

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: McGRAW-EDISON

Report Number: P646776

Luminaire Tested: **GALN-SA2C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9060.1 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

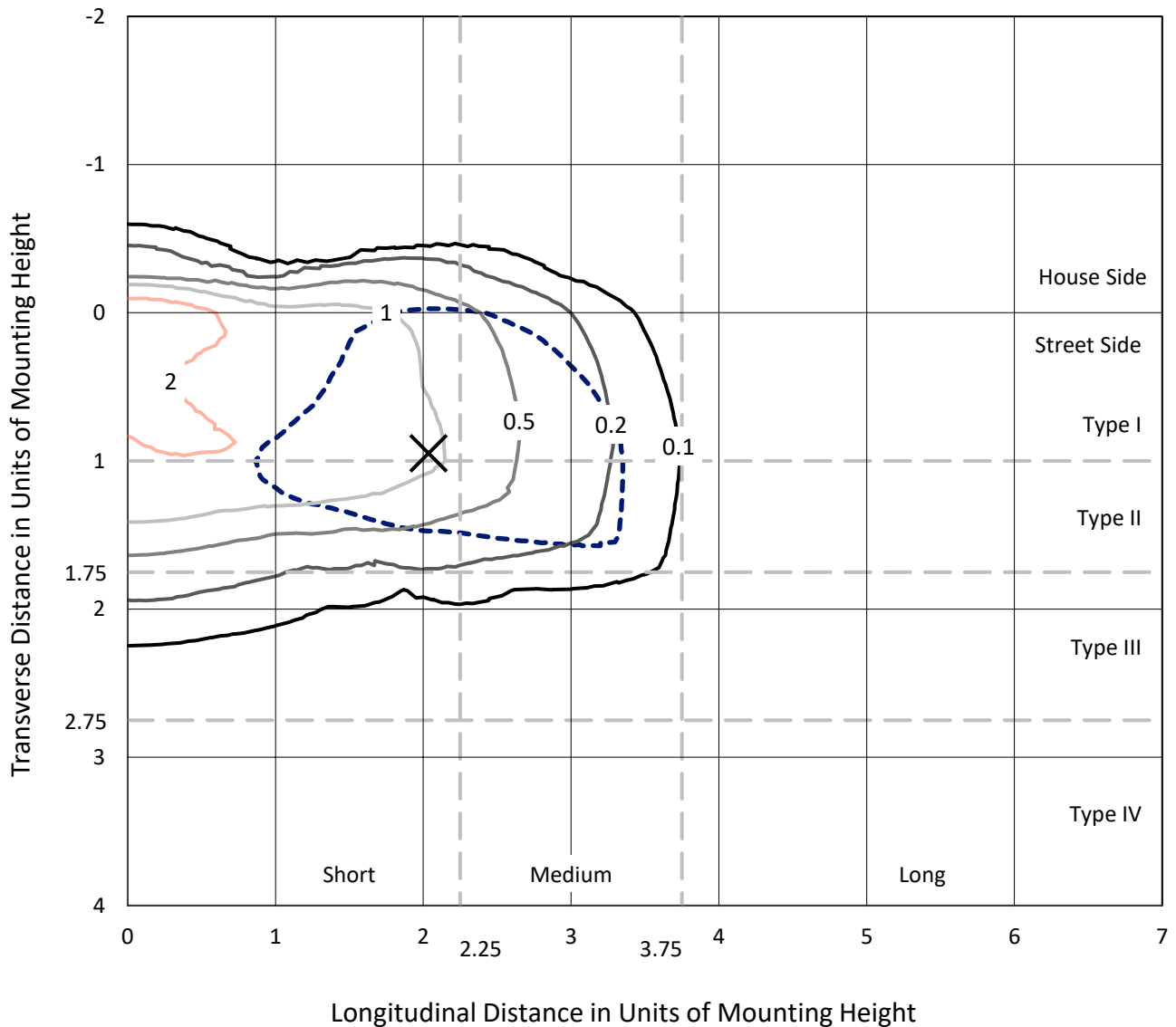
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646776
 CATALOG NUMBER: GALN-SA2C-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

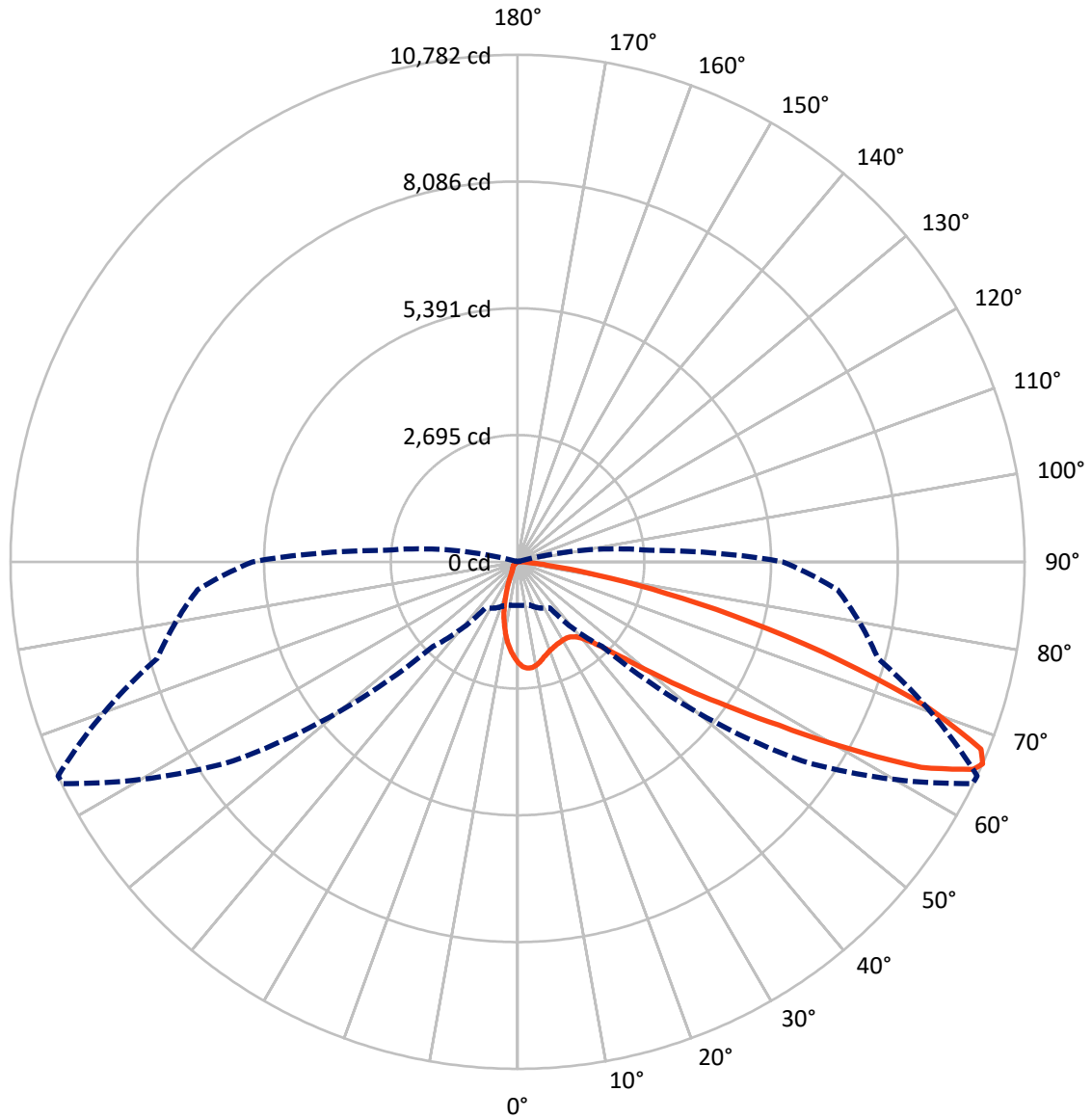
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P646776
CATALOG NUMBER: GALN-SA2C-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA2C-835-U-SL2-HSS

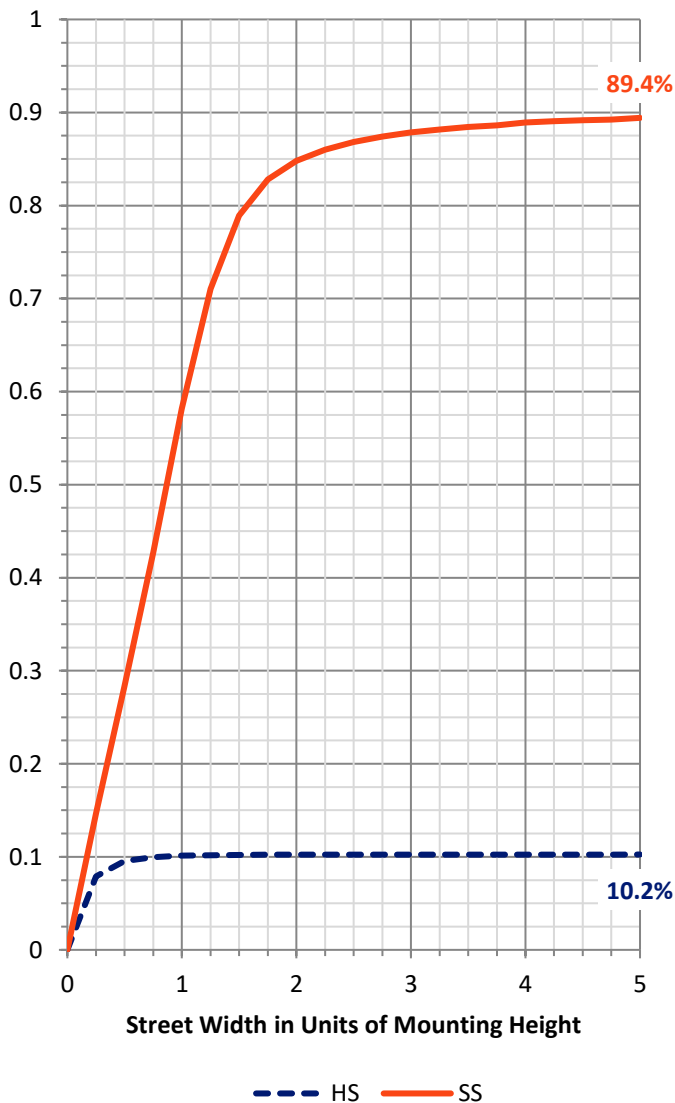
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	936.9	0.0	936.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8123.2	0.0	8123.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	9060.1	0.0	9060.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	1.9
10°-20°	382.9	4.2
20°-30°	548.4	6.1
30°-40°	801.0	8.8
40°-50°	1343.2	14.8
50°-60°	2241.6	24.7
60°-70°	2379.4	26.3
70°-80°	1077.6	11.9
80°-90°	110.3	1.2
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°-90°	9060.1	100.0
0°-180°	9060.1	100.0

Coefficient of Utilization



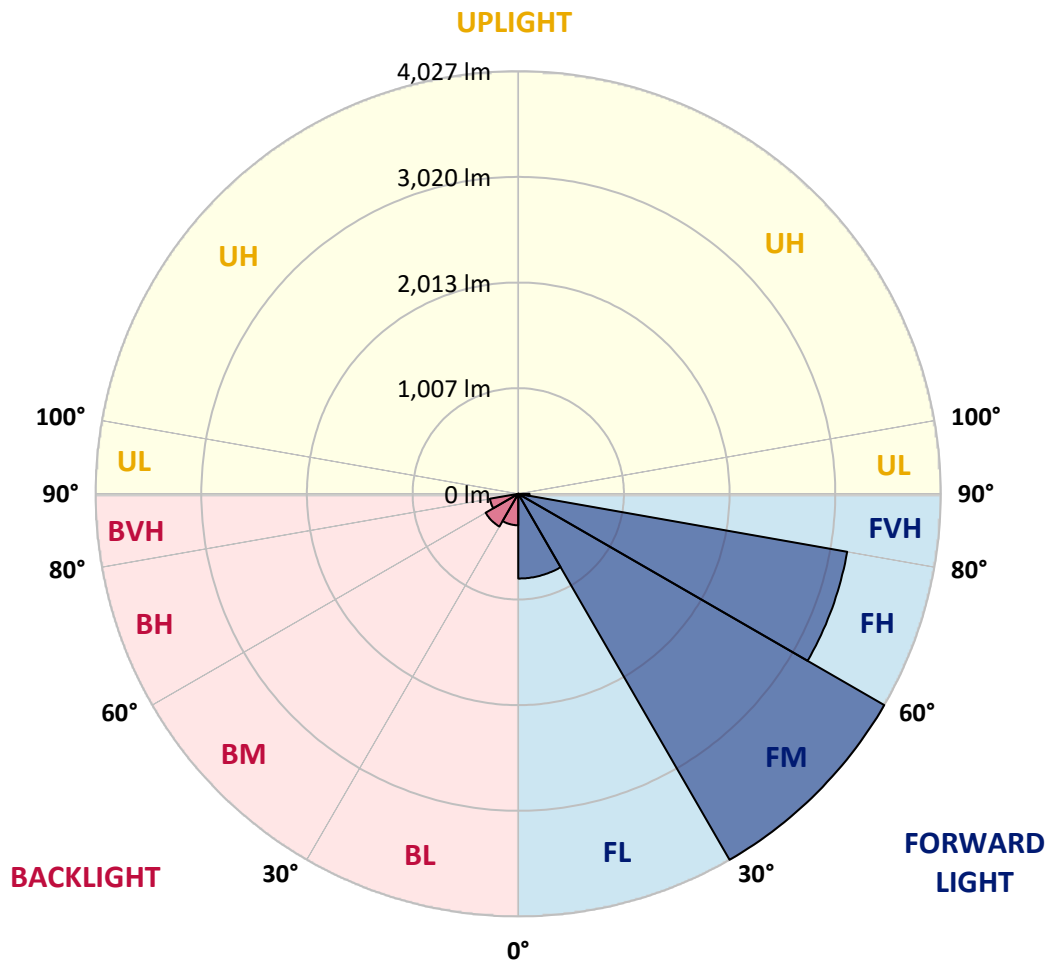
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 CATALOG NUMBER: GALN-SA2C-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.3	8.9			
FM (30°-60°)	4026.5	44.4			
FH (60°-80°)	3182.6	35.1			G2/5000
FVH (80°-90°)	106.7	1.2			G2/225
BL (0°-30°)	299.7	3.3	B1/500		
BM (30°-60°)	359.3	4.0	B1/1000		
BH (60°-80°)	274.4	3.0	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P646776

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5
2.5°	2264.1	2266.6	2269.7	2273.9	2277.0	2267.8	2255.0	2240.2	2237.2	2206.0	2168.0
5°	2143.0	2146.7	2173.6	2188.3	2221.3	2251.3	2270.2	2272.7	2271.5	2242.1	2181.5
7.5°	1970.4	1980.8	2007.1	2032.8	2094.6	2151.5	2218.9	2266.0	2269.1	2261.1	2185.8
10°	1830.3	1837.0	1850.5	1901.3	1952.6	2039.6	2133.8	2222.5	2229.9	2261.7	2182.1
12.5°	1720.7	1730.5	1747.0	1786.3	1848.0	1930.0	2037.1	2156.5	2171.7	2250.0	2171.7
15°	1644.2	1649.2	1665.7	1704.2	1764.2	1840.0	1948.4	2087.3	2100.8	2234.8	2169.9
17.5°	1608.1	1613.7	1625.3	1655.9	1705.5	1775.8	1881.7	2031.6	2048.7	2225.0	2176.7
20°	1617.9	1622.8	1623.5	1639.4	1673.0	1732.4	1832.7	1979.6	2001.6	2218.9	2187.6
22.5°	1673.7	1674.2	1666.9	1659.6	1671.2	1714.0	1802.8	1946.5	1969.2	2217.6	2200.5
25°	1756.8	1758.7	1746.5	1720.7	1697.5	1719.5	1796.0	1925.2	1945.3	2214.6	2208.5
27.5°	1871.9	1871.3	1867.6	1824.8	1758.7	1744.0	1801.5	1913.5	1930.6	2206.0	2211.5
30°	2032.8	2028.0	2020.0	1971.7	1870.7	1803.3	1824.8	1906.1	1922.0	2193.7	2203.5
32.5°	2191.3	2209.7	2208.5	2162.6	2036.5	1909.2	1873.1	1915.9	1927.6	2185.8	2191.9
35°	2376.1	2375.5	2422.6	2405.5	2258.0	2044.5	1955.7	1948.4	1957.6	2191.3	2186.4
37.5°	2547.5	2563.4	2636.8	2654.5	2519.9	2235.4	2072.6	2018.1	2021.2	2228.7	2199.9
40°	2761.0	2791.6	2901.2	2960.5	2841.8	2518.7	2245.2	2146.0	2146.7	2320.4	2250.7
42.5°	3036.4	3084.7	3186.9	3286.1	3222.4	2854.0	2504.0	2348.6	2347.4	2482.0	2366.9
45°	3371.1	3404.8	3521.1	3678.3	3637.9	3322.2	2881.0	2662.5	2646.6	2746.9	2573.2
47.5°	3660.0	3705.9	3823.9	4003.2	4186.8	3893.7	3331.4	3093.9	3083.5	3168.6	2926.9
50°	3786.0	3826.4	3950.6	4202.1	4647.0	4643.9	4002.0	3723.6	3705.9	3751.7	3473.9
52.5°	3647.7	3685.7	3811.1	4124.4	4863.6	5558.1	4973.8	4513.6	4492.1	4433.4	4127.4
55°	3174.0	3205.3	3390.7	3750.5	4780.4	6167.6	6312.6	5489.6	5406.4	5178.1	4867.3
57.5°	2527.3	2511.4	2626.4	3044.4	4292.1	6372.1	7687.0	6705.5	6556.8	5821.9	5493.3
60°	1751.3	1800.3	1846.8	2122.2	3227.3	6017.7	8541.9	8234.1	8038.3	6455.2	6093.0
62.5°	1287.5	1319.9	1350.5	1477.8	2029.1	4804.9	8693.0	9804.3	9630.5	7127.7	6665.1
65°	1018.2	1020.7	1032.9	1158.4	1337.1	3124.5	7966.7	10689.8	10645.1	7775.2	6897.1
66°	927.7	928.3	947.3	1081.9	1200.0	2544.4	7384.8	10757.1	10781.6	7930.6	6829.1
67.5°	810.8	808.4	835.9	972.3	1092.9	1834.6	6343.2	10484.2	10629.2	8049.9	6585.0
70°	628.4	625.4	659.1	815.7	1006.6	1223.8	4216.2	9002.1	9235.9	7805.7	5826.1
72.5°	418.6	421.0	478.5	643.8	960.7	1077.6	2536.5	6848.1	7178.5	6446.0	4583.4
75°	244.1	248.4	313.9	478.5	834.1	1027.5	1435.6	4883.2	5094.3	4451.2	2855.3
77.5°	127.9	129.7	175.6	315.8	639.5	954.0	956.4	3119.6	3218.8	2163.2	1130.3
80°	67.9	66.1	94.3	190.3	440.0	837.7	776.0	1651.6	1717.0	642.5	285.8
82.5°	25.7	28.1	50.2	124.8	260.0	601.5	668.2	730.1	707.4	141.3	120.0
85°	4.9	6.1	21.5	74.1	130.9	251.5	492.6	358.0	331.7	53.2	69.1
87.5°	0.6	1.3	6.1	17.8	18.9	85.0	145.6	99.1	85.7	19.6	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P646776
 CATALOG NUMBER: GALN-SA2C-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5	2148.5
2.5°	2149.7	2133.2	2078.1	2023.7	1968.0	1917.8	1883.5	1827.8	1813.7	1793.5	1782.0
5°	2145.4	2106.9	2001.0	1885.4	1777.6	1661.4	1572.7	1487.0	1441.1	1417.9	1409.2
7.5°	2133.2	2072.0	1906.8	1725.7	1553.1	1379.3	1228.1	1113.1	1039.0	988.3	954.0
10°	2108.7	2024.3	1797.2	1548.1	1287.5	1058.0	866.5	720.8	608.2	572.8	574.0
12.5°	2083.6	1971.0	1674.8	1351.1	1028.1	738.6	535.4	420.4	366.5	348.8	345.1
15°	2060.4	1920.2	1554.9	1160.2	765.5	478.5	345.1	304.7	290.0	287.0	286.4
17.5°	2048.1	1873.1	1427.0	941.8	534.2	324.9	276.6	265.6	261.3	258.2	257.0
20°	2037.8	1832.1	1304.6	737.4	365.3	266.2	247.8	237.4	230.1	227.0	225.2
22.5°	2030.4	1789.9	1177.9	571.0	279.7	236.2	219.7	206.2	195.8	192.1	189.7
25°	2019.4	1743.3	1050.1	417.3	235.6	209.9	190.9	175.0	161.5	154.8	153.6
27.5°	2003.5	1690.7	909.9	309.1	210.5	186.7	163.4	143.8	130.4	123.0	123.6
30°	1977.8	1635.7	769.8	245.4	190.3	162.8	137.7	118.7	105.9	100.4	99.8
32.5°	1947.2	1569.0	641.3	210.5	171.9	141.3	115.0	98.5	88.7	84.4	83.9
35°	1918.4	1501.6	510.4	189.1	153.0	121.8	96.7	82.6	75.2	71.6	72.2
37.5°	1902.5	1441.7	397.8	171.9	137.7	104.6	83.2	71.0	64.3	61.2	60.6
40°	1912.9	1392.7	316.3	156.7	120.6	90.0	71.6	61.2	54.5	50.2	50.2
42.5°	1961.8	1371.3	255.2	142.0	104.6	77.8	62.4	52.6	45.3	41.0	41.6
45°	2111.1	1394.0	213.5	128.5	90.0	67.3	53.9	43.5	36.7	33.7	33.0
47.5°	2359.0	1479.0	184.8	114.4	77.1	57.6	45.3	36.1	29.4	26.9	26.3
50°	2792.3	1654.6	163.4	100.4	65.5	48.9	37.3	28.7	23.3	20.8	20.8
52.5°	3388.3	2037.8	148.1	84.4	55.0	41.6	30.6	23.3	18.3	16.5	15.9
55°	4011.2	2441.6	140.2	71.0	45.9	34.3	24.5	18.3	14.1	12.2	11.6
57.5°	4610.3	2758.6	130.9	57.6	36.7	26.3	18.9	14.1	9.8	8.5	8.0
60°	5184.9	3014.9	111.3	45.9	28.7	18.9	14.1	9.8	6.7	5.5	5.5
62.5°	5698.9	3164.3	87.5	36.7	22.0	13.5	9.2	7.4	4.9	3.7	3.7
65°	5758.9	2970.3	66.1	28.1	15.9	8.5	5.5	5.5	3.7	2.4	2.4
66°	5638.3	2805.7	58.1	25.7	14.1	7.4	4.9	4.3	3.1	1.8	1.8
67.5°	5369.0	2524.8	50.2	22.0	11.6	5.5	3.7	3.7	2.4	1.3	1.3
70°	4639.0	2062.2	39.8	16.5	8.5	4.3	2.4	2.4	1.8	1.3	1.3
72.5°	3535.7	1539.6	32.4	12.2	6.1	3.1	1.8	1.8	1.8	1.3	1.3
75°	2132.6	829.2	25.1	9.2	5.5	2.4	1.3	1.8	2.4	1.8	1.3
77.5°	785.7	282.1	19.6	7.4	4.3	2.4	1.3	1.3	2.4	1.8	1.8
80°	192.8	73.4	14.1	6.1	4.3	2.4	1.3	1.3	2.4	2.4	2.4
82.5°	89.3	31.2	9.8	5.5	4.3	2.4	1.3	1.3	1.8	2.4	2.4
85°	51.4	14.7	8.0	6.1	4.3	2.4	1.3	1.3	1.8	2.4	2.4
87.5°	20.8	7.4	7.4	6.1	4.9	3.1	1.3	1.3	1.3	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)