

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: STREETWORKS

Report Number: P270909

Luminaire Tested: **NVN-AF-03-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-03-LED-U-SL2-7027-800-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 10372.3 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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: 28.75 FT

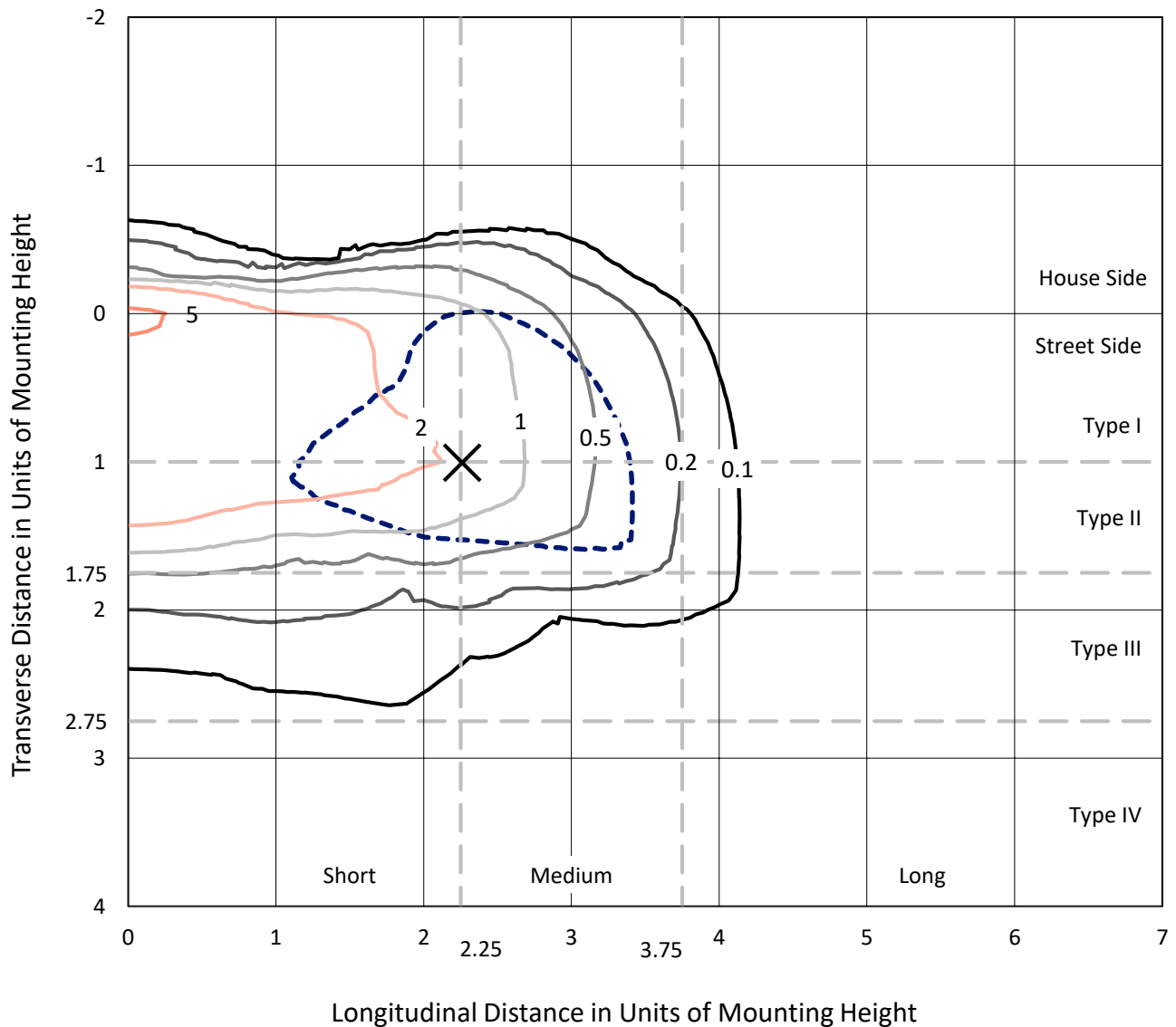


REPORT NUMBER: P270909

CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

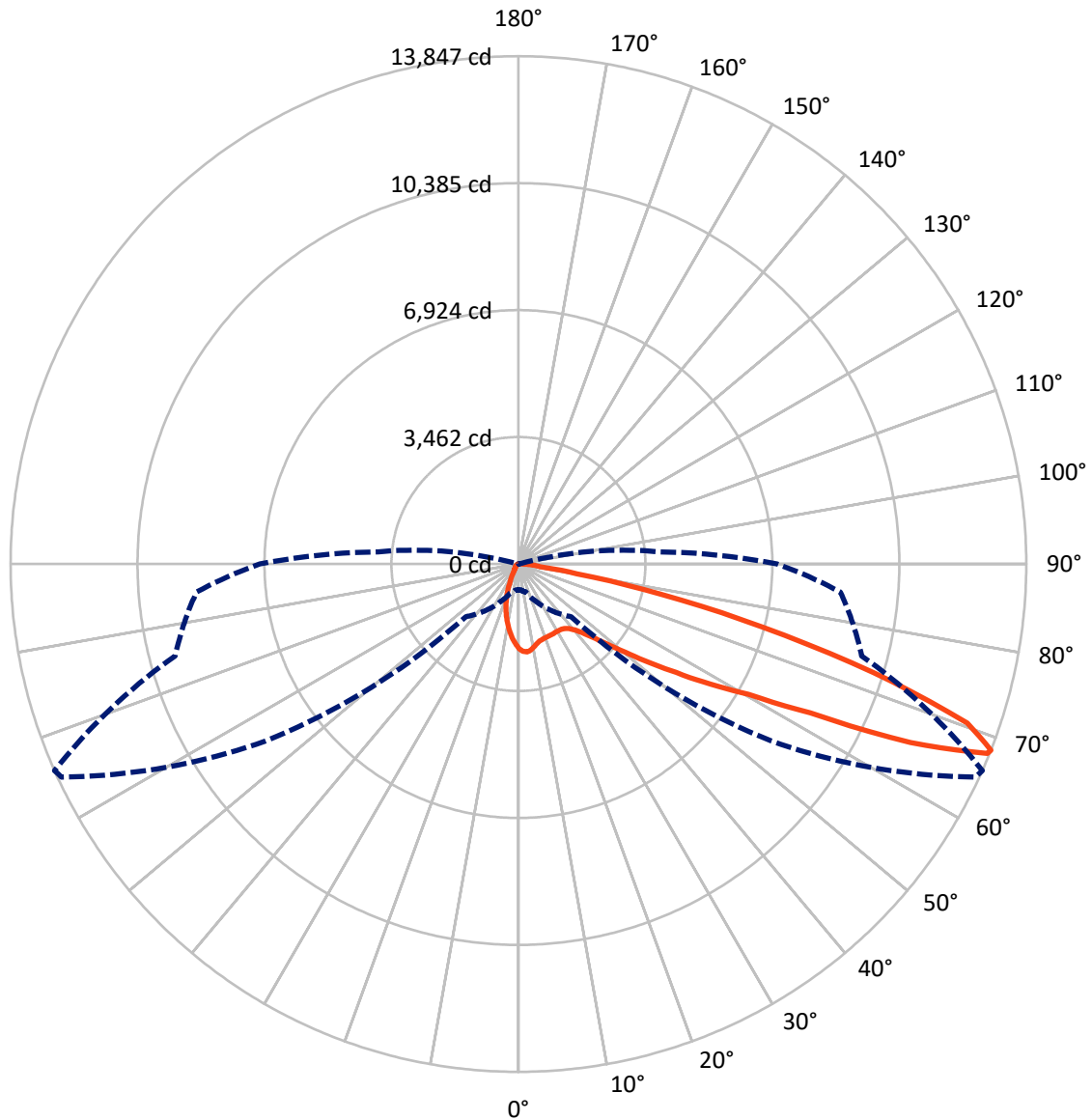


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P270909

CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P270909

CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

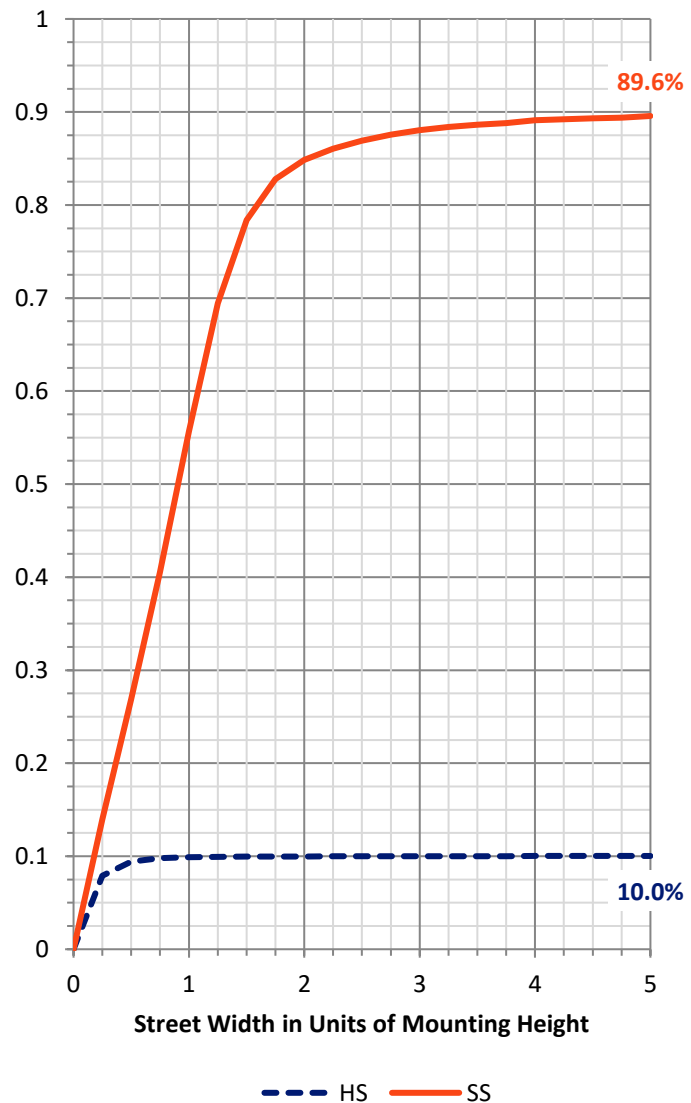
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.6	0.0	1050.6
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	9321.7	0.0	9321.7
	% Fixture	89.9	0.0	89.9
Total	Lumens	10372.3	0.0	10372.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	1.8
10°-20°	407.6	3.9
20°-30°	590.7	5.7
30°-40°	904.2	8.7
40°-50°	1546.5	14.9
50°-60°	2419.2	23.3
60°-70°	2785.7	26.9
70°-80°	1394.0	13.4
80°-90°	135.0	1.3
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°-90°	10372.3	100.0
0°-180°	10372.3	100.0

Coefficient of Utilization



REPORT NUMBER: P270909

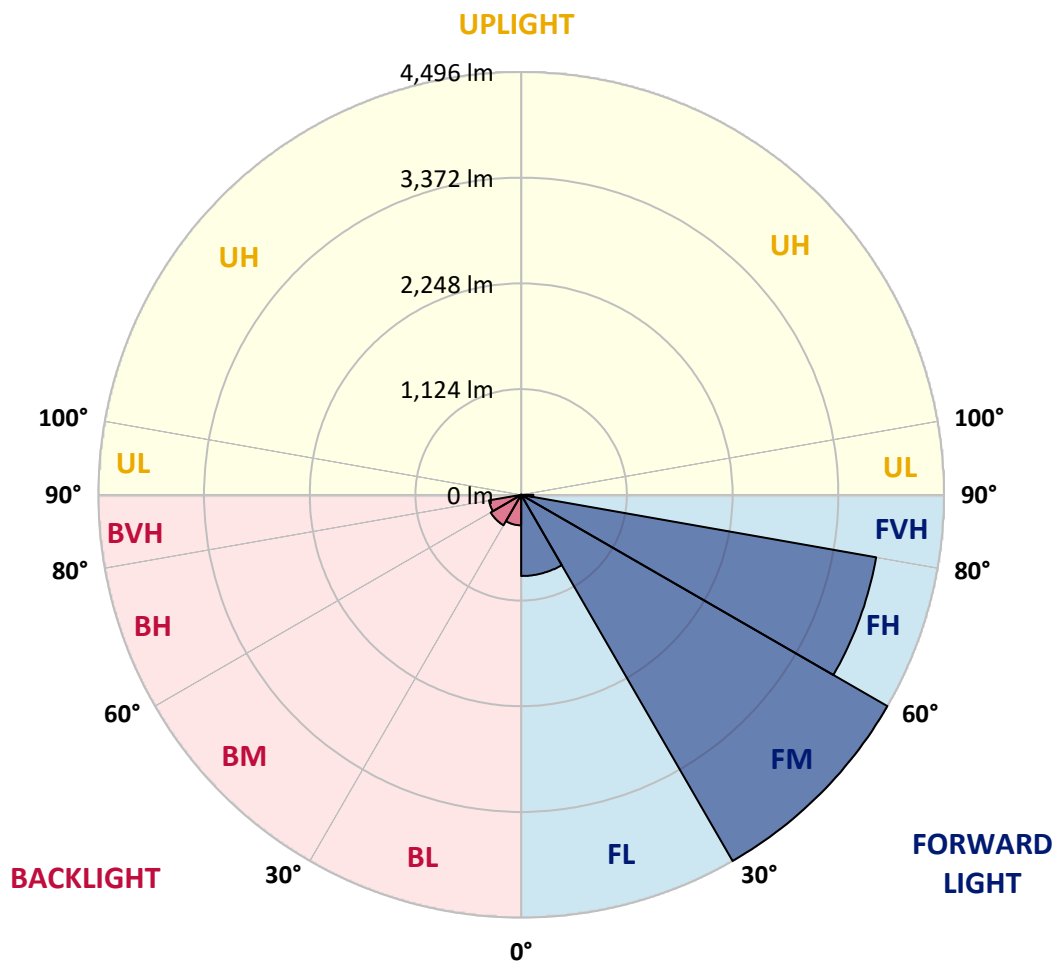
CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.4	8.3			
FM (30°-60°)	4495.8	43.3			
FH (60°-80°)	3832.5	36.9			G2/5000
FVH (80°-90°)	129.9	1.3			G2/225
BL (0°-30°)	324.3	3.1	B1/500		
BM (30°-60°)	374.1	3.6	B1/1000		
BH (60°-80°)	347.1	3.3	B1/500		G1/500
BVH (80°-90°)	5.1	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 Medium





REPORT NUMBER: P270909

CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9
2.5°	2430.5	2432.3	2431.4	2433.8	2432.3	2419.9	2406.9	2379.3	2381.6	2345.8	2305.9
5°	2259.5	2273.4	2287.3	2301.1	2334.4	2363.8	2398.7	2406.9	2406.9	2375.9	2317.4
7.5°	2085.2	2086.1	2101.6	2120.3	2165.1	2218.9	2300.3	2373.5	2375.2	2383.4	2319.0
10°	1954.3	1958.2	1968.8	1989.2	2034.0	2086.9	2178.1	2293.0	2301.8	2362.2	2302.7
12.5°	1852.5	1857.3	1868.7	1892.3	1933.1	1987.6	2083.7	2214.9	2227.0	2341.8	2297.9
15°	1774.2	1780.8	1789.8	1813.4	1857.3	1915.1	2020.2	2162.7	2177.3	2333.6	2313.2
17.5°	1741.6	1741.6	1740.8	1757.2	1801.1	1859.8	1969.7	2135.0	2153.6	2340.2	2339.4
20°	1755.6	1753.1	1736.0	1731.9	1758.8	1817.5	1929.7	2117.0	2138.2	2352.4	2371.0
22.5°	1828.8	1823.9	1785.7	1753.9	1745.8	1784.8	1902.9	2104.9	2130.2	2377.6	2413.4
25°	1984.4	1969.7	1916.8	1845.1	1780.8	1776.7	1884.1	2098.4	2125.2	2406.9	2459.9
27.5°	2186.3	2182.3	2097.5	2001.5	1877.6	1803.5	1878.4	2093.4	2120.3	2428.1	2497.3
30°	2437.0	2438.7	2341.0	2215.6	2028.4	1879.3	1896.4	2091.1	2118.7	2429.7	2513.5
32.5°	2696.1	2697.6	2616.3	2481.8	2234.4	2009.6	1946.8	2102.5	2127.6	2423.2	2512.7
35°	2945.2	2947.6	2898.7	2790.4	2509.5	2190.3	2042.1	2141.5	2159.3	2427.3	2511.1
37.5°	3260.3	3270.0	3209.7	3108.9	2854.8	2455.7	2197.7	2220.5	2235.2	2460.6	2523.3
40°	3797.7	3784.6	3612.1	3441.0	3229.3	2779.0	2422.4	2356.4	2361.4	2547.0	2569.8
42.5°	4423.9	4407.5	4112.0	3817.2	3614.5	3169.1	2709.8	2564.9	2564.1	2692.0	2670.8
45°	4962.9	4953.2	4642.0	4248.8	4041.1	3599.8	3063.9	2865.4	2855.6	2942.7	2854.8
47.5°	5345.5	5337.4	5102.2	4707.9	4534.6	4073.8	3506.2	3275.0	3254.6	3270.9	3153.6
50°	5383.1	5374.1	5291.8	5038.7	5111.0	4769.1	4052.6	3811.5	3785.5	3760.2	3605.4
52.5°	5032.9	5032.0	5075.2	5059.0	5515.0	5664.0	4722.7	4475.1	4444.2	4379.9	4225.9
55°	4317.2	4313.1	4476.8	4714.6	5506.0	6587.4	5744.5	5265.0	5224.3	5095.5	4893.6
57.5°	3154.4	3133.3	3475.3	3979.2	5119.3	6991.1	7367.4	6246.2	6178.5	5770.6	5459.5
60°	1741.6	1749.8	2189.4	2786.4	4203.2	6911.4	8860.7	7390.1	7212.6	6352.9	6039.3
62.5°	976.3	996.7	1324.0	1811.0	2679.7	6264.1	9661.9	9359.0	8931.6	7031.9	6772.1
65°	738.5	750.8	915.3	1397.3	1689.6	4377.4	9789.8	12111.9	11743.2	8061.1	7939.0
67.5°	695.4	705.1	785.7	1158.6	1538.9	2270.1	8827.4	13740.6	13786.9	9464.9	8842.7
68°	700.3	712.4	793.1	1114.6	1536.6	2030.8	8416.8	13748.6	13847.3	9691.3	8811.8
70°	643.2	646.5	838.7	1093.5	1489.3	1600.1	6089.0	12806.5	12983.3	9960.8	7999.1
72.5°	245.9	246.8	376.2	947.0	1560.0	1609.0	3067.4	10122.0	10130.9	8668.6	6236.4
75°	127.7	107.4	118.0	296.4	1490.1	1568.3	1538.9	6911.4	6868.3	5862.6	3821.3
77.5°	87.9	74.9	79.1	102.5	619.7	1567.5	1111.5	3974.5	3965.4	2494.1	1090.4
80°	49.6	43.2	47.3	86.2	217.4	1471.3	1035.7	1708.2	1609.9	438.1	176.6
82.5°	25.2	21.2	25.2	72.5	135.1	925.9	1007.2	670.1	596.8	104.3	114.9
85°	6.5	6.5	12.1	50.5	83.9	303.6	902.9	483.6	434.8	45.6	81.4
87.5°	1.6	0.8	4.9	18.8	30.2	65.9	500.7	269.5	232.0	23.6	47.3
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: P270909

CATALOG NUMBER: NVN-AF-03-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9
2.5°	2289.7	2267.0	2222.0	2171.7	2135.8	2096.7	2073.8	2046.2	2025.0	2006.4	2020.2
5°	2281.5	2237.6	2138.2	2026.7	1933.1	1843.5	1776.7	1713.2	1665.2	1635.1	1647.2
7.5°	2260.3	2195.2	2034.0	1859.8	1706.7	1562.5	1445.4	1340.2	1258.9	1214.9	1228.7
10°	2224.6	2132.5	1915.9	1674.1	1459.9	1256.4	1082.2	925.9	807.8	752.4	765.4
12.5°	2198.5	2077.2	1793.7	1495.0	1213.3	924.1	693.0	513.8	421.8	366.4	371.3
15°	2187.1	2034.0	1679.8	1306.0	943.7	593.6	374.6	271.2	239.4	228.0	228.8
17.5°	2188.7	1999.7	1571.6	1109.9	671.8	341.1	229.6	206.8	201.8	199.6	199.6
20°	2192.9	1965.6	1459.1	905.4	429.8	219.8	191.3	184.1	181.5	178.4	179.1
22.5°	2205.0	1939.5	1346.0	700.3	264.6	179.1	169.4	162.9	158.8	153.9	154.7
25°	2223.8	1919.9	1234.5	503.9	186.5	156.3	147.4	138.3	131.2	125.5	126.2
27.5°	2235.2	1892.3	1115.5	343.6	154.7	136.8	124.5	112.4	104.3	99.4	98.5
30°	2227.0	1847.5	980.4	225.6	136.8	118.0	103.5	89.7	81.4	77.3	77.3
32.5°	2205.0	1789.8	831.3	164.5	121.4	101.8	83.9	71.7	65.9	63.5	64.3
35°	2179.7	1729.4	672.7	139.2	109.1	86.2	68.5	58.6	56.1	55.3	55.3
37.5°	2166.0	1677.3	520.3	126.2	97.7	71.7	56.1	50.5	48.0	48.0	48.0
40°	2181.4	1637.5	385.2	116.4	86.2	59.5	47.3	43.2	42.3	42.3	42.3
42.5°	2247.3	1623.6	281.7	108.2	74.9	49.6	40.8	37.5	36.7	37.5	37.5
45°	2375.9	1653.8	213.3	100.2	64.3	40.8	35.0	32.6	32.6	33.3	33.3
47.5°	2594.2	1731.2	175.1	91.9	53.8	34.1	30.2	28.4	28.4	29.4	29.4
50°	2933.0	1874.5	157.2	83.1	44.7	29.4	25.2	24.4	24.4	25.2	26.1
52.5°	3447.5	2147.2	148.2	74.1	36.7	24.4	21.2	20.3	21.2	22.0	22.0
55°	4019.9	2496.5	137.6	65.1	30.9	20.3	17.1	17.1	18.0	19.6	19.6
57.5°	4553.2	2833.7	127.7	53.8	26.9	16.3	13.8	13.8	15.5	17.1	17.1
60°	5116.7	3164.2	114.9	43.2	22.7	13.0	11.4	11.4	13.8	15.5	16.3
62.5°	5812.9	3548.6	97.7	34.1	18.0	9.8	8.2	10.6	13.0	15.5	15.5
65°	6819.4	4026.6	76.5	26.9	13.8	7.4	6.5	9.8	12.1	14.6	15.5
67.5°	7185.0	3965.4	57.9	22.0	10.6	5.7	5.7	9.0	12.1	14.6	14.6
68°	7051.4	3831.9	55.3	21.2	9.8	5.7	5.7	9.0	12.1	14.6	14.6
70°	6144.3	3132.4	45.6	16.3	8.2	4.9	4.9	8.2	12.1	13.8	14.6
72.5°	4600.5	2081.3	39.0	10.6	7.4	4.9	4.0	8.2	11.4	13.8	13.8
75°	2639.0	863.9	33.3	8.2	6.5	4.0	4.0	7.4	11.4	13.8	13.8
77.5°	745.9	201.8	26.9	6.5	5.7	4.0	3.2	7.4	10.6	13.0	13.0
80°	136.8	60.2	21.2	5.7	4.9	4.0	3.2	7.4	10.6	13.0	13.0
82.5°	90.4	28.4	15.5	5.7	4.9	4.0	3.2	6.5	9.8	12.1	12.1
85°	67.6	20.3	9.8	5.7	4.9	4.0	3.2	6.5	9.8	12.1	12.1
87.5°	37.5	9.0	7.4	6.5	5.7	4.0	3.2	5.7	9.0	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

(END OF REPORT)