	10294.7	10228.7	10235.0	10288.4
15°	10118.7	10181.5	10068.4	10169.0	10191.0
17.5°	9766.6	9908.1	10018.1	10077.8	10087.2
20°	9923.8	9970.9	9914.3	9917.5	9955.2
22.5°	9719.5	9741.5	9757.2	9738.3	9820.0
25°	9392.5	9307.7	9490.0	9527.7	9659.7
27.5°	9291.9	9222.8	9307.7	9301.4	9411.4
30°	9210.2	8987.0	9024.8	9084.5	9219.6
32.5°	9093.9	8741.8	8704.1	8836.2	8987.0
35°	8889.6	8556.4	8468.4	8553.2	8779.6
37.5°	8716.7	8298.6	8122.6	8235.8	8531.2
40°	8458.9	8097.4	7824.0	7924.6	8273.5
42.5°	8150.9	7924.6	7503.3	7572.5	7971.7
45°	7839.7	7638.5	7192.1	7226.7	7701.4
47.5°	7522.2	7336.7	6868.4	6874.7	7355.6
50°	7211.0	6965.8	6579.2	6469.2	6987.8
52.5°	6805.5	6579.2	6286.8	6107.7	6638.9
55°	6422.0	6167.4	5953.6	5677.0	6242.8
57.5°	6047.9	5765.0	5620.4	5265.2	5793.3
60°	5535.6	5400.4	5186.6	4847.2	5387.8
62.5°	5010.6	4966.6	4749.7	4397.6	4888.0
65°	4397.6	4501.4	4278.2	3976.4	4369.4
67.5°	3819.3	4004.7	3759.5	3574.1	3869.5
70°	3203.1	3416.9	3278.6	3212.6	3338.3
72.5°	2596.5	2803.9	2816.5	2769.4	2810.2
75°	2005.5	2235.0	2360.7	2288.4	2297.8
77.5°	1521.4	1631.4	1769.7	1826.3	1813.8
80°	939.9	1131.6	1244.8	1361.1	1320.2
82.5°	474.7	635.0	773.3	899.0	839.3
85°	198.0	254.6	355.2	468.4	449.5
87.5°	59.7	100.6	106.9	150.9	141.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)