

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-LD5-128SL-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-LD5-128SL-RM-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

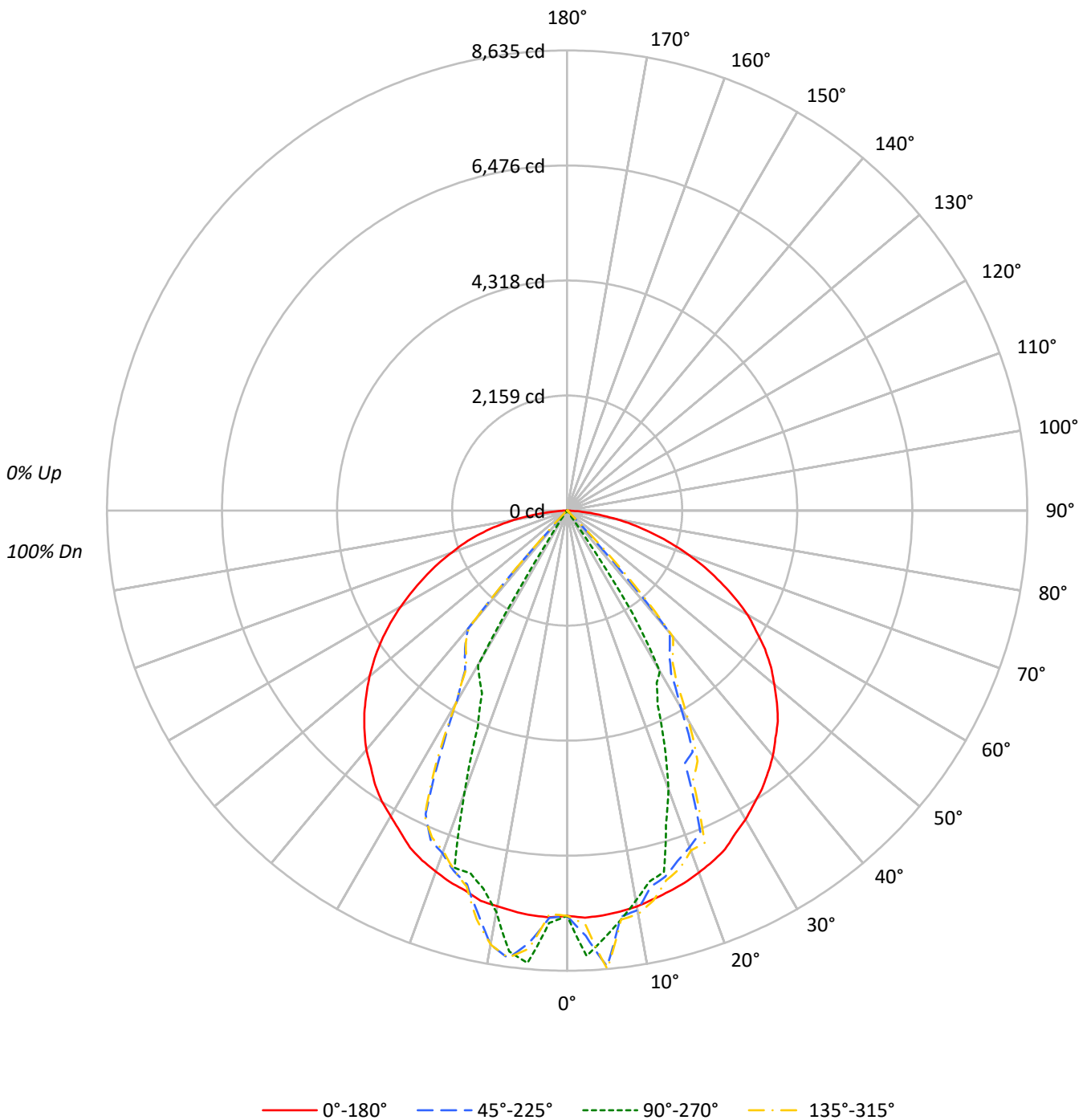
Lumens per Lamp: N/A
Luminaire Lumens: 10811.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 103
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°	30723	30723	30723	30723
5°	30891	31598	30882	33463
10°	30859	28593	30841	29419
15°	30819	26689	30743	26758
20°	30900	21021	30812	21280
25°	31038	15213	30887	14355
30°	30949	13345	30622	12828
35°	31099	294	30642	357
40°	31271	64	30522	64
45°	31456	38	30275	28
50°	31306	30	29869	30
55°	31230	21	29311	21
60°	30775	23	28369	23
65°	29344	36	27253	24
70°	27452	40	26135	40
75°	24608	44	25012	44
80°	20487	51	21656	51
85°	12835	60	13106	60



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.9	7.1
10°-20°	2080.8	19.2
20°-30°	2647.8	24.5
30°-40°	2236.7	20.7
40°-50°	1462.3	13.5
50°-60°	921.4	8.5
60°-70°	490.5	4.5
70°-80°	178.8	1.7
80°-90°	30.7	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°	5491.6	50.8
0°-40°	7728.3	71.5
0°-60°	10111.9	93.5
0°-90°	10811.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10811.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7604	7604	7604	7604	7604	
5°	7627	8046	7624	8521	7627	725
15°	7398	7022	7380	7040	7398	2092
25°	7013	4010	6978	3784	7013	3225
35°	6374	75	6280	91	6374	3987
45°	5591	9	5381	7	5591	4300
55°	4532	5	4254	5	4532	4038
65°	3172	7	2946	5	3172	3142
75°	1668	7	1696	7	1668	1771
85°	326	7	333	7	326	413
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7647.2	7651.7	7654.0	7658.6	7665.4	7667.7	7672.3	7667.7	7667.7	7667.7	7667.7
5°	7626.6	7635.8	7642.6	7651.7	7667.7	7670.0	7688.2	7690.5	7699.7	7717.9	7731.6
7.5°	7592.4	7601.5	7615.2	7638.0	7660.9	7686.0	7717.9	7752.1	7800.1	7845.7	7902.8
10°	7542.2	7553.6	7569.6	7590.1	7701.9	7717.9	7788.7	7886.8	7914.2	8057.9	8165.2
12.5°	7469.2	7508.0	7549.0	7567.3	7674.6	7843.4	8080.8	8032.8	7980.3	8450.4	8443.6
15°	7398.4	7450.9	7430.4	7578.7	7676.8	7971.2	7870.8	8085.3	8477.8	8382.0	8386.6
17.5°	7323.1	7334.5	7448.6	7571.9	7747.6	7898.2	8021.4	8315.8	8393.4	8400.2	8315.8
20°	7227.3	7282.0	7448.6	7560.4	7857.1	7927.9	8194.9	8345.5	8313.5	8235.9	8092.2
22.5°	7129.1	7295.7	7464.6	7622.1	7829.7	8019.1	8151.5	8222.2	8055.7	7749.9	7585.6
25°	7012.8	7110.9	7332.2	7562.7	7822.9	7932.4	8010.0	7895.9	7679.1	7405.3	7129.1
27.5°	6832.5	6989.9	7272.9	7533.1	7768.1	7900.5	7775.0	7501.1	7152.0	6971.7	6846.2
30°	6693.3	6898.7	7131.4	7382.4	7626.6	7704.2	7384.7	7072.1	6832.5	6652.2	6624.8
32.5°	6524.4	6816.5	7037.9	7277.5	7482.9	7380.2	7069.8	6665.9	6467.3	6398.9	6426.3
35°	6373.8	6595.1	6885.0	7120.0	7268.3	7037.9	6547.2	6296.2	6200.3	6239.1	6188.9
37.5°	6193.5	6485.6	6752.6	6955.7	6905.5	6558.6	6143.3	5983.5	5995.0	5963.0	5867.2
40°	6006.4	6284.8	6563.2	6754.9	6579.2	6049.7	5773.6	5739.4	5746.2	5643.5	5506.6
42.5°	5787.3	6040.6	6319.0	6492.4	6113.6	5700.6	5513.4	5518.0	5458.7	5314.9	5241.9
45°	5591.0	5823.8	6113.6	6129.6	5664.1	5319.5	5264.7	5205.4	5073.0	5025.1	4970.3
47.5°	5340.0	5597.9	5837.5	5750.8	5223.6	5009.1	4968.0	4838.0	4771.8	4735.3	4689.6
50°	5073.0	5333.2	5552.2	5305.8	4808.3	4758.1	4623.4	4520.8	4475.1	4436.3	4395.2
52.5°	4819.7	5034.2	5257.9	4833.4	4488.8	4440.9	4288.0	4228.6	4183.0	4139.6	4130.5
55°	4532.2	4721.6	4874.5	4383.8	4183.0	4071.2	3961.6	3920.6	3877.2	3856.7	3890.9
57.5°	4205.8	4420.3	4397.5	3941.1	3852.1	3690.1	3649.0	3621.6	3589.7	3603.4	3318.1
60°	3911.4	4075.8	3963.9	3617.1	3466.4	3356.9	3320.4	3302.1	3320.4	3042.0	2674.6
62.5°	3548.6	3733.4	3507.5	3238.2	3078.5	3026.0	2994.1	3019.2	2752.2	2446.4	2357.4
65°	3172.1	3372.9	3039.7	2832.0	2731.6	2686.0	2683.7	2471.5	2209.0	2090.4	2090.4
67.5°	2809.2	3016.9	2587.9	2414.4	2375.6	2380.2	2247.8	1926.1	1853.0	1773.2	1542.7
70°	2423.5	2606.1	2138.3	2033.3	2010.5	1994.5	1672.7	1586.0	1499.3	1287.1	1268.8
72.5°	2040.2	2129.2	1718.4	1693.3	1688.7	1403.5	1339.6	1191.2	1090.8	1065.7	1054.3
75°	1668.2	1640.8	1357.8	1380.6	1163.8	1063.4	960.7	874.0	860.3	851.2	212.2
77.5°	1316.7	1179.8	1070.3	931.1	833.0	707.4	686.9	673.2	442.7	159.7	130.1
80°	958.5	764.5	712.0	604.7	515.7	495.2	506.6	155.2	123.2	102.7	89.0
82.5°	609.3	488.4	399.4	349.2	340.0	148.3	109.5	89.0	77.6	66.2	54.8
85°	326.3	216.8	200.8	168.9	100.4	68.5	57.1	43.4	36.5	29.7	27.4
87.5°	102.7	86.7	70.7	57.1	34.2	22.8	18.3	16.0	13.7	11.4	11.4
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°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7663.1	7667.7	7665.4	7672.3	7672.3	7681.4	7688.2	7695.1	7708.8	7715.6	7768.1
5°	7761.3	7772.7	7806.9	7838.9	7877.7	7889.1	7955.2	7971.2	8048.8	8057.9	8313.5
7.5°	7980.3	8023.7	8105.9	8188.0	8270.2	8322.7	8413.9	8471.0	8532.6	8587.4	8790.5
10°	8245.1	8318.1	8398.0	8480.1	8528.0	8628.4	8683.2	8692.3	8676.4	8587.4	8258.8
12.5°	8505.2	8578.2	8544.0	8560.0	8617.0	8439.0	8464.1	8336.3	8425.3	7984.9	7658.6
15°	8468.7	8464.1	8379.7	8105.9	8151.5	7811.5	7674.6	7569.6	7654.0	7608.4	7558.2
17.5°	8359.2	8151.5	8005.4	7676.8	7537.6	7441.8	7444.1	7446.3	7405.3	7448.6	7320.8
20°	7895.9	7663.1	7446.3	7330.0	7288.9	7220.4	7254.7	7220.4	7222.7	7236.4	7040.1
22.5°	7279.8	7209.0	7083.5	7120.0	7106.3	7167.9	7122.3	7051.5	7074.4	6971.7	6823.3
25°	7031.0	6948.9	6944.3	6958.0	6937.4	6910.1	6869.0	6761.7	6754.9	6722.9	6654.5
27.5°	6780.0	6784.5	6798.2	6757.2	6684.1	6629.4	6567.8	6515.3	6535.8	6499.3	6405.7
30°	6606.5	6604.3	6522.1	6485.6	6351.0	6353.2	6337.3	6305.3	6284.8	6287.1	6227.7
32.5°	6360.1	6289.3	6195.8	6150.1	6138.7	6097.7	6065.7	6072.5	6088.5	6031.5	6093.1
35°	6106.8	5960.7	5947.0	5908.2	5871.7	5844.3	5855.8	5810.1	5807.8	5801.0	5298.9
37.5°	5766.8	5696.0	5689.2	5648.1	5623.0	5616.1	5572.8	5579.6	5600.2	5636.7	4518.5
40°	5486.1	5422.2	5406.2	5403.9	5349.1	5344.6	5356.0	5399.3	5429.0	5200.8	4306.2
42.5°	5184.8	5189.4	5139.2	5107.2	5114.1	5134.6	5189.4	5038.8	4365.6	4160.2	3936.5
45°	4927.0	4904.1	4876.8	4867.6	4927.0	4885.9	4283.4	3952.5	3872.6	3863.5	3236.0
47.5°	4657.7	4650.8	4639.4	4646.3	4308.5	3840.7	3703.8	3660.4	3674.1	3665.0	2779.5
50°	4386.1	4395.2	4395.2	3838.4	3523.5	3445.9	3457.3	3496.1	3254.2	3037.4	2590.1
52.5°	4151.1	4080.3	3496.1	3295.3	3224.5	3258.8	3176.6	2873.1	2654.0	2526.2	2396.2
55°	3715.2	3194.9	3064.8	3032.9	3058.0	2754.4	2567.3	2371.1	2314.0	2300.3	2225.0
57.5°	2923.3	2818.3	2829.7	2702.0	2412.1	2241.0	2165.7	2138.3	2113.2	2094.9	182.6
60°	2585.6	2615.2	2393.9	2120.0	2003.6	1980.8	1962.6	1937.5	1932.9	1901.0	116.4
62.5°	2366.5	2081.2	1889.5	1821.1	1793.7	1786.8	1752.6	1741.2	1478.8	203.1	86.7
65°	1784.6	1668.2	1631.7	1615.7	1586.0	1586.0	1316.7	207.7	168.9	146.1	77.6
67.5°	1456.0	1446.8	1428.6	1408.0	958.5	200.8	175.7	152.9	132.4	116.4	68.5
70°	1232.3	1227.7	1118.2	205.4	171.2	150.6	132.4	118.7	109.5	98.1	61.6
72.5°	1011.0	205.4	173.4	150.6	130.1	118.7	107.3	95.8	86.7	79.9	50.2
75°	157.5	139.2	123.2	111.8	102.7	91.3	82.2	75.3	73.0	63.9	34.2
77.5°	114.1	98.1	89.0	79.9	70.7	63.9	54.8	47.9	43.4	36.5	25.1
80°	79.9	70.7	63.9	52.5	45.6	38.8	34.2	29.7	27.4	22.8	11.4
82.5°	45.6	38.8	34.2	27.4	25.1	20.5	18.3	16.0	16.0	11.4	11.4
85°	20.5	20.5	16.0	13.7	11.4	11.4	11.4	9.1	9.1	6.8	6.8
87.5°	9.1	9.1	9.1	9.1	9.1	6.8	6.8	6.8	6.8	6.8	4.6
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°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7841.1	7870.8	7927.9	7987.2	7921.0	8158.3	8140.1	8220.0	8263.3	8283.9	8331.8
5°	8539.4	8671.8	8715.2	8585.1	8509.8	8432.2	8256.5	8124.1	8140.1	8096.7	7939.3
7.5°	8525.8	8242.8	7861.7	7688.2	7674.6	7654.0	7708.8	7740.7	7745.3	7743.0	7738.4
10°	7804.6	7658.6	7633.5	7610.7	7619.8	7535.3	7496.6	7387.0	7446.3	7414.4	7425.8
12.5°	7585.6	7551.3	7416.7	7229.6	7341.4	7256.9	7209.0	7241.0	7204.4	7170.2	7158.8
15°	7455.5	7234.1	7158.8	7113.2	7081.2	7063.0	7078.9	7042.4	7031.0	7024.2	7040.1
17.5°	7186.2	7097.2	7015.0	6894.1	6896.4	6889.5	6935.2	7003.6	7008.2	6656.8	6339.5
20°	6974.0	6900.9	6796.0	6720.7	6823.3	6640.8	5935.6	5600.2	5547.7	5547.7	5556.8
22.5°	6805.1	6643.1	6649.9	6531.2	5570.5	5374.2	5378.8	5399.3	5305.8	4986.3	4952.1
25°	6574.6	6549.5	6049.7	5228.2	5235.0	5082.1	4847.1	4516.2	4157.9	4157.9	4098.6
27.5°	6401.2	5869.4	5139.2	5105.0	4591.5	4267.4	4066.6	3763.1	3722.0	3683.2	3687.8
30°	6252.8	4965.8	4984.0	4267.4	3888.6	3619.3	3603.4	3553.2	3528.1	3521.2	3496.1
32.5°	4942.9	4835.7	4171.6	3633.0	3484.7	3441.3	3420.8	3363.7	3361.5	3318.1	3016.9
35°	4634.9	4244.6	3491.5	3345.5	3302.1	3261.1	3226.8	2165.7	255.6	102.7	89.0
37.5°	4283.4	3546.3	3229.1	3162.9	3121.9	2307.2	230.5	79.9	57.1	41.1	36.5
40°	3630.7	3167.5	3067.1	2994.1	1234.6	79.9	50.2	38.8	22.8	20.5	18.3
42.5°	3062.5	2984.9	2877.7	876.3	91.3	38.8	25.1	18.3	16.0	16.0	13.7
45°	2866.3	2797.8	1159.3	86.7	57.1	18.3	16.0	16.0	13.7	9.1	9.1
47.5°	2683.7	2361.9	105.0	54.8	36.5	16.0	13.7	9.1	9.1	9.1	6.8
50°	2489.7	130.1	73.0	41.1	22.8	9.1	9.1	9.1	9.1	6.8	6.8
52.5°	465.5	91.3	59.3	36.5	11.4	9.1	9.1	9.1	6.8	6.8	6.8
55°	109.5	73.0	54.8	31.9	9.1	9.1	9.1	6.8	6.8	6.8	4.6
57.5°	82.2	54.8	43.4	29.7	9.1	6.8	6.8	6.8	6.8	6.8	4.6
60°	68.5	38.8	34.2	27.4	6.8	6.8	6.8	6.8	6.8	6.8	4.6
62.5°	47.9	31.9	25.1	20.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	38.8	25.1	20.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	34.2	20.5	13.7	4.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	27.4	6.8	6.8	4.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	22.8	6.8	4.6	4.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	22.8	11.4	4.6	4.6	6.8	6.8	9.1	9.1	6.8	6.8	6.8
77.5°	16.0	11.4	4.6	4.6	6.8	6.8	9.1	9.1	6.8	6.8	6.8
80°	9.1	11.4	4.6	6.8	6.8	13.7	16.0	9.1	6.8	6.8	6.8
82.5°	9.1	11.4	13.7	13.7	6.8	11.4	13.7	11.4	9.1	6.8	6.8
85°	9.1	6.8	9.1	11.4	6.8	11.4	11.4	9.1	9.1	6.8	6.8
87.5°	4.6	6.8	6.8	9.1	9.1	9.1	11.4	9.1	9.1	9.1	6.8
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	8354.6	8363.7	8220.0	8169.8	8213.1	8204.0	8165.2	8021.4	8005.4	7909.6	7770.4
5°	7984.9	8046.5	7971.2	8101.3	8039.7	8101.3	8288.4	8375.1	8516.6	8603.3	8635.3
7.5°	7727.0	7740.7	7740.7	7752.1	7763.6	7765.8	7752.1	7743.0	7704.2	7656.3	7743.0
10°	7414.4	7430.4	7457.8	7453.2	7450.9	7498.8	7510.2	7608.4	7603.8	7622.1	7688.2
12.5°	7252.4	7129.1	7241.0	7211.3	7252.4	7188.5	7307.1	7286.6	7293.4	7348.2	7489.7
15°	6983.1	7021.9	7049.3	7049.3	7065.2	7051.5	7037.9	7131.4	7188.5	7190.8	7181.6
17.5°	6465.1	6170.7	6471.9	6394.3	7012.8	7028.7	6976.2	6932.9	6932.9	6967.1	7040.1
20°	5550.0	5556.8	5559.1	5588.8	5625.3	5623.0	5625.3	6524.4	6951.1	6853.0	6786.8
22.5°	4865.3	4780.9	4938.4	4927.0	5123.2	5340.0	5547.7	5527.1	5540.8	6175.2	6745.8
25°	3900.0	4009.6	3920.6	3959.4	4180.7	4438.6	4598.3	5016.0	5470.1	5438.1	5586.5
27.5°	3671.8	3642.2	3683.2	3683.2	3712.9	3747.1	3836.1	4071.2	4475.1	4899.6	5301.2
30°	3455.0	3480.1	3484.7	3525.8	3548.6	3571.4	3585.1	3674.1	3765.4	4059.8	4555.0
32.5°	2594.7	2275.2	2994.1	3188.0	3352.3	3391.1	3418.5	3455.0	3521.2	3564.6	3813.3
35°	75.3	75.3	79.9	91.3	116.4	785.0	2989.5	3295.3	3338.6	3393.4	3439.1
37.5°	36.5	27.4	31.9	34.2	41.1	57.1	82.2	255.6	2845.7	3217.7	3267.9
40°	16.0	16.0	16.0	16.0	18.3	22.8	34.2	57.1	86.7	2288.9	3087.6
42.5°	13.7	13.7	13.7	13.7	13.7	13.7	16.0	20.5	41.1	98.1	1620.3
45°	9.1	9.1	6.8	9.1	9.1	11.4	13.7	13.7	18.3	61.6	111.8
47.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	11.4	13.7	41.1	59.3
50°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	31.9	41.1
52.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	13.7	36.5
55°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8	6.8	9.1	31.9
57.5°	4.6	4.6	4.6	4.6	4.6	6.8	4.6	4.6	6.8	6.8	29.7
60°	4.6	4.6	4.6	4.6	4.6	6.8	6.8	6.8	6.8	6.8	27.4
62.5°	6.8	6.8	4.6	6.8	4.6	4.6	6.8	6.8	6.8	6.8	18.3
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	4.6	6.8
67.5°	6.8	6.8	6.8	6.8	4.6	6.8	4.6	6.8	6.8	4.6	4.6
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	4.6	4.6	4.6	4.6
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	4.6	4.6	4.6	4.6
75°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	4.6	4.6	4.6
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	11.4	13.7	11.4	11.4	4.6
80°	6.8	6.8	6.8	6.8	6.8	6.8	11.4	11.4	11.4	11.4	16.0
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1	9.1	11.4
85°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1	6.8	9.1
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	6.8	6.8	6.8
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7781.8	7704.2	7679.1	7626.6	7622.1	7626.6	7615.2	7599.2	7608.4	7592.4	7578.7
5°	8653.6	8445.9	8311.2	8131.0	7882.2	7827.4	7813.8	7736.2	7708.8	7699.7	7663.1
7.5°	7948.4	8327.2	8555.4	8633.0	8340.9	8272.4	8192.6	8128.7	8067.1	7950.7	7879.9
10°	7635.8	7654.0	7873.1	8128.7	8544.0	8601.1	8644.4	8505.2	8466.4	8169.8	8105.9
12.5°	7562.7	7565.0	7590.1	7745.3	8071.6	8108.1	8261.0	8343.2	8443.6	8500.7	8455.0
15°	7229.6	7414.4	7551.3	7565.0	7594.7	7658.6	7704.2	7989.5	8110.4	8434.5	8416.2
17.5°	7074.4	7133.7	7332.2	7494.3	7466.9	7444.1	7480.6	7519.4	7635.8	7959.8	7955.2
20°	6816.5	7005.9	7113.2	7282.0	7434.9	7441.8	7400.7	7377.9	7332.2	7384.7	7432.7
22.5°	6707.0	6736.6	6937.4	7056.1	7229.6	7291.2	7300.3	7302.6	7277.5	7250.1	7236.4
25°	6695.5	6602.0	6704.7	6853.0	6980.8	7047.0	7122.3	7147.4	7138.3	7138.3	7124.6
27.5°	5479.2	6572.3	6517.5	6615.7	6770.9	6816.5	6855.3	6932.9	6980.8	7015.0	7031.0
30°	5219.1	5415.3	6371.5	6385.2	6542.7	6538.1	6581.4	6645.3	6707.0	6786.8	6807.4
32.5°	4616.6	5098.1	5832.9	6154.7	6319.0	6335.0	6357.8	6376.1	6433.1	6522.1	6599.7
35°	3699.2	4644.0	4997.7	6045.2	6074.8	6106.8	6120.5	6163.8	6182.1	6218.6	6287.1
37.5°	3347.8	3838.4	4794.6	5228.2	5794.1	5821.5	5894.5	5912.8	5942.5	5972.1	6024.6
40°	3144.7	3279.3	3991.3	4669.1	5568.2	5586.5	5611.6	5657.2	5659.5	5693.7	5741.7
42.5°	2982.6	3069.4	3277.0	4459.1	5408.5	5406.2	5346.9	5376.5	5390.2	5426.7	5492.9
45°	2382.5	2880.0	3012.3	3642.2	4306.2	4616.6	5212.2	5114.1	5111.8	5125.5	5196.2
47.5°	120.9	2708.8	2802.4	3005.5	4066.6	4078.0	4155.6	4808.3	4908.7	4876.8	4883.6
50°	82.2	187.1	2610.7	2704.2	3505.2	3788.2	3845.3	3874.9	4251.5	4671.4	4602.9
52.5°	63.9	107.3	1599.7	2510.3	2848.0	3055.7	3423.1	3633.0	3655.9	3824.7	4397.5
55°	57.1	82.2	173.4	2316.3	2421.3	2466.9	2681.4	3048.8	3345.5	3434.5	3441.3
57.5°	50.2	75.3	118.7	1047.5	2202.2	2211.3	2247.8	2375.6	2642.6	2886.8	3162.9
60°	45.6	66.2	93.6	180.3	2001.4	2024.2	2031.0	2065.3	2097.2	2263.8	2581.0
62.5°	27.4	52.5	82.2	130.1	1583.7	1818.8	1816.5	1839.3	1869.0	1887.3	1951.2
65°	22.8	41.1	70.7	109.5	194.0	241.9	1469.6	1634.0	1652.2	1677.3	1688.7
67.5°	20.5	36.5	52.5	86.7	146.1	166.6	191.7	237.3	1296.2	1460.5	1483.3
70°	18.3	25.1	43.4	73.0	118.7	127.8	143.8	164.3	194.0	239.6	1173.0
72.5°	11.4	18.3	29.7	52.5	91.3	102.7	111.8	125.5	139.2	166.6	191.7
75°	4.6	13.7	25.1	38.8	70.7	77.6	84.4	93.6	105.0	123.2	136.9
77.5°	4.6	11.4	20.5	27.4	45.6	52.5	61.6	68.5	77.6	86.7	100.4
80°	16.0	9.1	13.7	20.5	31.9	34.2	38.8	43.4	50.2	57.1	66.2
82.5°	11.4	13.7	16.0	13.7	16.0	20.5	22.8	27.4	29.7	34.2	36.5
85°	9.1	9.1	11.4	11.4	11.4	11.4	11.4	11.4	13.7	16.0	20.5
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7578.7	7574.1	7560.4	7560.4	7558.2	7567.3	7574.1	7581.0	7578.7	7592.4	7578.7
5°	7635.8	7624.3	7603.8	7585.6	7578.7	7583.3	7576.4	7583.3	7574.1	7585.6	7565.0
7.5°	7793.2	7754.4	7674.6	7642.6	7601.5	7599.2	7578.7	7574.1	7560.4	7560.4	7535.3
10°	8071.6	7884.5	7861.7	7765.8	7731.6	7565.0	7601.5	7539.9	7533.1	7503.4	7492.0
12.5°	8299.8	8153.8	8110.4	8026.0	7930.1	7592.4	7667.7	7535.3	7528.5	7469.2	7407.6
15°	8304.4	8388.8	8270.2	8037.4	8016.9	7784.1	7631.2	7585.6	7526.2	7348.2	7377.9
17.5°	8037.4	8231.4	8288.4	8238.2	8092.2	7934.7	7720.2	7628.9	7450.9	7371.0	7316.3
20°	7603.8	7800.1	8044.2	8060.2	8151.5	8039.7	7759.0	7610.7	7396.1	7256.9	7211.3
22.5°	7259.2	7403.0	7683.7	7813.8	7925.6	7964.4	7786.4	7567.3	7300.3	7165.7	7138.3
25°	7076.7	7108.6	7193.0	7345.9	7592.4	7770.4	7795.5	7562.7	7423.5	7129.1	6974.0
27.5°	7010.5	6983.1	6948.9	7026.4	7211.3	7428.1	7571.9	7610.7	7263.8	6983.1	6827.9
30°	6841.6	6857.6	6805.1	6777.7	6898.7	7122.3	7377.9	7441.8	7174.8	6885.0	6707.0
32.5°	6633.9	6661.3	6670.4	6622.5	6597.4	6752.6	7028.7	7181.6	7167.9	6745.8	6547.2
35°	6373.8	6451.4	6471.9	6474.2	6433.1	6408.0	6567.8	6885.0	7005.9	6681.9	6394.3
37.5°	6099.9	6122.8	6234.6	6264.2	6264.2	6188.9	6307.6	6560.9	6729.8	6538.1	6207.2
40°	5757.6	5830.7	5935.6	5988.1	6040.6	6047.4	5981.3	6159.3	6437.7	6389.8	6031.5
42.5°	5508.9	5556.8	5620.7	5691.4	5798.7	5826.1	5757.6	5789.6	6079.4	6204.9	5803.3
45°	5219.1	5283.0	5301.2	5378.8	5490.6	5570.5	5568.2	5502.0	5734.8	5890.0	5636.7
47.5°	4922.4	4984.0	5016.0	5054.8	5136.9	5239.6	5296.6	5267.0	5312.6	5616.1	5415.3
50°	4616.6	4650.8	4714.7	4758.1	4812.9	4872.2	5009.1	5036.5	4972.6	5214.5	5171.1
52.5°	4326.8	4338.2	4381.5	4424.9	4497.9	4541.3	4650.8	4733.0	4728.4	4799.2	4899.6
55°	4100.9	4050.6	4059.8	4094.0	4141.9	4208.1	4269.7	4397.5	4440.9	4454.6	4614.3
57.5°	3204.0	3719.7	3765.4	3763.1	3820.2	3849.8	3906.9	3991.3	4146.5	4112.3	4290.3
60°	2911.9	2969.0	3400.3	3450.5	3471.0	3498.4	3566.9	3644.4	3758.5	3831.6	3909.2
62.5°	2220.4	2567.3	2697.4	3078.5	3137.8	3153.8	3199.4	3236.0	3354.6	3521.2	3489.3
65°	1718.4	1866.7	2263.8	2419.0	2743.0	2784.1	2848.0	2886.8	2921.0	3112.7	3121.9
67.5°	1485.6	1508.4	1615.7	1914.6	2120.0	2437.2	2476.0	2510.3	2562.7	2699.7	2784.1
70°	1268.8	1296.2	1325.9	1351.0	1618.0	1827.9	2122.3	2133.7	2168.0	2259.2	2450.9
72.5°	239.6	1084.0	1102.2	1118.2	1147.9	1287.1	1567.8	1796.0	1809.7	1853.0	2028.7
75°	162.0	189.4	260.2	894.6	924.2	933.4	981.3	1266.5	1476.5	1485.6	1563.2
77.5°	116.4	130.1	157.5	187.1	476.9	716.6	728.0	780.5	997.3	1154.7	1168.4
80°	79.9	89.0	105.0	118.7	146.1	191.7	529.4	545.4	572.8	789.6	830.7
82.5°	45.6	52.5	61.6	75.3	86.7	109.5	141.5	182.6	372.0	397.1	527.2
85°	22.8	25.1	29.7	36.5	43.4	52.5	70.7	86.7	118.7	214.5	221.4
87.5°	11.4	11.4	11.4	11.4	18.3	20.5	25.1	31.9	41.1	61.6	79.9
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7581.0	7612.9	7640.3	7647.2	7647.2	7651.7	7658.6	7663.1	7667.7	7672.3	7667.7
5°	7567.3	7601.5	7624.3	7631.2	7631.2	7644.9	7656.3	7670.0	7676.8	7676.8	7672.3
7.5°	7533.1	7558.2	7587.8	7606.1	7608.4	7631.2	7651.7	7649.4	7658.6	7663.1	7674.6
10°	7487.4	7487.4	7537.6	7551.3	7562.7	7587.8	7594.7	7608.4	7640.3	7644.9	7674.6
12.5°	7464.6	7441.8	7501.1	7508.0	7546.8	7514.8	7555.9	7569.6	7537.6	7581.0	7523.9
15°	7361.9	7389.3	7380.2	7400.7	7469.2	7432.7	7544.5	7508.0	7590.1	7492.0	7665.4
17.5°	7277.5	7272.9	7309.4	7327.7	7341.4	7419.0	7448.6	7489.7	7521.7	7494.3	7562.7
20°	7215.9	7179.3	7206.7	7227.3	7275.2	7334.5	7352.8	7291.2	7398.4	7581.0	7624.3
22.5°	7099.5	7074.4	7106.3	7106.3	7179.3	7170.2	7238.7	7199.9	7300.3	7512.5	7733.9
25°	6942.0	6944.3	6978.5	7019.6	7033.3	7136.0	7172.5	7222.7	7348.2	7601.5	7736.2
27.5°	6782.3	6768.6	6789.1	6873.5	6944.3	7019.6	7031.0	7202.2	7373.3	7546.8	7665.4
30°	6622.5	6608.8	6622.5	6684.1	6768.6	6818.8	6944.3	7172.5	7332.2	7450.9	7562.7
32.5°	6451.4	6437.7	6469.6	6515.3	6663.6	6670.4	6919.2	7133.7	7259.2	7345.9	7325.4
35°	6268.8	6250.5	6280.2	6351.0	6487.9	6538.1	6798.2	6958.0	7099.5	7140.5	7044.7
37.5°	6049.7	6017.8	6054.3	6152.4	6296.2	6442.2	6659.0	6843.9	6919.2	6809.7	6695.5
40°	5821.5	5798.7	5862.6	5912.8	6081.7	6284.8	6533.5	6663.6	6615.7	6490.2	6364.7
42.5°	5618.4	5570.5	5627.5	5723.4	5915.1	6145.6	6346.4	6419.4	6305.3	6120.5	5974.4
45°	5369.7	5312.6	5381.1	5508.9	5714.3	5976.7	6134.2	6109.1	5915.1	5755.3	5554.5
47.5°	5109.5	5041.1	5109.5	5262.4	5492.9	5771.3	5885.4	5771.3	5527.1	5326.3	5164.3
50°	4853.9	4774.1	4840.2	5070.7	5296.6	5511.2	5508.9	5287.5	5141.5	4922.4	4780.9
52.5°	4600.6	4486.5	4552.7	4803.7	5029.6	5273.8	5093.5	4888.2	4712.4	4520.8	4475.1
55°	4288.0	4164.8	4253.8	4618.9	4792.3	4936.1	4648.5	4468.3	4294.8	4199.0	4141.9
57.5°	3991.3	3856.7	3934.3	4365.6	4493.4	4529.9	4265.2	4009.6	3906.9	3874.9	3792.8
60°	3685.5	3532.6	3605.6	4103.1	4192.1	4043.8	3783.6	3585.1	3564.6	3500.7	3436.8
62.5°	3393.4	3224.5	3270.2	3776.8	3817.9	3548.6	3309.0	3256.5	3206.3	3142.4	3108.2
65°	3058.0	2882.2	2946.1	3429.9	3391.1	3044.3	2909.6	2898.2	2832.0	2779.5	2829.7
67.5°	2749.9	2542.2	2631.2	3051.1	2875.4	2592.4	2537.6	2510.3	2457.8	2487.4	1960.3
70°	2412.1	2186.2	2307.2	2642.6	2382.5	2195.3	2174.8	2133.7	2136.0	1697.8	1430.8
72.5°	2035.6	1839.3	2015.1	2195.3	1885.0	1830.2	1800.5	1796.0	1449.1	1177.5	1111.4
75°	1704.7	1506.2	1695.6	1764.0	1501.6	1465.1	1462.8	1209.5	951.6	908.3	887.7
77.5°	1330.4	1177.5	1357.8	1255.1	1152.4	1111.4	997.3	748.5	716.6	686.9	257.9
80°	896.8	908.3	1013.2	864.9	821.5	700.6	552.3	529.4	456.4	182.6	143.8
82.5°	545.4	684.6	645.8	540.8	529.4	381.1	349.2	178.0	132.4	105.0	91.3
85°	283.0	346.9	333.2	294.4	219.1	196.3	109.5	84.4	68.5	52.5	43.4
87.5°	95.8	127.8	123.2	98.1	75.3	59.3	38.8	31.9	22.8	18.3	16.0
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7663.1	7663.1	7658.6	7663.1	7665.4	7660.9	7660.9	7665.4	7667.7	7670.0	7681.4
5°	7674.6	7679.1	7686.0	7699.7	7701.9	7729.3	7740.7	7747.6	7754.4	7756.7	7740.7
7.5°	7699.7	7715.6	7729.3	7727.0	7711.1	7667.7	7654.0	7642.6	7663.1	7715.6	7777.2
10°	7722.5	7649.4	7512.5	7699.7	7642.6	7695.1	7850.3	7884.5	7989.5	8137.8	8181.2
12.5°	7565.0	7765.8	7809.2	7599.2	7987.2	7843.4	8014.6	8165.2	8208.6	8359.2	8267.9
15°	7733.9	7832.0	7898.2	8108.1	8085.3	8208.6	8256.5	8226.8	8233.7	8272.4	8375.1
17.5°	7731.6	7927.9	7971.2	8112.7	8208.6	8210.8	8197.1	8183.4	8220.0	8249.6	8188.0
20°	7864.0	7927.9	8012.3	8069.3	8087.6	8110.4	8153.8	8119.6	8051.1	7984.9	7957.5
22.5°	7797.8	7941.6	8014.6	8023.7	8012.3	7941.6	7877.7	7781.8	7749.9	7715.6	7727.0
25°	7811.5	7877.7	7868.5	7832.0	7784.1	7651.7	7619.8	7578.7	7517.1	7368.8	7234.1
27.5°	7713.3	7679.1	7638.0	7549.0	7462.3	7391.6	7311.7	7179.3	7069.8	6910.1	6850.7
30°	7549.0	7412.1	7311.7	7259.2	7174.8	7056.1	6935.2	6773.1	6633.9	6602.0	6572.3
32.5°	7234.1	7099.5	7017.3	6889.5	6745.8	6604.3	6465.1	6401.2	6371.5	6376.1	6348.7
35°	6912.3	6793.7	6670.4	6478.8	6371.5	6230.0	6179.8	6166.1	6138.7	6109.1	6077.1
37.5°	6570.0	6430.8	6246.0	6131.9	6024.6	5967.6	5942.5	5921.9	5874.0	5821.5	5785.0
40°	6239.1	5988.1	5885.4	5773.6	5741.7	5716.5	5680.0	5629.8	5563.6	5554.5	5538.5
42.5°	5796.4	5616.1	5527.1	5504.3	5465.5	5422.2	5390.2	5335.4	5308.1	5326.3	5340.0
45°	5376.5	5285.2	5255.6	5228.2	5155.2	5093.5	5073.0	5054.8	5077.6	5178.0	4938.4
47.5°	5036.5	5000.0	4963.5	4917.8	4849.4	4803.7	4824.3	4842.5	4863.1	4126.0	3765.4
50°	4742.1	4691.9	4634.9	4584.6	4543.6	4539.0	4646.3	4324.5	3621.6	3603.4	3238.2
52.5°	4420.3	4345.0	4310.8	4281.1	4299.4	4367.9	3614.8	3354.6	3217.7	2795.5	2608.4
55°	4073.5	4007.3	4007.3	4034.7	3936.5	3190.3	3151.5	2724.8	2466.9	2393.9	2364.2
57.5°	3726.6	3719.7	3758.5	3436.8	2895.9	2777.3	2334.5	2241.0	2199.9	2190.8	2142.8
60°	3409.4	3473.3	2907.3	2674.6	2325.4	2097.2	2033.3	2021.9	1978.5	1962.6	1919.2
62.5°	3156.1	2617.5	2437.2	1990.0	1873.6	1843.9	1809.7	1793.7	1754.9	1549.5	454.1
65°	2279.8	2154.3	1748.1	1672.7	1663.6	1620.3	1606.6	1444.5	340.0	228.2	194.0
67.5°	1720.7	1526.7	1474.2	1460.5	1417.2	1330.4	394.8	225.9	194.0	168.9	148.3
70°	1321.3	1287.1	1248.3	1216.3	358.3	223.6	194.0	164.3	141.5	125.5	114.1
72.5°	1081.7	1058.9	616.2	235.1	191.7	162.0	143.8	125.5	109.5	100.4	91.3
75°	846.6	235.1	194.0	162.0	139.2	118.7	105.0	93.6	84.4	77.6	70.7
77.5°	191.7	155.2	132.4	111.8	100.4	89.0	79.9	68.5	61.6	54.8	45.6
80°	118.7	102.7	86.7	79.9	68.5	57.1	50.2	45.6	36.5	34.2	29.7
82.5°	77.6	61.6	54.8	45.6	36.5	34.2	29.7	22.8	20.5	18.3	16.0
85°	34.2	29.7	25.1	20.5	16.0	13.7	11.4	9.1	9.1	9.1	9.1
87.5°	11.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	4.6	4.6
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7686.0	7727.0	7765.8	7754.4	7713.3	7649.4	7631.2	7606.1	7624.3	7663.1	7679.1
5°	7740.7	7717.9	7800.1	7921.0	8117.3	8135.5	8272.4	8304.4	8413.9	8482.4	8480.1
7.5°	7818.3	8142.4	8277.0	8423.1	8489.2	8473.3	8493.8	8477.8	8452.7	8441.3	8427.6
10°	8213.1	8459.6	8509.8	8509.8	8407.1	8267.9	8208.6	8105.9	7900.5	7905.0	7870.8
12.5°	8443.6	8530.3	8411.7	8311.2	7898.2	7738.4	7565.0	7482.9	7434.9	7361.9	7389.3
15°	8322.7	8199.4	8128.7	7804.6	7551.3	7263.8	7268.3	7218.1	7165.7	7170.2	7136.0
17.5°	8144.7	8046.5	7544.5	7320.8	7197.6	7085.8	7065.2	6999.1	6964.8	6953.4	6951.1
20°	7900.5	7546.8	7172.5	7117.7	6969.4	6841.6	6821.1	6841.6	6946.6	6759.4	6125.0
22.5°	7615.2	7106.3	6996.8	6841.6	6741.2	6691.0	6816.5	6246.0	5383.4	5488.3	5376.5
25°	7131.4	6910.1	6722.9	6604.3	6592.9	6284.8	5237.3	5127.8	4573.2	4276.6	3943.4
27.5°	6777.7	6681.9	6485.6	6465.1	6316.7	5139.2	4593.8	3991.3	3770.0	3735.7	3662.7
30°	6563.2	6426.3	6307.6	5789.6	5041.1	4137.4	3685.5	3601.1	3562.3	3521.2	3457.3
32.5°	6305.3	6175.2	6232.3	4867.6	4018.7	3562.3	3471.0	3409.4	3338.6	3311.3	3080.8
35°	6042.9	5983.5	4869.9	4091.7	3455.0	3345.5	3277.0	3213.1	2555.9	618.4	209.9
37.5°	5762.2	5748.5	4377.0	3395.7	3236.0	3133.3	2939.3	607.0	143.8	98.1	73.0
40°	5543.1	4379.3	3459.6	3183.5	3053.4	2891.4	406.2	100.4	63.9	38.8	25.1
42.5°	5397.1	3938.8	3096.7	2987.2	2704.2	298.9	102.7	43.4	25.1	20.5	16.0
45°	4160.2	3110.4	2893.6	2779.5	342.3	102.7	59.3	20.5	16.0	13.7	9.1
47.5°	3838.4	2825.2	2697.4	607.0	114.1	54.8	41.1	13.7	9.1	9.1	9.1
50°	2907.3	2610.7	2147.4	148.3	73.0	38.8	29.7	9.1	9.1	9.1	6.8
52.5°	2549.1	2409.9	230.5	98.1	57.1	29.7	18.3	6.8	6.8	6.8	6.8
55°	2330.0	1529.0	136.9	75.3	47.9	27.4	11.4	6.8	6.8	6.8	4.6
57.5°	2131.4	205.4	100.4	63.9	43.4	25.1	6.8	6.8	6.8	6.8	4.6
60°	1807.4	148.3	82.2	57.1	41.1	22.8	6.8	6.8	6.8	6.8	6.8
62.5°	235.1	116.4	70.7	50.2	29.7	18.3	4.6	6.8	6.8	6.8	6.8
65°	171.2	91.3	63.9	34.2	18.3	6.8	4.6	6.8	6.8	6.8	6.8
67.5°	132.4	75.3	47.9	29.7	16.0	4.6	4.6	6.8	6.8	6.8	6.8
70°	105.0	63.9	38.8	25.1	13.7	4.6	4.6	6.8	6.8	6.8	6.8
72.5°	82.2	45.6	27.4	13.7	9.1	4.6	4.6	6.8	6.8	6.8	6.8
75°	61.6	36.5	20.5	11.4	4.6	4.6	4.6	6.8	6.8	6.8	6.8
77.5°	41.1	22.8	16.0	9.1	9.1	9.1	11.4	11.4	6.8	6.8	6.8
80°	27.4	16.0	11.4	11.4	11.4	9.1	11.4	11.4	6.8	11.4	6.8
82.5°	13.7	11.4	11.4	9.1	9.1	6.8	9.1	9.1	9.1	9.1	6.8
85°	9.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	6.8
87.5°	4.6	4.6	4.6	4.6	6.8	6.8	6.8	6.8	9.1	9.1	6.8
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7658.6	7665.4	7647.2	7745.3	7695.1	7699.7	7720.2	7667.7	7679.1	7642.6	7617.5
5°	8489.2	8502.9	8516.6	8521.2	8530.3	8541.7	8528.0	8521.2	8507.5	8461.9	8413.9
7.5°	8359.2	8343.2	8336.3	8345.5	8361.4	8368.3	8356.9	8372.9	8432.2	8457.3	8473.3
10°	7674.6	7601.5	7651.7	7644.9	7587.8	7779.5	7727.0	7756.7	7777.2	7987.2	8115.0
12.5°	7348.2	7393.9	7307.1	7263.8	7320.8	7359.6	7398.4	7316.3	7430.4	7377.9	7546.8
15°	7074.4	7047.0	7037.9	7040.1	7028.7	7083.5	7097.2	7115.4	7131.4	7202.2	7229.6
17.5°	6951.1	6996.8	7015.0	7028.7	7005.9	6980.8	6955.7	6919.2	6930.6	6912.3	6964.8
20°	5698.3	5545.4	5536.3	5625.3	5527.1	5581.9	5714.3	6599.7	6570.0	6914.6	6798.2
22.5°	4755.8	4612.0	4488.8	4381.5	4534.4	4598.3	4844.8	5123.2	5575.1	5504.3	5995.0
25°	3884.1	3831.6	3799.6	3783.6	3795.1	3790.5	3845.3	3975.3	4180.7	4664.5	5289.8
27.5°	3633.0	3607.9	3596.5	3560.0	3587.4	3578.3	3621.6	3649.0	3710.6	3758.5	3961.6
30°	3434.5	3404.8	3384.3	3345.5	3372.9	3375.2	3388.9	3459.6	3484.7	3525.8	3589.7
32.5°	1255.1	739.4	693.7	659.5	721.1	940.2	1649.9	2884.5	3290.7	3322.7	3395.7
35°	123.2	102.7	91.3	91.3	93.6	102.7	136.9	360.6	659.5	2549.1	3190.3
37.5°	47.9	41.1	34.2	31.9	34.2	38.8	52.5	68.5	93.6	194.0	864.9
40°	20.5	18.3	16.0	16.0	16.0	16.0	18.3	22.8	34.2	63.9	100.4
42.5°	13.7	11.4	11.4	11.4	11.4	11.4	11.4	11.4	16.0	20.5	41.1
45°	9.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	11.4	18.3
47.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1
50°	6.8	6.8	6.8	6.8	4.6	6.8	4.6	6.8	6.8	6.8	6.8
52.5°	6.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8	6.8
55°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8
57.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8	6.8	4.6
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8	4.6
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	6.8	6.8	4.6	6.8	4.6	4.6	6.8	6.8	6.8	4.6	4.6
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	13.7	13.7	9.1
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	11.4	13.7	11.4
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	11.4	11.4	11.4
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7574.1	7571.9	7619.8	7656.3	7642.6	7656.3	7672.3	7674.6	7679.1	7660.9	7654.0
5°	8322.7	8251.9	8115.0	8016.9	7902.8	7695.1	7592.4	7603.8	7606.1	7599.2	7608.4
7.5°	8466.4	8459.6	8411.7	8391.1	8313.5	8165.2	7927.9	7886.8	7786.4	7722.5	7670.0
10°	8105.9	8270.2	8313.5	8386.6	8432.2	8404.8	8204.0	8174.3	8110.4	8037.4	8053.4
12.5°	7715.6	7850.3	7857.1	8254.2	8343.2	8352.3	8274.7	8315.8	8324.9	8160.6	8064.8
15°	7236.4	7300.3	7434.9	7804.6	8073.9	8242.8	8293.0	8315.8	8204.0	8197.1	8158.3
17.5°	7026.4	7067.5	7129.1	7336.8	7745.3	7994.0	8206.3	8190.3	8233.7	8201.7	8103.6
20°	6761.7	6796.0	6905.5	7010.5	7211.3	7542.2	7939.3	7968.9	8026.0	8019.1	8046.5
22.5°	6757.2	6636.2	6654.5	6736.6	6946.6	7243.2	7665.4	7763.6	7800.1	7825.2	7854.8
25°	5360.5	6321.3	6497.0	6549.5	6686.4	6859.9	7357.3	7393.9	7462.3	7574.1	7656.3
27.5°	4644.0	5296.6	5999.5	6364.7	6451.4	6595.1	6891.8	6946.6	7179.3	7206.7	7334.5
30°	3665.0	4169.3	5219.1	6097.7	6241.4	6341.8	6551.8	6661.3	6761.7	6871.3	7005.9
32.5°	3448.2	3528.1	4110.0	5045.6	6163.8	6088.5	6243.7	6309.9	6419.4	6515.3	6613.4
35°	3249.6	3304.4	3427.6	4132.8	5020.5	5880.9	5985.8	6029.2	6090.8	6163.8	6234.6
37.5°	3042.0	3124.1	3208.6	3398.0	4644.0	5716.5	5714.3	5764.5	5801.0	5862.6	5921.9
40°	552.3	2868.5	3005.5	3128.7	3601.1	4559.5	5458.7	5481.5	5506.6	5545.4	5607.0
42.5°	89.0	479.2	2816.1	2934.7	3069.4	4082.6	5342.3	5248.7	5232.8	5260.1	5314.9
45°	45.6	116.4	565.9	2740.7	2861.7	3256.5	4367.9	5086.7	5070.7	5018.2	5029.6
47.5°	34.2	73.0	139.2	947.1	2679.1	2795.5	4030.1	3986.8	4290.3	4872.2	4783.2
50°	29.7	50.2	82.2	194.0	2366.5	2574.2	3103.6	3626.2	3785.9	3806.5	4504.8
52.5°	27.4	34.2	59.3	125.5	497.5	2380.2	2524.0	2706.5	2975.8	3553.2	3539.5
55°	25.1	31.9	50.2	84.4	173.4	2145.1	2293.5	2327.7	2384.7	2660.9	3026.0
57.5°	13.7	29.7	47.9	73.0	130.1	392.5	2081.2	2108.6	2154.3	2165.7	2295.7
60°	6.8	27.4	43.4	63.9	95.8	182.6	1871.3	1903.2	1930.6	1935.2	1976.3
62.5°	4.6	25.1	36.5	59.3	79.9	130.1	442.7	903.7	1718.4	1718.4	1766.3
65°	4.6	18.3	22.8	38.8	73.0	107.3	187.1	216.8	422.2	1038.3	1549.5
67.5°	4.6	6.8	20.5	31.9	54.8	82.2	136.9	159.7	191.7	219.1	406.2
70°	4.6	4.6	18.3	20.5	34.2	61.6	98.1	111.8	130.1	148.3	171.2
72.5°	4.6	4.6	16.0	16.0	22.8	41.1	75.3	82.2	93.6	105.0	120.9
75°	11.4	9.1	13.7	13.7	16.0	31.9	57.1	63.9	68.5	77.6	89.0
77.5°	11.4	11.4	11.4	11.4	11.4	20.5	36.5	41.1	47.9	52.5	61.6
80°	9.1	9.1	9.1	11.4	11.4	13.7	22.8	25.1	27.4	34.2	36.5
82.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	13.7	16.0	20.5
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1	9.1
87.5°	6.8	6.8	6.8	4.6	4.6	6.8	6.8	6.8	6.8	6.8	6.8
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7651.7	7638.0	7626.6	7633.5	7612.9	7603.8	7610.7	7612.9	7617.5	7628.9	7631.2
5°	7631.2	7626.6	7647.2	7658.6	7654.0	7658.6	7658.6	7649.4	7635.8	7644.9	7624.3
7.5°	7617.5	7587.8	7565.0	7569.6	7546.8	7574.1	7599.2	7635.8	7647.2	7647.2	7624.3
10°	7852.6	7820.6	7692.8	7606.1	7549.0	7498.8	7617.5	7496.6	7553.6	7336.8	7585.6
12.5°	8046.5	8089.9	8032.8	7795.5	7754.4	7603.8	7690.5	7542.2	7498.8	7250.1	7330.0
15°	8124.1	8042.0	8023.7	7957.5	7868.5	7825.2	7592.4	7567.3	7496.6	7523.9	7419.0
17.5°	8055.7	8096.7	8042.0	7998.6	7907.3	7804.6	7665.4	7542.2	7444.1	7225.0	7409.8
20°	7989.5	8044.2	7879.9	7907.3	7916.4	7797.8	7724.8	7622.1	7498.8	7293.4	7133.7
22.5°	7879.9	7841.1	7854.8	7813.8	7779.5	7795.5	7695.1	7624.3	7416.7	7323.1	7106.3
25°	7701.9	7688.2	7724.8	7720.2	7638.0	7610.7	7560.4	7485.1	7403.0	7252.4	7074.4
27.5°	7412.1	7482.9	7546.8	7576.4	7533.1	7460.0	7432.7	7389.3	7332.2	7179.3	7047.0
30°	7106.3	7186.2	7259.2	7323.1	7361.9	7330.0	7304.9	7279.8	7193.0	7092.6	6944.3
32.5°	6757.2	6862.1	6962.5	7040.1	7124.6	7149.7	7131.4	7110.9	7037.9	6946.6	6827.9
35°	6353.2	6497.0	6643.1	6782.3	6818.8	6878.1	6937.4	6903.2	6864.4	6773.1	6663.6
37.5°	6010.9	6113.6	6218.6	6394.3	6522.1	6597.4	6702.4	6716.1	6649.9	6606.5	6462.8
40°	5657.2	5750.8	5903.7	6006.4	6182.1	6268.8	6380.6	6430.8	6414.9	6389.8	6264.2
42.5°	5378.8	5424.4	5524.9	5616.1	5789.6	5967.6	6065.7	6120.5	6177.5	6157.0	6093.1
45°	5082.1	5123.2	5157.4	5237.3	5406.2	5563.6	5684.6	5766.8	5869.4	5917.4	5839.8
47.5°	4787.8	4799.2	4840.2	4906.4	5006.8	5127.8	5330.9	5454.1	5550.0	5643.5	5593.3
50°	4561.8	4520.8	4527.6	4568.7	4650.8	4769.5	4915.5	5089.0	5198.5	5312.6	5324.0
52.5°	3986.8	4319.9	4240.1	4262.9	4306.2	4363.3	4516.2	4687.3	4822.0	4920.1	5018.2
55°	3345.5	3411.7	4052.9	3961.6	3989.0	4039.2	4110.0	4281.1	4411.2	4548.1	4685.1
57.5°	2594.7	3087.6	3112.7	3706.1	3692.4	3696.9	3756.3	3854.4	3984.5	4155.6	4272.0
60°	2017.3	2225.0	2628.9	2834.3	3354.6	3372.9	3407.1	3464.2	3576.0	3738.0	3922.9
62.5°	1780.0	1807.4	1951.2	2259.2	2597.0	3005.5	3078.5	3087.6	3137.8	3299.9	3514.4
65°	1563.2	1581.5	1624.8	1656.8	1939.7	2334.5	2686.0	2743.0	2775.0	2870.8	3053.4
67.5°	1077.1	1362.4	1401.2	1424.0	1451.4	1634.0	2069.8	2359.6	2396.2	2480.6	2640.3
70°	207.7	431.3	1179.8	1204.9	1218.6	1259.7	1330.4	1791.4	2033.3	2113.2	2186.2
72.5°	141.5	166.6	200.8	474.7	1004.1	1026.9	1042.9	1102.2	1510.7	1743.5	1782.3
75°	102.7	114.1	134.6	166.6	205.4	668.6	828.4	858.1	887.7	1225.5	1421.7
77.5°	73.0	82.2	91.3	107.3	125.5	162.0	232.8	641.3	670.9	686.9	969.9
80°	41.1	50.2	61.6	70.7	79.9	91.3	118.7	148.3	330.9	483.8	508.9
82.5°	22.8	27.4	31.9	38.8	43.4	54.8	66.2	79.9	105.0	155.2	328.6
85°	11.4	11.4	11.4	16.0	18.3	25.1	29.7	34.2	47.9	66.2	91.3
87.5°	6.8	6.8	9.1	9.1	9.1	11.4	11.4	11.4	13.7	20.5	29.7
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-LD5-128SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	7603.8	7603.8	7603.8	7603.8	7603.8
2.5°	7633.5	7626.6	7626.6	7654.0	7647.2
5°	7619.8	7612.9	7610.7	7640.3	7626.6
7.5°	7608.4	7583.3	7576.4	7603.8	7592.4
10°	7562.7	7544.5	7555.9	7546.8	7542.2
12.5°	7485.1	7473.7	7425.8	7430.4	7469.2
15°	7345.9	7391.6	7309.4	7382.4	7398.4
17.5°	7090.3	7193.0	7272.9	7316.3	7323.1
20°	7204.4	7238.7	7197.6	7199.9	7227.3
22.5°	7056.1	7072.1	7083.5	7069.8	7129.1
25°	6818.8	6757.2	6889.5	6916.9	7012.8
27.5°	6745.8	6695.5	6757.2	6752.6	6832.5
30°	6686.4	6524.4	6551.8	6595.1	6693.3
32.5°	6602.0	6346.4	6319.0	6414.9	6524.4
35°	6453.7	6211.8	6147.9	6209.5	6373.8
37.5°	6328.1	6024.6	5896.8	5979.0	6193.5
40°	6141.0	5878.6	5680.0	5753.1	6006.4
42.5°	5917.4	5753.1	5447.3	5497.5	5787.3
45°	5691.4	5545.4	5221.3	5246.4	5591.0
47.5°	5461.0	5326.3	4986.3	4990.9	5340.0
50°	5235.0	5057.0	4776.3	4696.5	5073.0
52.5°	4940.6	4776.3	4564.1	4434.0	4819.7
55°	4662.2	4477.4	4322.2	4121.4	4532.2
57.5°	4390.7	4185.3	4080.3	3822.4	4205.8
60°	4018.7	3920.6	3765.4	3518.9	3911.4
62.5°	3637.6	3605.6	3448.2	3192.6	3548.6
65°	3192.6	3267.9	3105.9	2886.8	3172.1
67.5°	2772.7	2907.3	2729.3	2594.7	2809.2
70°	2325.4	2480.6	2380.2	2332.3	2423.5
72.5°	1885.0	2035.6	2044.7	2010.5	2040.2
75°	1456.0	1622.5	1713.8	1661.3	1668.2
77.5°	1104.5	1184.4	1284.8	1325.9	1316.7
80°	682.3	821.5	903.7	988.1	958.5
82.5°	344.6	461.0	561.4	652.7	609.3
85°	143.8	184.8	257.9	340.0	326.3
87.5°	43.4	73.0	77.6	109.5	102.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)