

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-LD5-130HL-RM-UNV-L935-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-LD5-130HL-RM-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

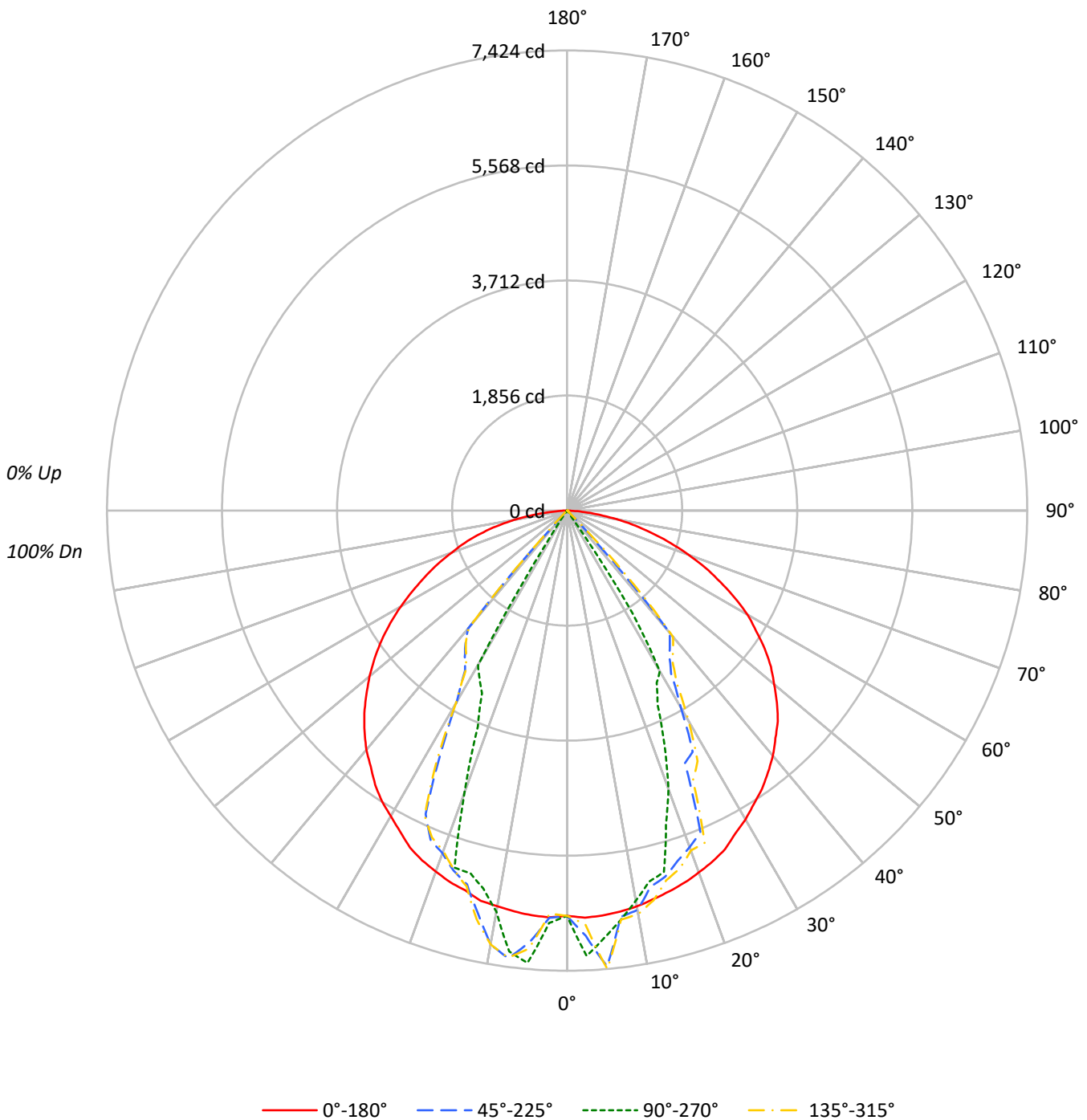
Lumens per Lamp: N/A
Luminaire Lumens: 9295.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 86
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°	26412	26412	26412	26412
5°	26557	27165	26549	28767
10°	26530	24581	26513	25291
15°	26495	22944	26429	23004
20°	26565	18072	26489	18294
25°	26683	13078	26553	12341
30°	26607	11472	26325	11029
35°	26735	253	26343	307
40°	26883	55	26240	55
45°	27043	32	26028	25
50°	26913	26	25678	26
55°	26848	18	25198	18
60°	26457	19	24389	19
65°	25227	31	23430	21
70°	23601	34	22467	34
75°	21155	38	21503	38
80°	17612	44	18619	44
85°	11033	52	11265	52



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.8	7.1
10°-20°	1788.9	19.2
20°-30°	2276.3	24.5
30°-40°	1922.9	20.7
40°-50°	1257.1	13.5
50°-60°	792.1	8.5
60°-70°	421.7	4.5
70°-80°	153.7	1.7
80°-90°	26.4	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°	4721.1	50.8
0°-40°	6643.9	71.5
0°-60°	8693.2	93.5
0°-90°	9295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9295.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6537	6537	6537	6537	6537	
5°	6557	6918	6555	7326	6557	623
15°	6360	6037	6345	6052	6360	1798
25°	6029	3447	5999	3253	6029	2772
35°	5480	65	5399	78	5480	3428
45°	4807	8	4626	6	4807	3696
55°	3896	4	3657	4	3896	3472
65°	2727	6	2533	4	2727	2701
75°	1434	6	1458	6	1434	1522
85°	280	6	286	6	280	355
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6574.2	6578.1	6580.1	6584.0	6589.9	6591.9	6595.8	6591.9	6591.9	6591.9	6591.9
5°	6556.6	6564.4	6570.3	6578.1	6591.9	6593.8	6609.5	6611.5	6619.3	6635.0	6646.8
7.5°	6527.1	6535.0	6546.7	6566.4	6586.0	6607.6	6635.0	6664.5	6705.7	6744.9	6793.9
10°	6484.0	6493.8	6507.5	6525.2	6621.3	6635.0	6695.9	6780.2	6803.8	6927.4	7019.6
12.5°	6421.2	6454.5	6489.9	6505.5	6597.8	6742.9	6947.0	6905.8	6860.6	7264.8	7258.9
15°	6360.4	6405.5	6387.8	6515.4	6599.7	6852.8	6766.5	6950.9	7288.3	7205.9	7209.9
17.5°	6295.6	6305.4	6403.5	6509.5	6660.5	6790.0	6896.0	7149.0	7215.7	7221.6	7149.0
20°	6213.2	6260.3	6403.5	6499.7	6754.7	6815.5	7045.1	7174.5	7147.1	7080.4	6956.8
22.5°	6128.9	6272.1	6417.3	6552.6	6731.2	6894.0	7007.8	7068.6	6925.4	6662.5	6521.2
25°	6028.8	6113.2	6303.5	6501.6	6725.3	6819.4	6886.2	6788.1	6601.7	6366.3	6128.9
27.5°	5873.8	6009.2	6252.5	6476.1	6678.2	6792.0	6684.1	6448.7	6148.5	5993.5	5885.6
30°	5754.2	5930.7	6130.8	6346.6	6556.6	6623.3	6348.6	6079.8	5873.8	5718.8	5695.3
32.5°	5609.0	5860.1	6050.4	6256.4	6433.0	6344.7	6077.9	5730.6	5559.9	5501.1	5524.6
35°	5479.5	5669.8	5919.0	6121.0	6248.5	6050.4	5628.6	5412.8	5330.4	5363.7	5320.6
37.5°	5324.5	5575.6	5805.2	5979.8	5936.6	5638.4	5281.3	5144.0	5153.8	5126.4	5044.0
40°	5163.6	5403.0	5642.3	5807.1	5656.1	5200.9	4963.5	4934.1	4940.0	4851.7	4734.0
42.5°	4975.3	5193.1	5432.4	5581.5	5255.8	4900.7	4739.9	4743.8	4692.8	4569.2	4506.4
45°	4806.6	5006.7	5255.8	5269.6	4869.4	4573.1	4526.0	4475.0	4361.2	4320.0	4272.9
47.5°	4590.8	4812.5	5018.5	4943.9	4490.7	4306.3	4271.0	4159.2	4102.3	4070.9	4031.6
50°	4361.2	4584.9	4773.2	4561.3	4133.7	4090.5	3974.7	3886.5	3847.2	3813.9	3778.6
52.5°	4143.5	4327.9	4520.1	4155.2	3859.0	3817.8	3686.3	3635.3	3596.1	3558.8	3551.0
55°	3896.3	4059.1	4190.5	3768.7	3596.1	3500.0	3405.8	3370.5	3333.2	3315.6	3345.0
57.5°	3615.7	3800.1	3780.5	3388.1	3311.6	3172.3	3137.0	3113.5	3086.0	3097.8	2852.6
60°	3362.6	3503.9	3407.8	3109.6	2980.1	2885.9	2854.5	2838.8	2854.5	2615.2	2299.3
62.5°	3050.7	3209.6	3015.4	2783.9	2646.6	2601.4	2574.0	2595.5	2366.0	2103.1	2026.6
65°	2727.0	2899.6	2613.2	2434.7	2348.4	2309.1	2307.2	2124.7	1899.1	1797.1	1797.1
67.5°	2415.1	2593.6	2224.8	2075.7	2042.3	2046.2	1932.4	1655.8	1593.0	1524.4	1326.2
70°	2083.5	2240.5	1838.3	1748.0	1728.4	1714.7	1438.0	1363.5	1288.9	1106.5	1090.8
72.5°	1753.9	1830.4	1477.3	1455.7	1451.8	1206.5	1151.6	1024.1	937.8	916.2	906.4
75°	1434.1	1410.6	1167.3	1186.9	1000.6	914.2	825.9	751.4	739.6	731.8	182.5
77.5°	1132.0	1014.3	920.1	800.4	716.1	608.2	590.5	578.8	380.6	137.3	111.8
80°	824.0	657.2	612.1	519.9	443.4	425.7	435.5	133.4	105.9	88.3	76.5
82.5°	523.8	419.8	343.3	300.2	292.3	127.5	94.2	76.5	66.7	56.9	47.1
85°	280.5	186.4	172.6	145.2	86.3	58.9	49.0	37.3	31.4	25.5	23.5
87.5°	88.3	74.6	60.8	49.0	29.4	19.6	15.7	13.7	11.8	9.8	9.8
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°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6587.9	6591.9	6589.9	6595.8	6595.8	6603.6	6609.5	6615.4	6627.2	6633.1	6678.2
5°	6672.3	6682.1	6711.5	6739.0	6772.4	6782.2	6839.1	6852.8	6919.5	6927.4	7147.1
7.5°	6860.6	6897.9	6968.5	7039.2	7109.8	7154.9	7233.4	7282.4	7335.4	7382.5	7557.1
10°	7088.2	7151.0	7219.7	7290.3	7331.5	7417.8	7464.9	7472.7	7459.0	7382.5	7100.0
12.5°	7311.9	7374.7	7345.2	7359.0	7408.0	7255.0	7276.6	7166.7	7243.2	6864.6	6584.0
15°	7280.5	7276.6	7204.0	6968.5	7007.8	6715.5	6597.8	6507.5	6580.1	6540.9	6497.7
17.5°	7186.3	7007.8	6882.2	6599.7	6480.0	6397.6	6399.6	6401.6	6366.3	6403.5	6293.7
20°	6788.1	6587.9	6401.6	6301.5	6266.2	6207.3	6236.8	6207.3	6209.3	6221.1	6052.4
22.5°	6258.4	6197.5	6089.6	6121.0	6109.3	6162.2	6123.0	6062.2	6081.8	5993.5	5866.0
25°	6044.5	5973.9	5970.0	5981.7	5964.1	5940.5	5905.2	5813.0	5807.1	5779.7	5720.8
27.5°	5828.7	5832.6	5844.4	5809.1	5746.3	5699.2	5646.3	5601.1	5618.8	5587.4	5507.0
30°	5679.6	5677.6	5607.0	5575.6	5459.9	5461.8	5448.1	5420.6	5403.0	5404.9	5353.9
32.5°	5467.7	5406.9	5326.5	5287.2	5277.4	5242.1	5214.6	5220.5	5234.3	5185.2	5238.2
35°	5250.0	5124.4	5112.6	5079.3	5047.9	5024.3	5034.1	4994.9	4993.0	4987.1	4555.5
37.5°	4957.6	4896.8	4890.9	4855.6	4834.0	4828.2	4790.9	4796.8	4814.4	4845.8	3884.5
40°	4716.3	4661.4	4647.7	4645.7	4598.6	4594.7	4604.5	4641.8	4667.3	4471.1	3702.0
42.5°	4457.4	4461.3	4418.1	4390.7	4396.5	4414.2	4461.3	4331.8	3753.1	3576.5	3384.2
45°	4235.7	4216.1	4192.5	4184.7	4235.7	4200.4	3682.4	3398.0	3329.3	3321.4	2781.9
47.5°	4004.2	3998.3	3988.5	3994.4	3704.0	3301.8	3184.1	3146.8	3158.6	3150.8	2389.6
50°	3770.7	3778.6	3778.6	3299.9	3029.1	2962.4	2972.2	3005.6	2797.6	2611.2	2226.7
52.5°	3568.6	3507.8	3005.6	2832.9	2772.1	2801.5	2730.9	2470.0	2281.7	2171.8	2060.0
55°	3193.9	2746.6	2634.8	2607.3	2628.9	2368.0	2207.1	2038.4	1989.3	1977.6	1912.8
57.5°	2513.2	2422.9	2432.7	2322.8	2073.7	1926.6	1861.8	1838.3	1816.7	1801.0	156.9
60°	2222.8	2248.3	2058.0	1822.6	1722.5	1702.9	1687.2	1665.6	1661.7	1634.2	100.1
62.5°	2034.5	1789.2	1624.4	1565.6	1542.0	1536.1	1506.7	1496.9	1271.3	174.6	74.6
65°	1534.2	1434.1	1402.7	1389.0	1363.5	1363.5	1132.0	178.5	145.2	125.6	66.7
67.5°	1251.7	1243.8	1228.1	1210.5	824.0	172.6	151.1	131.4	113.8	100.1	58.9
70°	1059.4	1055.5	961.3	176.6	147.1	129.5	113.8	102.0	94.2	84.4	53.0
72.5°	869.1	176.6	149.1	129.5	111.8	102.0	92.2	82.4	74.6	68.7	43.2
75°	135.4	119.7	105.9	96.1	88.3	78.5	70.6	64.7	62.8	54.9	29.4
77.5°	98.1	84.4	76.5	68.7	60.8	54.9	47.1	41.2	37.3	31.4	21.6
80°	68.7	60.8	54.9	45.1	39.2	33.4	29.4	25.5	23.5	19.6	9.8
82.5°	39.2	33.4	29.4	23.5	21.6	17.7	15.7	13.7	13.7	9.8	9.8
85°	17.7	17.7	13.7	11.8	9.8	9.8	9.8	7.8	7.8	5.9	5.9
87.5°	7.8	7.8	7.8	7.8	7.8	5.9	5.9	5.9	5.9	5.9	3.9
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°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6741.0	6766.5	6815.5	6866.5	6809.6	7013.7	6998.0	7066.6	7103.9	7121.6	7162.8
5°	7341.3	7455.1	7492.4	7380.5	7315.8	7249.1	7098.0	6984.2	6998.0	6960.7	6825.3
7.5°	7329.5	7086.3	6758.6	6609.5	6597.8	6580.1	6627.2	6654.7	6658.6	6656.6	6652.7
10°	6709.6	6584.0	6562.4	6542.8	6550.7	6478.1	6444.7	6350.6	6401.6	6374.1	6383.9
12.5°	6521.2	6491.8	6376.1	6215.2	6311.3	6238.7	6197.5	6225.0	6193.6	6164.2	6154.4
15°	6409.4	6219.1	6154.4	6115.1	6087.7	6072.0	6085.7	6054.3	6044.5	6038.6	6052.4
17.5°	6177.9	6101.4	6030.8	5926.8	5928.8	5922.9	5962.1	6021.0	6024.9	5722.8	5450.1
20°	5995.5	5932.7	5842.4	5777.7	5866.0	5709.0	5102.8	4814.4	4769.3	4769.3	4777.1
22.5°	5850.3	5711.0	5716.9	5614.9	4788.9	4620.2	4624.1	4641.8	4561.3	4286.7	4257.3
25°	5652.1	5630.6	5200.9	4494.6	4500.5	4369.1	4167.0	3882.5	3574.5	3574.5	3523.5
27.5°	5503.0	5045.9	4418.1	4388.7	3947.3	3668.7	3496.0	3235.1	3199.8	3166.5	3170.4
30°	5375.5	4269.0	4284.7	3668.7	3343.0	3111.5	3097.8	3054.6	3033.0	3027.2	3005.6
32.5°	4249.4	4157.2	3586.3	3123.3	2995.8	2958.5	2940.8	2891.8	2889.8	2852.6	2593.6
35°	3984.6	3649.1	3001.7	2876.1	2838.8	2803.5	2774.1	1861.8	219.7	88.3	76.5
37.5°	3682.4	3048.7	2776.0	2719.1	2683.8	1983.4	198.1	68.7	49.0	35.3	31.4
40°	3121.3	2723.1	2636.7	2574.0	1061.4	68.7	43.2	33.4	19.6	17.7	15.7
42.5°	2632.8	2566.1	2473.9	753.4	78.5	33.4	21.6	15.7	13.7	13.7	11.8
45°	2464.1	2405.2	996.6	74.6	49.0	15.7	13.7	13.7	11.8	7.8	7.8
47.5°	2307.2	2030.5	90.2	47.1	31.4	13.7	11.8	7.8	7.8	7.8	5.9
50°	2140.4	111.8	62.8	35.3	19.6	7.8	7.8	7.8	7.8	5.9	5.9
52.5°	400.2	78.5	51.0	31.4	9.8	7.8	7.8	7.8	5.9	5.9	5.9
55°	94.2	62.8	47.1	27.5	7.8	7.8	7.8	5.9	5.9	5.9	3.9
57.5°	70.6	47.1	37.3	25.5	7.8	5.9	5.9	5.9	5.9	5.9	3.9
60°	58.9	33.4	29.4	23.5	5.9	5.9	5.9	5.9	5.9	5.9	3.9
62.5°	41.2	27.5	21.6	17.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	33.4	21.6	17.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	29.4	17.7	11.8	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	23.5	5.9	5.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	19.6	5.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
75°	19.6	9.8	3.9	3.9	5.9	5.9	7.8	7.8	5.9	5.9	5.9
77.5°	13.7	9.8	3.9	3.9	5.9	5.9	7.8	7.8	5.9	5.9	5.9
80°	7.8	9.8	3.9	5.9	5.9	11.8	13.7	7.8	5.9	5.9	5.9
82.5°	7.8	9.8	11.8	11.8	5.9	9.8	11.8	9.8	7.8	5.9	5.9
85°	7.8	5.9	7.8	9.8	5.9	9.8	9.8	7.8	7.8	5.9	5.9
87.5°	3.9	5.9	5.9	7.8	7.8	7.8	9.8	7.8	7.8	7.8	5.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	7182.4	7190.2	7066.6	7023.5	7060.8	7052.9	7019.6	6896.0	6882.2	6799.8	6680.2
5°	6864.6	6917.5	6852.8	6964.6	6911.7	6964.6	7125.5	7200.1	7321.7	7396.2	7423.7
7.5°	6642.9	6654.7	6654.7	6664.5	6674.3	6676.2	6664.5	6656.6	6623.3	6582.1	6656.6
10°	6374.1	6387.8	6411.4	6407.5	6405.5	6446.7	6456.5	6540.9	6536.9	6552.6	6609.5
12.5°	6234.8	6128.9	6225.0	6199.5	6234.8	6179.9	6281.9	6264.2	6270.1	6317.2	6438.8
15°	6003.3	6036.7	6060.2	6060.2	6073.9	6062.2	6050.4	6130.8	6179.9	6181.8	6174.0
17.5°	5558.0	5304.9	5563.9	5497.1	6028.8	6042.5	5997.4	5960.2	5960.2	5989.6	6052.4
20°	4771.3	4777.1	4779.1	4804.6	4836.0	4834.0	4836.0	5609.0	5975.8	5891.5	5834.6
22.5°	4182.7	4110.1	4245.5	4235.7	4404.4	4590.8	4769.3	4751.6	4763.4	5308.8	5799.3
25°	3352.8	3447.0	3370.5	3403.8	3594.1	3815.8	3953.2	4312.2	4702.6	4675.1	4802.6
27.5°	3156.6	3131.1	3166.5	3166.5	3192.0	3221.4	3297.9	3500.0	3847.2	4212.1	4557.4
30°	2970.3	2991.8	2995.8	3031.1	3050.7	3070.3	3082.1	3158.6	3237.1	3490.2	3915.9
32.5°	2230.6	1956.0	2574.0	2740.7	2882.0	2915.3	2938.9	2970.3	3027.2	3064.4	3278.3
35°	64.7	64.7	68.7	78.5	100.1	674.9	2570.0	2832.9	2870.2	2917.3	2956.5
37.5°	31.4	23.5	27.5	29.4	35.3	49.0	70.6	219.7	2446.4	2766.2	2809.4
40°	13.7	13.7	13.7	13.7	15.7	19.6	29.4	49.0	74.6	1967.8	2654.4
42.5°	11.8	11.8	11.8	11.8	11.8	11.8	13.7	17.7	35.3	84.4	1392.9
45°	7.8	7.8	5.9	7.8	7.8	9.8	11.8	11.8	15.7	53.0	96.1
47.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	35.3	51.0
50°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	27.5	35.3
52.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	31.4
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	7.8	27.5
57.5°	3.9	3.9	3.9	3.9	3.9	5.9	3.9	3.9	5.9	5.9	25.5
60°	3.9	3.9	3.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	23.5
62.5°	5.9	5.9	3.9	5.9	3.9	3.9	5.9	5.9	5.9	5.9	15.7
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	5.9
67.5°	5.9	5.9	5.9	5.9	3.9	5.9	3.9	5.9	5.9	3.9	3.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9
72.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9
75°	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	3.9	3.9	3.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	9.8	9.8	3.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	9.8	9.8	9.8	9.8	13.7
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	7.8	7.8	9.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	7.8	5.9	7.8
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	5.9	5.9	5.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6690.0	6623.3	6601.7	6556.6	6552.6	6556.6	6546.7	6533.0	6540.9	6527.1	6515.4
5°	7439.4	7260.9	7145.1	6990.1	6776.3	6729.2	6717.4	6650.7	6627.2	6619.3	6587.9
7.5°	6833.2	7158.9	7355.0	7421.7	7170.6	7111.8	7043.1	6988.2	6935.2	6835.1	6774.3
10°	6564.4	6580.1	6768.4	6988.2	7345.2	7394.3	7431.6	7311.9	7278.5	7023.5	6968.5
12.5°	6501.6	6503.6	6525.2	6658.6	6939.1	6970.5	7102.0	7172.6	7258.9	7308.0	7268.7
15°	6215.2	6374.1	6491.8	6503.6	6529.1	6584.0	6623.3	6868.5	6972.5	7251.1	7235.4
17.5°	6081.8	6132.8	6303.5	6442.8	6419.2	6399.6	6431.0	6464.4	6564.4	6843.0	6839.1
20°	5860.1	6022.9	6115.1	6260.3	6391.8	6397.6	6362.3	6342.7	6303.5	6348.6	6389.8
22.5°	5765.9	5791.4	5964.1	6066.1	6215.2	6268.2	6276.0	6278.0	6256.4	6232.8	6221.1
25°	5756.1	5675.7	5764.0	5891.5	6001.3	6058.2	6123.0	6144.6	6136.7	6136.7	6124.9
27.5°	4710.4	5650.2	5603.1	5687.5	5820.9	5860.1	5893.4	5960.2	6001.3	6030.8	6044.5
30°	4486.8	4655.5	5477.5	5489.3	5624.7	5620.7	5658.0	5713.0	5765.9	5834.6	5852.2
32.5°	3968.9	4382.8	5014.5	5291.2	5432.4	5446.1	5465.8	5481.5	5530.5	5607.0	5673.7
35°	3180.2	3992.4	4296.5	5197.0	5222.5	5250.0	5261.7	5299.0	5314.7	5346.1	5404.9
37.5°	2878.1	3299.9	4121.9	4494.6	4981.2	5004.7	5067.5	5083.2	5108.7	5134.2	5179.3
40°	2703.5	2819.2	3431.3	4014.0	4787.0	4802.6	4824.2	4863.5	4865.4	4894.9	4936.1
42.5°	2564.2	2638.7	2817.2	3833.5	4649.6	4647.7	4596.7	4622.2	4633.9	4665.3	4722.2
45°	2048.2	2475.9	2589.7	3131.1	3702.0	3968.9	4480.9	4396.5	4394.6	4406.4	4467.2
47.5°	104.0	2328.7	2409.2	2583.8	3496.0	3505.9	3572.6	4133.7	4220.0	4192.5	4198.4
50°	70.6	160.9	2244.4	2324.8	3013.4	3256.7	3305.7	3331.2	3655.0	4015.9	3957.1
52.5°	54.9	92.2	1375.3	2158.1	2448.4	2626.9	2942.8	3123.3	3142.9	3288.1	3780.5
55°	49.0	70.6	149.1	1991.3	2081.5	2120.8	2305.2	2621.1	2876.1	2952.6	2958.5
57.5°	43.2	64.7	102.0	900.5	1893.2	1901.0	1932.4	2042.3	2271.8	2481.8	2719.1
60°	39.2	56.9	80.4	155.0	1720.6	1740.2	1746.1	1775.5	1803.0	1946.2	2218.9
62.5°	23.5	45.1	70.6	111.8	1361.5	1563.6	1561.6	1581.3	1606.8	1622.5	1677.4
65°	19.6	35.3	60.8	94.2	166.8	208.0	1263.4	1404.7	1420.4	1442.0	1451.8
67.5°	17.7	31.4	45.1	74.6	125.6	143.2	164.8	204.0	1114.3	1255.6	1275.2
70°	15.7	21.6	37.3	62.8	102.0	109.9	123.6	141.3	166.8	206.0	1008.4
72.5°	9.8	15.7	25.5	45.1	78.5	88.3	96.1	107.9	119.7	143.2	164.8
75°	3.9	11.8	21.6	33.4	60.8	66.7	72.6	80.4	90.2	105.9	117.7
77.5°	3.9	9.8	17.7	23.5	39.2	45.1	53.0	58.9	66.7	74.6	86.3
80°	13.7	7.8	11.8	17.7	27.5	29.4	33.4	37.3	43.2	49.0	56.9
82.5°	9.8	11.8	13.7	11.8	13.7	17.7	19.6	23.5	25.5	29.4	31.4
85°	7.8	7.8	9.8	9.8	9.8	9.8	9.8	9.8	11.8	13.7	17.7
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6515.4	6511.4	6499.7	6499.7	6497.7	6505.5	6511.4	6517.3	6515.4	6527.1	6515.4
5°	6564.4	6554.6	6536.9	6521.2	6515.4	6519.3	6513.4	6519.3	6511.4	6521.2	6503.6
7.5°	6699.8	6666.4	6597.8	6570.3	6535.0	6533.0	6515.4	6511.4	6499.7	6499.7	6478.1
10°	6939.1	6778.2	6758.6	6676.2	6646.8	6503.6	6535.0	6482.0	6476.1	6450.6	6440.8
12.5°	7135.3	7009.7	6972.5	6899.9	6817.5	6527.1	6591.9	6478.1	6472.2	6421.2	6368.2
15°	7139.2	7211.8	7109.8	6909.7	6892.0	6691.9	6560.5	6521.2	6470.2	6317.2	6342.7
17.5°	6909.7	7076.5	7125.5	7082.3	6956.8	6821.4	6637.0	6558.5	6405.5	6336.8	6289.7
20°	6536.9	6705.7	6915.6	6929.3	7007.8	6911.7	6670.3	6542.8	6358.4	6238.7	6199.5
22.5°	6240.7	6364.3	6605.6	6717.4	6813.6	6846.9	6693.9	6505.5	6276.0	6160.3	6136.7
25°	6083.7	6111.2	6183.8	6315.2	6527.1	6680.2	6701.7	6501.6	6382.0	6128.9	5995.5
27.5°	6026.9	6003.3	5973.9	6040.6	6199.5	6385.9	6509.5	6542.8	6244.6	6003.3	5869.9
30°	5881.7	5895.4	5850.3	5826.7	5930.7	6123.0	6342.7	6397.6	6168.1	5919.0	5765.9
32.5°	5703.1	5726.7	5734.5	5693.3	5671.8	5805.2	6042.5	6174.0	6162.2	5799.3	5628.6
35°	5479.5	5546.2	5563.9	5565.8	5530.5	5508.9	5646.3	5919.0	6022.9	5744.3	5497.1
37.5°	5244.1	5263.7	5359.8	5385.3	5385.3	5320.6	5422.6	5640.4	5785.5	5620.7	5336.3
40°	4949.8	5012.6	5102.8	5147.9	5193.1	5198.9	5142.1	5295.1	5534.4	5493.2	5185.2
42.5°	4735.9	4777.1	4832.1	4892.9	4985.1	5008.6	4949.8	4977.3	5226.4	5334.3	4989.0
45°	4486.8	4541.7	4557.4	4624.1	4720.3	4788.9	4787.0	4730.1	4930.2	5063.6	4845.8
47.5°	4231.7	4284.7	4312.2	4345.5	4416.2	4504.4	4553.5	4528.0	4567.2	4828.2	4655.5
50°	3968.9	3998.3	4053.2	4090.5	4137.6	4188.6	4306.3	4329.8	4274.9	4482.9	4445.6
52.5°	3719.7	3729.5	3766.8	3804.1	3866.8	3904.1	3998.3	4068.9	4065.0	4125.8	4212.1
55°	3525.5	3482.3	3490.2	3519.6	3560.8	3617.7	3670.7	3780.5	3817.8	3829.6	3966.9
57.5°	2754.5	3197.8	3237.1	3235.1	3284.2	3309.7	3358.7	3431.3	3564.7	3535.3	3688.3
60°	2503.3	2552.4	2923.2	2966.3	2984.0	3007.5	3066.4	3133.1	3231.2	3294.0	3360.7
62.5°	1908.9	2207.1	2318.9	2646.6	2697.6	2711.3	2750.5	2781.9	2883.9	3027.2	2999.7
65°	1477.3	1604.8	1946.2	2079.6	2358.2	2393.5	2448.4	2481.8	2511.2	2676.0	2683.8
67.5°	1277.2	1296.8	1389.0	1646.0	1822.6	2095.3	2128.6	2158.1	2203.2	2320.9	2393.5
70°	1090.8	1114.3	1139.8	1161.4	1391.0	1571.5	1824.5	1834.3	1863.8	1942.2	2107.0
72.5°	206.0	931.9	947.6	961.3	986.8	1106.5	1347.8	1544.0	1555.8	1593.0	1744.1
75°	139.3	162.8	223.7	769.1	794.6	802.4	843.6	1088.8	1269.3	1277.2	1343.9
77.5°	100.1	111.8	135.4	160.9	410.0	616.0	625.8	671.0	857.3	992.7	1004.5
80°	68.7	76.5	90.2	102.0	125.6	164.8	455.2	468.9	492.4	678.8	714.1
82.5°	39.2	45.1	53.0	64.7	74.6	94.2	121.6	156.9	319.8	341.4	453.2
85°	19.6	21.6	25.5	31.4	37.3	45.1	60.8	74.6	102.0	184.4	190.3
87.5°	9.8	9.8	9.8	9.8	15.7	17.7	21.6	27.5	35.3	53.0	68.7
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6517.3	6544.8	6568.3	6574.2	6574.2	6578.1	6584.0	6587.9	6591.9	6595.8	6591.9
5°	6505.5	6535.0	6554.6	6560.5	6560.5	6572.3	6582.1	6593.8	6599.7	6599.7	6595.8
7.5°	6476.1	6497.7	6523.2	6538.9	6540.9	6560.5	6578.1	6576.2	6584.0	6587.9	6597.8
10°	6436.9	6436.9	6480.0	6491.8	6501.6	6523.2	6529.1	6540.9	6568.3	6572.3	6597.8
12.5°	6417.3	6397.6	6448.7	6454.5	6487.9	6460.4	6495.7	6507.5	6480.0	6517.3	6468.3
15°	6329.0	6352.5	6344.7	6362.3	6421.2	6389.8	6485.9	6454.5	6525.2	6440.8	6589.9
17.5°	6256.4	6252.5	6283.9	6299.6	6311.3	6378.0	6403.5	6438.8	6466.3	6442.8	6501.6
20°	6203.4	6172.0	6195.6	6213.2	6254.4	6305.4	6321.1	6268.2	6360.4	6517.3	6554.6
22.5°	6103.4	6081.8	6109.3	6109.3	6172.0	6164.2	6223.0	6189.7	6276.0	6458.5	6648.8
25°	5968.0	5970.0	5999.4	6034.7	6046.5	6134.8	6166.1	6209.3	6317.2	6535.0	6650.7
27.5°	5830.7	5818.9	5836.6	5909.1	5970.0	6034.7	6044.5	6191.7	6338.8	6487.9	6589.9
30°	5693.3	5681.6	5693.3	5746.3	5818.9	5862.1	5970.0	6166.1	6303.5	6405.5	6501.6
32.5°	5546.2	5534.4	5561.9	5601.1	5728.7	5734.5	5948.4	6132.8	6240.7	6315.2	6297.6
35°	5389.2	5373.6	5399.1	5459.9	5577.6	5620.7	5844.4	5981.7	6103.4	6138.7	6056.3
37.5°	5200.9	5173.4	5204.8	5289.2	5412.8	5538.3	5724.7	5883.6	5948.4	5854.2	5756.1
40°	5004.7	4985.1	5040.0	5083.2	5228.4	5403.0	5616.8	5728.7	5687.5	5579.5	5471.6
42.5°	4830.1	4788.9	4838.0	4920.4	5085.2	5283.3	5456.0	5518.7	5420.6	5261.7	5136.2
45°	4616.3	4567.2	4626.1	4735.9	4912.5	5138.1	5273.5	5251.9	5085.2	4947.8	4775.2
47.5°	4392.6	4333.8	4392.6	4524.1	4722.2	4961.6	5059.7	4961.6	4751.6	4579.0	4439.7
50°	4172.9	4104.2	4161.1	4359.3	4553.5	4737.9	4735.9	4545.6	4420.1	4231.7	4110.1
52.5°	3955.1	3857.0	3913.9	4129.7	4324.0	4533.9	4378.9	4202.3	4051.3	3886.5	3847.2
55°	3686.3	3580.4	3656.9	3970.8	4119.9	4243.5	3996.3	3841.3	3692.2	3609.8	3560.8
57.5°	3431.3	3315.6	3382.3	3753.1	3862.9	3894.3	3666.7	3447.0	3358.7	3331.2	3260.6
60°	3168.4	3037.0	3099.7	3527.4	3603.9	3476.4	3252.8	3082.1	3064.4	3009.5	2954.6
62.5°	2917.3	2772.1	2811.4	3246.9	3282.2	3050.7	2844.7	2799.6	2756.4	2701.5	2672.1
65°	2628.9	2477.8	2532.8	2948.7	2915.3	2617.1	2501.4	2491.6	2434.7	2389.6	2432.7
67.5°	2364.0	2185.5	2262.0	2623.0	2472.0	2228.7	2181.6	2158.1	2112.9	2138.4	1685.2
70°	2073.7	1879.5	1983.4	2271.8	2048.2	1887.3	1869.7	1834.3	1836.3	1459.6	1230.1
72.5°	1750.0	1581.3	1732.3	1887.3	1620.5	1573.4	1547.9	1544.0	1245.8	1012.3	955.4
75°	1465.5	1294.8	1457.7	1516.5	1290.9	1259.5	1257.6	1039.8	818.1	780.8	763.2
77.5°	1143.8	1012.3	1167.3	1079.0	990.7	955.4	857.3	643.5	616.0	590.5	221.7
80°	771.0	780.8	871.1	743.5	706.3	602.3	474.8	455.2	392.4	156.9	123.6
82.5°	468.9	588.6	555.2	465.0	455.2	327.6	300.2	153.0	113.8	90.2	78.5
85°	243.3	298.2	286.4	253.1	188.3	168.7	94.2	72.6	58.9	45.1	37.3
87.5°	82.4	109.9	105.9	84.4	64.7	51.0	33.4	27.5	19.6	15.7	13.7
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6587.9	6587.9	6584.0	6587.9	6589.9	6586.0	6586.0	6589.9	6591.9	6593.8	6603.6
5°	6597.8	6601.7	6607.6	6619.3	6621.3	6644.8	6654.7	6660.5	6666.4	6668.4	6654.7
7.5°	6619.3	6633.1	6644.8	6642.9	6629.1	6591.9	6580.1	6570.3	6587.9	6633.1	6686.0
10°	6639.0	6576.2	6458.5	6619.3	6570.3	6615.4	6748.8	6778.2	6868.5	6996.0	7033.3
12.5°	6503.6	6676.2	6713.5	6533.0	6866.5	6742.9	6890.1	7019.6	7056.8	7186.3	7107.8
15°	6648.8	6733.1	6790.0	6970.5	6950.9	7056.8	7098.0	7072.5	7078.4	7111.8	7200.1
17.5°	6646.8	6815.5	6852.8	6974.4	7056.8	7058.8	7047.0	7035.3	7066.6	7092.1	7039.2
20°	6760.6	6815.5	6888.1	6937.2	6952.9	6972.5	7009.7	6980.3	6921.5	6864.6	6841.0
22.5°	6703.7	6827.3	6890.1	6897.9	6888.1	6827.3	6772.4	6690.0	6662.5	6633.1	6642.9
25°	6715.5	6772.4	6764.5	6733.1	6691.9	6578.1	6550.7	6515.4	6462.4	6334.9	6219.1
27.5°	6631.1	6601.7	6566.4	6489.9	6415.3	6354.5	6285.8	6172.0	6077.9	5940.5	5889.5
30°	6489.9	6372.1	6285.8	6240.7	6168.1	6066.1	5962.1	5822.8	5703.1	5675.7	5650.2
32.5°	6219.1	6103.4	6032.7	5922.9	5799.3	5677.6	5558.0	5503.0	5477.5	5481.5	5457.9
35°	5942.5	5840.5	5734.5	5569.7	5477.5	5355.9	5312.7	5301.0	5277.4	5251.9	5224.5
37.5°	5648.2	5528.5	5369.6	5271.5	5179.3	5130.3	5108.7	5091.0	5049.8	5004.7	4973.3
40°	5363.7	5147.9	5059.7	4963.5	4936.1	4914.5	4883.1	4839.9	4783.0	4775.2	4761.5
42.5°	4983.1	4828.2	4751.6	4732.0	4698.7	4661.4	4633.9	4586.8	4563.3	4579.0	4590.8
45°	4622.2	4543.7	4518.2	4494.6	4431.9	4378.9	4361.2	4345.5	4365.2	4451.5	4245.5
47.5°	4329.8	4298.4	4267.1	4227.8	4169.0	4129.7	4147.4	4163.1	4180.7	3547.1	3237.1
50°	4076.8	4033.6	3984.6	3941.4	3906.1	3902.2	3994.4	3717.7	3113.5	3097.8	2783.9
52.5°	3800.1	3735.4	3706.0	3680.5	3696.2	3755.0	3107.6	2883.9	2766.2	2403.3	2242.4
55°	3501.9	3445.0	3445.0	3468.6	3384.2	2742.7	2709.3	2342.5	2120.8	2058.0	2032.5
57.5°	3203.7	3197.8	3231.2	2954.6	2489.6	2387.6	2007.0	1926.6	1891.2	1883.4	1842.2
60°	2931.0	2986.0	2499.4	2299.3	1999.1	1803.0	1748.0	1738.2	1700.9	1687.2	1649.9
62.5°	2713.3	2250.3	2095.3	1710.7	1610.7	1585.2	1555.8	1542.0	1508.7	1332.1	390.4
65°	1959.9	1852.0	1502.8	1438.0	1430.2	1392.9	1381.2	1241.9	292.3	196.2	166.8
67.5°	1479.2	1312.5	1267.4	1255.6	1218.3	1143.8	339.4	194.2	166.8	145.2	127.5
70°	1135.9	1106.5	1073.1	1045.7	308.0	192.3	166.8	141.3	121.6	107.9	98.1
72.5°	929.9	910.3	529.7	202.1	164.8	139.3	123.6	107.9	94.2	86.3	78.5
75°	727.9	202.1	166.8	139.3	119.7	102.0	90.2	80.4	72.6	66.7	60.8
77.5°	164.8	133.4	113.8	96.1	86.3	76.5	68.7	58.9	53.0	47.1	39.2
80°	102.0	88.3	74.6	68.7	58.9	49.0	43.2	39.2	31.4	29.4	25.5
82.5°	66.7	53.0	47.1	39.2	31.4	29.4	25.5	19.6	17.7	15.7	13.7
85°	29.4	25.5	21.6	17.7	13.7	11.8	9.8	7.8	7.8	7.8	7.8
87.5°	9.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6607.6	6642.9	6676.2	6666.4	6631.1	6576.2	6560.5	6538.9	6554.6	6587.9	6601.7
5°	6654.7	6635.0	6705.7	6809.6	6978.4	6994.1	7111.8	7139.2	7233.4	7292.3	7290.3
7.5°	6721.4	6999.9	7115.7	7241.2	7298.1	7284.4	7302.1	7288.3	7266.8	7256.9	7245.2
10°	7060.8	7272.6	7315.8	7315.8	7227.5	7107.8	7056.8	6968.5	6792.0	6795.9	6766.5
12.5°	7258.9	7333.5	7231.4	7145.1	6790.0	6652.7	6503.6	6433.0	6391.8	6329.0	6352.5
15°	7154.9	7049.0	6988.2	6709.6	6491.8	6244.6	6248.5	6205.4	6160.3	6164.2	6134.8
17.5°	7001.9	6917.5	6485.9	6293.7	6187.7	6091.6	6073.9	6017.0	5987.6	5977.8	5975.8
20°	6792.0	6487.9	6166.1	6119.1	5991.5	5881.7	5864.0	5881.7	5971.9	5811.0	5265.6
22.5°	6546.7	6109.3	6015.1	5881.7	5795.4	5752.2	5860.1	5369.6	4628.0	4718.3	4622.2
25°	6130.8	5940.5	5779.7	5677.6	5667.8	5403.0	4502.5	4408.3	3931.6	3676.5	3390.1
27.5°	5826.7	5744.3	5575.6	5558.0	5430.4	4418.1	3949.2	3431.3	3241.0	3211.6	3148.8
30°	5642.3	5524.6	5422.6	4977.3	4333.8	3556.9	3168.4	3095.8	3062.5	3027.2	2972.2
32.5°	5420.6	5308.8	5357.9	4184.7	3454.8	3062.5	2984.0	2931.0	2870.2	2846.7	2648.5
35°	5195.0	5144.0	4186.6	3517.6	2970.3	2876.1	2817.2	2762.3	2197.3	531.7	180.5
37.5°	4953.7	4941.9	3762.9	2919.3	2781.9	2693.6	2526.9	521.9	123.6	84.4	62.8
40°	4765.4	3764.8	2974.2	2736.8	2625.0	2485.7	349.2	86.3	54.9	33.4	21.6
42.5°	4639.8	3386.2	2662.3	2568.1	2324.8	257.0	88.3	37.3	21.6	17.7	13.7
45°	3576.5	2674.0	2487.6	2389.6	294.3	88.3	51.0	17.7	13.7	11.8	7.8
47.5°	3299.9	2428.8	2318.9	521.9	98.1	47.1	35.3	11.8	7.8	7.8	7.8
50°	2499.4	2244.4	1846.1	127.5	62.8	33.4	25.5	7.8	7.8	7.8	5.9
52.5°	2191.4	2071.7	198.1	84.4	49.0	25.5	15.7	5.9	5.9	5.9	5.9
55°	2003.1	1314.5	117.7	64.7	41.2	23.5	9.8	5.9	5.9	5.9	3.9
57.5°	1832.4	176.6	86.3	54.9	37.3	21.6	5.9	5.9	5.9	5.9	3.9
60°	1553.8	127.5	70.6	49.0	35.3	19.6	5.9	5.9	5.9	5.9	5.9
62.5°	202.1	100.1	60.8	43.2	25.5	15.7	3.9	5.9	5.9	5.9	5.9
65°	147.1	78.5	54.9	29.4	15.7	5.9	3.9	5.9	5.9	5.9	5.9
67.5°	113.8	64.7	41.2	25.5	13.7	3.9	3.9	5.9	5.9	5.9	5.9
70°	90.2	54.9	33.4	21.6	11.8	3.9	3.9	5.9	5.9	5.9	5.9
72.5°	70.6	39.2	23.5	11.8	7.8	3.9	3.9	5.9	5.9	5.9	5.9
75°	53.0	31.4	17.7	9.8	3.9	3.9	3.9	5.9	5.9	5.9	5.9
77.5°	35.3	19.6	13.7	7.8	7.8	7.8	9.8	9.8	5.9	5.9	5.9
80°	23.5	13.7	9.8	9.8	9.8	7.8	9.8	9.8	5.9	9.8	5.9
82.5°	11.8	9.8	9.8	7.8	7.8	5.9	7.8	7.8	7.8	7.8	5.9
85°	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	5.9
87.5°	3.9	3.9	3.9	3.9	5.9	5.9	5.9	5.9	7.8	7.8	5.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6584.0	6589.9	6574.2	6658.6	6615.4	6619.3	6637.0	6591.9	6601.7	6570.3	6548.7
5°	7298.1	7309.9	7321.7	7325.6	7333.5	7343.3	7331.5	7325.6	7313.8	7274.6	7233.4
7.5°	7186.3	7172.6	7166.7	7174.5	7188.3	7194.2	7184.4	7198.1	7249.1	7270.7	7284.4
10°	6597.8	6535.0	6578.1	6572.3	6523.2	6688.0	6642.9	6668.4	6686.0	6866.5	6976.4
12.5°	6317.2	6356.4	6281.9	6244.6	6293.7	6327.0	6360.4	6289.7	6387.8	6342.7	6487.9
15°	6081.8	6058.2	6050.4	6052.4	6042.5	6089.6	6101.4	6117.1	6130.8	6191.7	6215.2
17.5°	5975.8	6015.1	6030.8	6042.5	6022.9	6001.3	5979.8	5948.4	5958.2	5942.5	5987.6
20°	4898.8	4767.3	4759.5	4836.0	4751.6	4798.7	4912.5	5673.7	5648.2	5944.5	5844.4
22.5°	4088.5	3964.9	3859.0	3766.8	3898.2	3953.2	4165.0	4404.4	4792.8	4732.0	5153.8
25°	3339.1	3294.0	3266.5	3252.8	3262.6	3258.7	3305.7	3417.6	3594.1	4010.1	4547.6
27.5°	3123.3	3101.7	3091.9	3060.5	3084.1	3076.2	3113.5	3137.0	3190.0	3231.2	3405.8
30°	2952.6	2927.1	2909.4	2876.1	2899.6	2901.6	2913.4	2974.2	2995.8	3031.1	3086.0
32.5°	1079.0	635.6	596.4	567.0	619.9	808.3	1418.4	2479.8	2829.0	2856.5	2919.3
35°	105.9	88.3	78.5	78.5	80.4	88.3	117.7	310.0	567.0	2191.4	2742.7
37.5°	41.2	35.3	29.4	27.5	29.4	33.4	45.1	58.9	80.4	166.8	743.5
40°	17.7	15.7	13.7	13.7	13.7	13.7	15.7	19.6	29.4	54.9	86.3
42.5°	11.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	13.7	17.7	35.3
45°	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	9.8	15.7
47.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8
50°	5.9	5.9	5.9	5.9	3.9	5.9	3.9	5.9	5.9	5.9	5.9
52.5°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9
57.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	3.9
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	5.9	5.9	3.9	5.9	3.9	3.9	5.9	5.9	5.9	3.9	3.9
72.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	11.8	7.8
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	9.8
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	9.8	9.8
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	7.8
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	7.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6511.4	6509.5	6550.7	6582.1	6570.3	6582.1	6595.8	6597.8	6601.7	6586.0	6580.1
5°	7154.9	7094.1	6976.4	6892.0	6793.9	6615.4	6527.1	6536.9	6538.9	6533.0	6540.9
7.5°	7278.5	7272.6	7231.4	7213.8	7147.1	7019.6	6815.5	6780.2	6693.9	6639.0	6593.8
10°	6968.5	7109.8	7147.1	7209.9	7249.1	7225.6	7052.9	7027.4	6972.5	6909.7	6923.4
12.5°	6633.1	6748.8	6754.7	7096.1	7172.6	7180.4	7113.7	7149.0	7156.9	7015.6	6933.2
15°	6221.1	6276.0	6391.8	6709.6	6941.1	7086.3	7129.4	7149.0	7052.9	7047.0	7013.7
17.5°	6040.6	6075.9	6128.9	6307.4	6658.6	6872.4	7054.9	7041.1	7078.4	7050.9	6966.6
20°	5813.0	5842.4	5936.6	6026.9	6199.5	6484.0	6825.3	6850.8	6899.9	6894.0	6917.5
22.5°	5809.1	5705.1	5720.8	5791.4	5971.9	6227.0	6589.9	6674.3	6705.7	6727.2	6752.7
25°	4608.4	5434.4	5585.4	5630.6	5748.3	5897.4	6325.1	6356.4	6415.3	6511.4	6582.1
27.5°	3992.4	4553.5	5157.7	5471.6	5546.2	5669.8	5924.8	5971.9	6172.0	6195.6	6305.4
30°	3150.8	3584.3	4486.8	5242.1	5365.7	5452.0	5632.5	5726.7	5813.0	5907.2	6022.9
32.5°	2964.4	3033.0	3533.3	4337.7	5299.0	5234.3	5367.7	5424.6	5518.7	5601.1	5685.5
35°	2793.7	2840.8	2946.7	3552.9	4316.1	5055.7	5146.0	5183.3	5236.2	5299.0	5359.8
37.5°	2615.2	2685.8	2758.4	2921.2	3992.4	4914.5	4912.5	4955.7	4987.1	5040.0	5091.0
40°	474.8	2466.1	2583.8	2689.7	3095.8	3919.8	4692.8	4712.4	4734.0	4767.3	4820.3
42.5°	76.5	412.0	2420.9	2523.0	2638.7	3509.8	4592.7	4512.3	4498.6	4522.1	4569.2
45°	39.2	100.1	486.5	2356.2	2460.2	2799.6	3755.0	4373.0	4359.3	4314.1	4324.0
47.5°	29.4	62.8	119.7	814.2	2303.2	2403.3	3464.7	3427.4	3688.3	4188.6	4112.1
50°	25.5	43.2	70.6	166.8	2034.5	2213.0	2668.1	3117.4	3254.7	3272.4	3872.7
52.5°	23.5	29.4	51.0	107.9	427.7	2046.2	2169.8	2326.8	2558.3	3054.6	3042.9
55°	21.6	27.5	43.2	72.6	149.1	1844.2	1971.7	2001.1	2050.2	2287.5	2601.4
57.5°	11.8	25.5	41.2	62.8	111.8	337.4	1789.2	1812.8	1852.0	1861.8	1973.6
60°	5.9	23.5	37.3	54.9	82.4	156.9	1608.7	1636.2	1659.7	1663.7	1699.0
62.5°	3.9	21.6	31.4	51.0	68.7	111.8	380.6	776.9	1477.3	1477.3	1518.5
65°	3.9	15.7	19.6	33.4	62.8	92.2	160.9	186.4	362.9	892.6	1332.1
67.5°	3.9	5.9	17.7	27.5	47.1	70.6	117.7	137.3	164.8	188.3	349.2
70°	3.9	3.9	15.7	17.7	29.4	53.0	84.4	96.1	111.8	127.5	147.1
72.5°	3.9	3.9	13.7	13.7	19.6	35.3	64.7	70.6	80.4	90.2	104.0
75°	9.8	7.8	11.8	11.8	13.7	27.5	49.0	54.9	58.9	66.7	76.5
77.5°	9.8	9.8	9.8	9.8	9.8	17.7	31.4	35.3	41.2	45.1	53.0
80°	7.8	7.8	7.8	9.8	9.8	11.8	19.6	21.6	23.5	29.4	31.4
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	11.8	13.7	17.7
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	7.8	7.8	7.8
87.5°	5.9	5.9	5.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6578.1	6566.4	6556.6	6562.4	6544.8	6536.9	6542.8	6544.8	6548.7	6558.5	6560.5
5°	6560.5	6556.6	6574.2	6584.0	6580.1	6584.0	6584.0	6576.2	6564.4	6572.3	6554.6
7.5°	6548.7	6523.2	6503.6	6507.5	6487.9	6511.4	6533.0	6564.4	6574.2	6574.2	6554.6
10°	6750.8	6723.3	6613.5	6538.9	6489.9	6446.7	6548.7	6444.7	6493.8	6307.4	6521.2
12.5°	6917.5	6954.8	6905.8	6701.7	6666.4	6536.9	6611.5	6484.0	6446.7	6232.8	6301.5
15°	6984.2	6913.6	6897.9	6841.0	6764.5	6727.2	6527.1	6505.5	6444.7	6468.3	6378.0
17.5°	6925.4	6960.7	6913.6	6876.3	6797.9	6709.6	6589.9	6484.0	6399.6	6211.3	6370.2
20°	6868.5	6915.6	6774.3	6797.9	6805.7	6703.7	6640.9	6552.6	6446.7	6270.1	6132.8
22.5°	6774.3	6741.0	6752.7	6717.4	6688.0	6701.7	6615.4	6554.6	6376.1	6295.6	6109.3
25°	6621.3	6609.5	6640.9	6637.0	6566.4	6542.8	6499.7	6434.9	6364.3	6234.8	6081.8
27.5°	6372.1	6433.0	6487.9	6513.4	6476.1	6413.3	6389.8	6352.5	6303.5	6172.0	6058.2
30°	6109.3	6177.9	6240.7	6295.6	6329.0	6301.5	6279.9	6258.4	6183.8	6097.5	5970.0
32.5°	5809.1	5899.3	5985.7	6052.4	6124.9	6146.5	6130.8	6113.2	6050.4	5971.9	5869.9
35°	5461.8	5585.4	5711.0	5830.7	5862.1	5913.1	5964.1	5934.6	5901.3	5822.8	5728.7
37.5°	5167.6	5255.8	5346.1	5497.1	5607.0	5671.8	5762.0	5773.8	5716.9	5679.6	5556.0
40°	4863.5	4943.9	5075.3	5163.6	5314.7	5389.2	5485.4	5528.5	5514.8	5493.2	5385.3
42.5°	4624.1	4663.4	4749.7	4828.2	4977.3	5130.3	5214.6	5261.7	5310.8	5293.1	5238.2
45°	4369.1	4404.4	4433.8	4502.5	4647.7	4783.0	4887.0	4957.6	5045.9	5087.1	5020.4
47.5°	4116.0	4125.8	4161.1	4218.0	4304.3	4408.3	4582.9	4688.9	4771.3	4851.7	4808.5
50°	3921.8	3886.5	3892.3	3927.7	3998.3	4100.3	4225.9	4375.0	4469.1	4567.2	4577.0
52.5°	3427.4	3713.8	3645.1	3664.8	3702.0	3751.1	3882.5	4029.7	4145.4	4229.8	4314.1
55°	2876.1	2933.0	3484.3	3405.8	3429.3	3472.5	3533.3	3680.5	3792.3	3910.0	4027.7
57.5°	2230.6	2654.4	2676.0	3186.1	3174.3	3178.2	3229.2	3313.6	3425.4	3572.6	3672.6
60°	1734.3	1912.8	2260.1	2436.6	2883.9	2899.6	2929.1	2978.1	3074.2	3213.5	3372.4
62.5°	1530.3	1553.8	1677.4	1942.2	2232.6	2583.8	2646.6	2654.4	2697.6	2836.9	3021.3
65°	1343.9	1359.6	1396.8	1424.3	1667.6	2007.0	2309.1	2358.2	2385.6	2468.0	2625.0
67.5°	926.0	1171.2	1204.6	1224.2	1247.7	1404.7	1779.4	2028.6	2060.0	2132.5	2269.9
70°	178.5	370.8	1014.3	1035.9	1047.6	1083.0	1143.8	1540.1	1748.0	1816.7	1879.5
72.5°	121.6	143.2	172.6	408.1	863.2	882.8	896.6	947.6	1298.8	1498.9	1532.2
75°	88.3	98.1	115.8	143.2	176.6	574.8	712.2	737.7	763.2	1053.5	1222.2
77.5°	62.8	70.6	78.5	92.2	107.9	139.3	200.1	551.3	576.8	590.5	833.8
80°	35.3	43.2	53.0	60.8	68.7	78.5	102.0	127.5	284.5	415.9	437.5
82.5°	19.6	23.5	27.5	33.4	37.3	47.1	56.9	68.7	90.2	133.4	282.5
85°	9.8	9.8	9.8	13.7	15.7	21.6	25.5	29.4	41.2	56.9	78.5
87.5°	5.9	5.9	7.8	7.8	7.8	9.8	9.8	9.8	11.8	17.7	25.5
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-LD5-130HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	6536.9	6536.9	6536.9	6536.9	6536.9
2.5°	6562.4	6556.6	6556.6	6580.1	6574.2
5°	6550.7	6544.8	6542.8	6568.3	6556.6
7.5°	6540.9	6519.3	6513.4	6536.9	6527.1
10°	6501.6	6485.9	6495.7	6487.9	6484.0
12.5°	6434.9	6425.1	6383.9	6387.8	6421.2
15°	6315.2	6354.5	6283.9	6346.6	6360.4
17.5°	6095.5	6183.8	6252.5	6289.7	6295.6
20°	6193.6	6223.0	6187.7	6189.7	6213.2
22.5°	6066.1	6079.8	6089.6	6077.9	6128.9
25°	5862.1	5809.1	5922.9	5946.4	6028.8
27.5°	5799.3	5756.1	5809.1	5805.2	5873.8
30°	5748.3	5609.0	5632.5	5669.8	5754.2
32.5°	5675.7	5456.0	5432.4	5514.8	5609.0
35°	5548.2	5340.2	5285.3	5338.2	5479.5
37.5°	5440.3	5179.3	5069.5	5140.1	5324.5
40°	5279.4	5053.8	4883.1	4945.9	5163.6
42.5°	5087.1	4945.9	4683.0	4726.1	4975.3
45°	4892.9	4767.3	4488.8	4510.3	4806.6
47.5°	4694.7	4579.0	4286.7	4290.6	4590.8
50°	4500.5	4347.5	4106.2	4037.5	4361.2
52.5°	4247.4	4106.2	3923.7	3811.9	4143.5
55°	4008.1	3849.2	3715.8	3543.1	3896.3
57.5°	3774.6	3598.1	3507.8	3286.1	3615.7
60°	3454.8	3370.5	3237.1	3025.2	3362.6
62.5°	3127.2	3099.7	2964.4	2744.7	3050.7
65°	2744.7	2809.4	2670.1	2481.8	2727.0
67.5°	2383.7	2499.4	2346.4	2230.6	2415.1
70°	1999.1	2132.5	2046.2	2005.0	2083.5
72.5°	1620.5	1750.0	1757.8	1728.4	1753.9
75°	1251.7	1394.9	1473.4	1428.2	1434.1
77.5°	949.5	1018.2	1104.5	1139.8	1132.0
80°	586.6	706.3	776.9	849.5	824.0
82.5°	296.2	396.3	482.6	561.1	523.8
85°	123.6	158.9	221.7	292.3	280.5
87.5°	37.3	62.8	66.7	94.2	88.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)