

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: P199966

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL3-7030-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8153.3 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

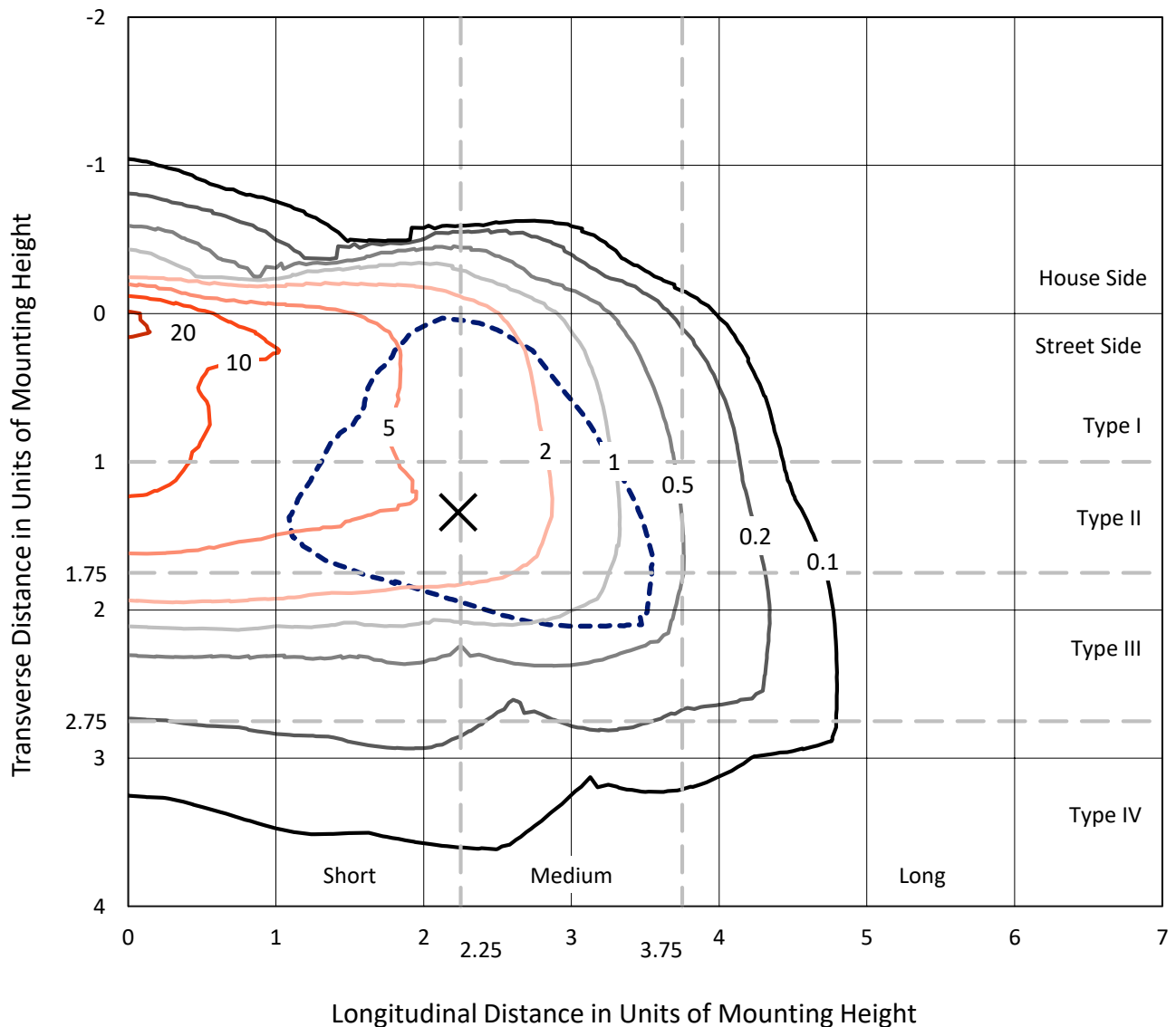


REPORT NUMBER: P199966

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

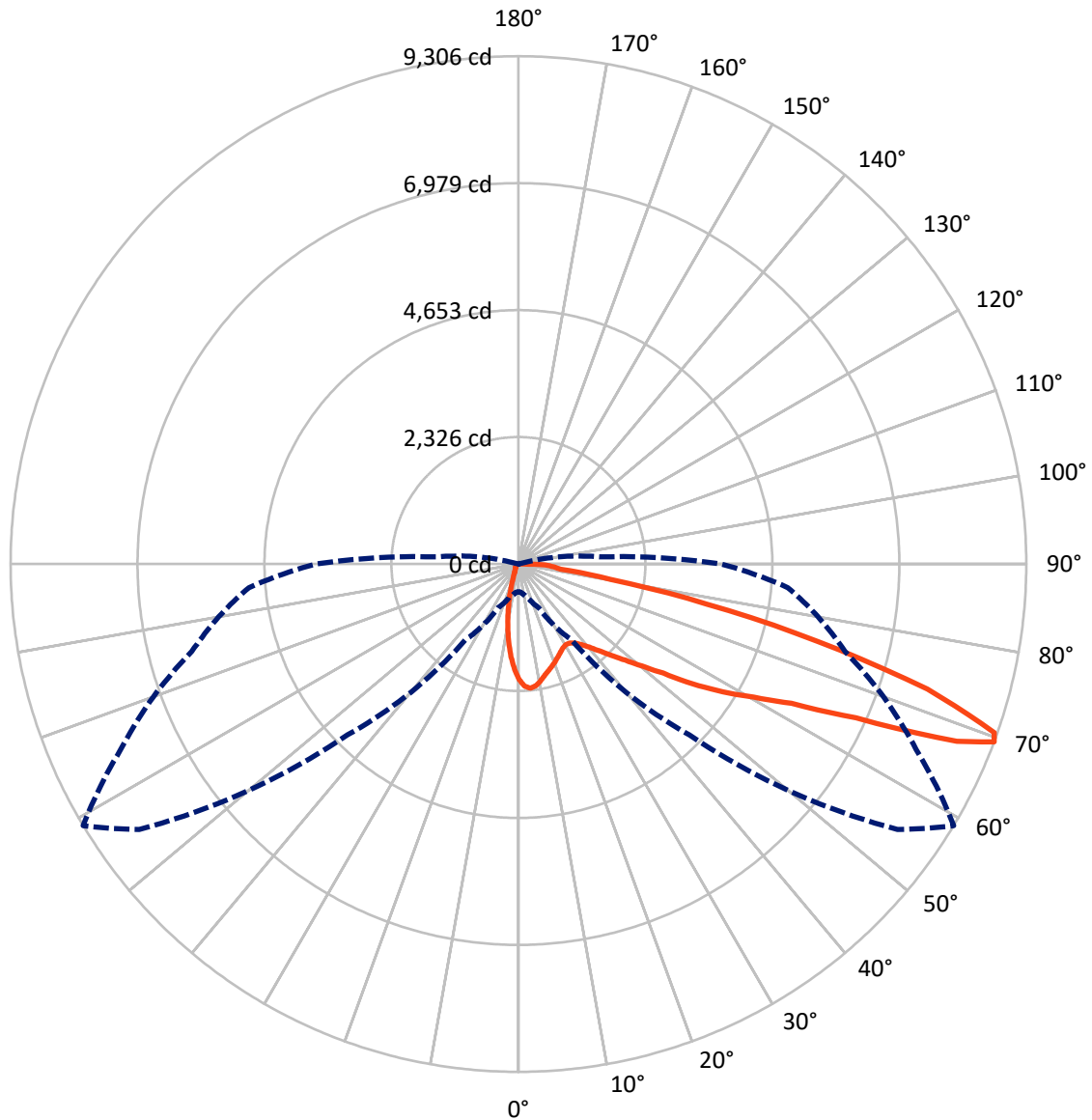


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P199966

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P199966

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

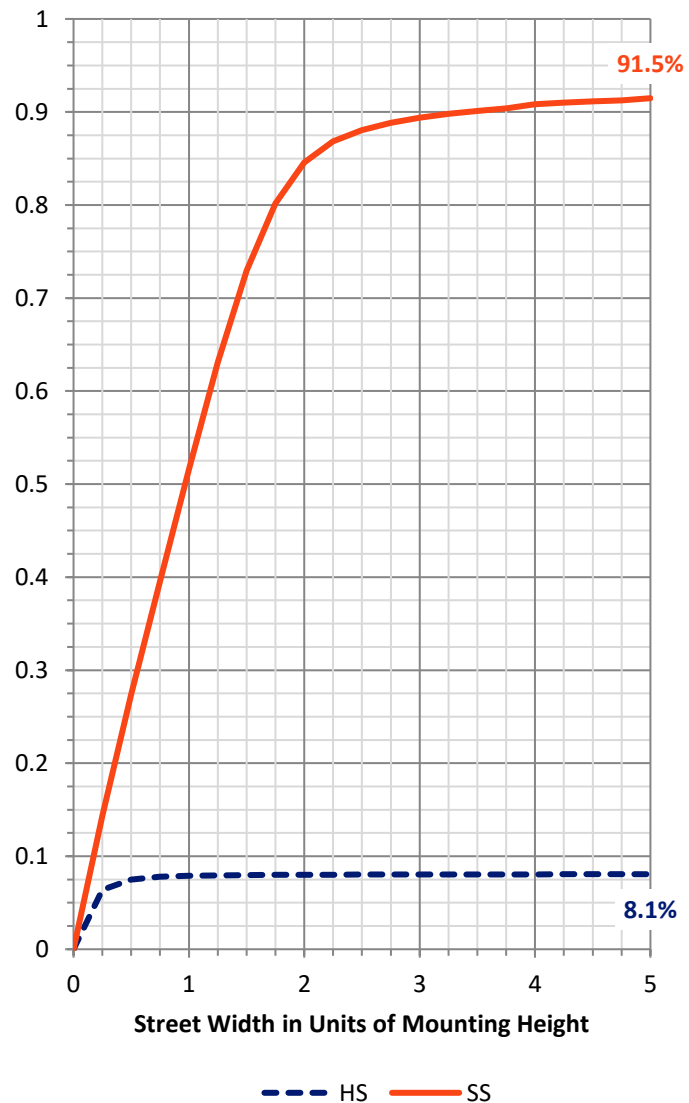
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.0	0.0	664.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7489.3	0.0	7489.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	8153.3	0.0	8153.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	2.1
10°-20°	355.9	4.4
20°-30°	479.0	5.9
30°-40°	695.4	8.5
40°-50°	1157.9	14.2
50°-60°	1806.3	22.2
60°-70°	2235.2	27.4
70°-80°	1132.8	13.9
80°-90°	118.5	1.5
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°	8153.3	100.0
0°-180°	8153.3	100.0



REPORT NUMBER: P199966

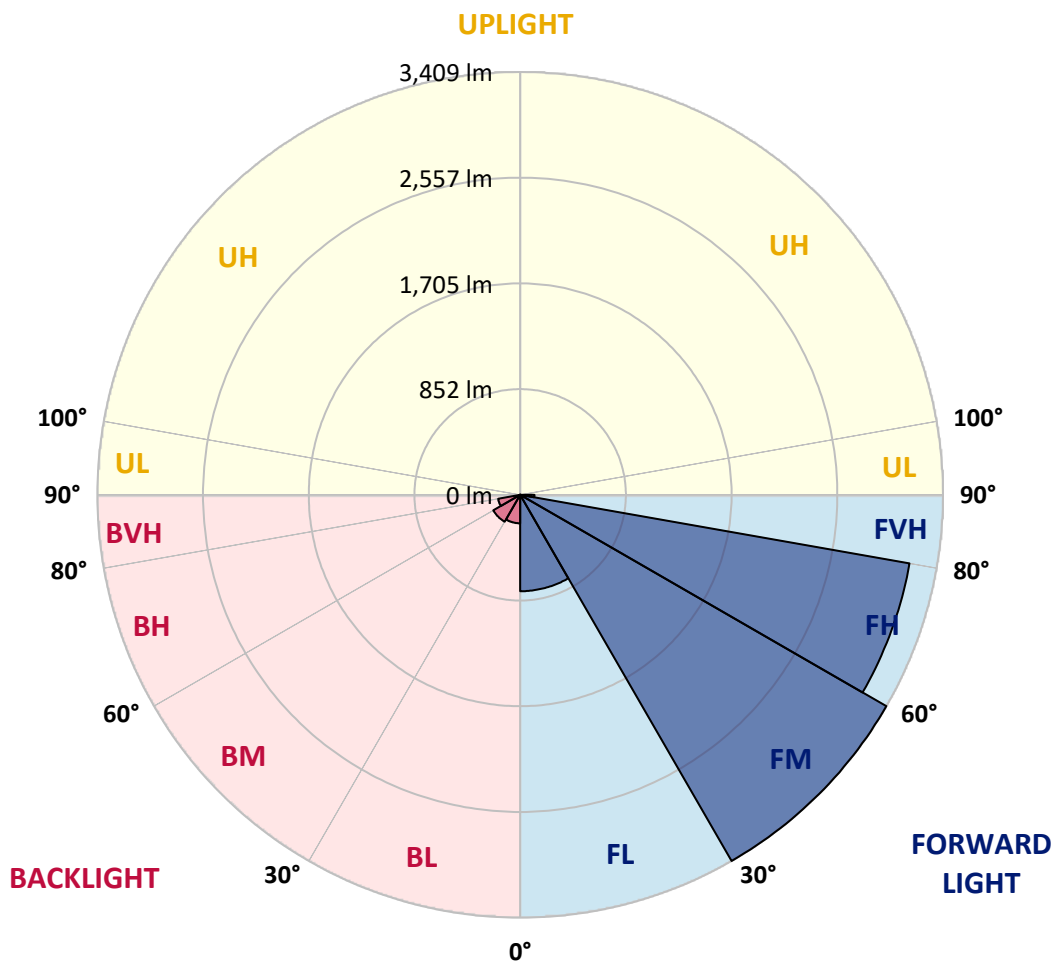
CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.3	9.5			
FM (30°-60°)	3409.5	41.8			
FH (60°-80°)	3187.6	39.1			G2/5000
FVH (80°-90°)	114.9	1.4			G2/225
BL (0°-30°)	229.8	2.8	B1/500		
BM (30°-60°)	250.2	3.1	B1/1000		
BH (60°-80°)	180.3	2.2	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Short





REPORT NUMBER: P199966

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2
2.5°	2326.0	2325.0	2315.0	2310.3	2302.0	2284.4	2257.3	2243.0	2219.9	2179.8	2125.9
5°	2304.7	2315.8	2321.8	2322.3	2328.3	2321.8	2297.3	2285.4	2253.6	2189.1	2092.2
7.5°	2160.9	2165.1	2182.1	2196.9	2225.5	2252.7	2261.5	2256.3	2237.4	2168.3	2039.7
10°	2006.9	2011.1	2031.4	2050.7	2089.5	2131.4	2175.6	2184.9	2192.7	2138.8	1989.0
12.5°	1874.2	1878.3	1899.1	1924.4	1969.6	2021.2	2089.9	2105.2	2139.7	2110.7	1948.4
15°	1759.8	1761.7	1781.9	1813.3	1867.3	1933.7	2011.5	2036.0	2089.0	2090.8	1912.9
17.5°	1662.6	1667.2	1679.6	1709.6	1768.6	1850.6	1941.5	1976.5	2038.7	2074.3	1878.3
20°	1603.1	1607.7	1607.2	1623.8	1676.8	1764.4	1871.4	1913.4	1989.0	2057.2	1847.4
22.5°	1591.6	1591.6	1579.5	1577.3	1608.5	1681.9	1798.5	1849.7	1944.2	2049.8	1825.7
25°	1632.6	1630.8	1600.8	1576.3	1577.7	1621.5	1728.0	1788.9	1906.4	2054.9	1814.2
27.5°	1719.3	1716.9	1679.1	1632.6	1595.2	1594.8	1674.5	1740.0	1876.4	2078.9	1818.8
30°	1839.1	1838.2	1797.1	1738.6	1670.8	1608.5	1656.1	1715.5	1857.1	2122.2	1829.5
32.5°	1970.1	1968.7	1937.7	1876.0	1790.3	1670.8	1675.4	1725.2	1862.7	2179.8	1855.2
35°	2108.8	2106.5	2093.2	2039.2	1944.7	1785.6	1739.0	1777.8	1897.7	2266.1	1905.9
37.5°	2259.1	2261.5	2271.1	2219.5	2120.3	1946.5	1845.6	1871.9	1968.2	2383.2	1988.5
40°	2480.9	2480.5	2483.7	2415.9	2320.4	2143.4	1994.4	2002.8	2086.3	2538.5	2113.9
42.5°	2883.4	2855.2	2769.9	2631.7	2535.8	2368.4	2182.1	2173.4	2230.5	2730.7	2289.5
45°	3424.1	3364.2	3143.0	2877.9	2755.2	2621.9	2413.1	2385.0	2421.4	2961.8	2506.2
47.5°	3889.3	3827.1	3514.0	3134.1	2988.1	2862.6	2683.8	2633.0	2645.0	3220.4	2781.0
50°	4047.5	4017.0	3743.7	3357.3	3213.5	3165.5	2997.7	2936.0	2918.9	3519.6	3099.6
52.5°	3992.7	3990.3	3808.2	3502.1	3420.1	3479.0	3392.8	3321.4	3258.6	3835.0	3423.7
55°	3904.6	3916.1	3834.6	3628.9	3626.1	3765.4	3933.2	3873.6	3692.0	4177.5	3703.1
57.5°	3661.6	3710.9	3819.7	3868.6	3982.0	4124.6	4383.2	4418.2	4203.4	4439.9	3935.0
60°	2971.0	3079.4	3435.2	3903.2	4440.8	4795.7	4926.2	4956.2	4622.9	4657.9	4248.1
62.5°	2108.8	2219.5	2670.8	3462.5	4447.7	5677.8	5735.4	5617.8	5084.9	4981.1	4787.9
65°	1119.4	1204.7	1573.5	2499.4	3856.1	5882.5	7150.3	6800.0	5900.0	5616.9	5485.5
67.5°	572.6	598.5	745.1	1223.2	2651.0	5225.0	8418.7	8665.3	7304.8	6247.7	5451.9
69°	506.6	521.9	619.2	884.3	1697.6	4425.6	8480.5	9305.8	8040.2	6195.0	4954.4
70°	490.5	504.0	592.5	800.4	1326.9	3711.5	8243.9	9249.5	8228.3	5994.9	4582.8
72.5°	416.3	427.8	527.5	707.3	1078.4	1842.4	6696.6	7837.7	7383.6	4994.0	3317.2
75°	278.5	316.3	506.2	663.0	1003.2	1046.6	4415.0	5663.9	5261.5	3368.4	1728.0
77.5°	66.8	72.0	143.0	527.5	917.5	921.1	2270.7	3521.0	2871.9	1200.6	408.5
80°	36.0	34.6	40.1	104.6	854.3	864.4	1022.1	1709.1	1025.3	199.1	134.6
82.5°	25.3	24.0	25.8	43.8	268.8	787.5	739.5	773.7	425.1	76.6	60.4
85°	9.2	8.8	14.3	39.6	84.4	452.7	759.8	638.1	344.3	35.0	44.3
87.5°	3.2	2.8	5.6	21.7	25.8	192.7	468.8	482.3	135.5	21.2	20.7
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: P199966

CATALOG NUMBER: GWC-AF-02-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2	2122.2
2.5°	2103.3	2074.7	2022.2	1968.2	1918.4	1858.5	1828.5	1799.0	1786.5	1781.9	1760.3
5°	2042.5	1994.0	1882.4	1770.4	1667.2	1557.4	1485.0	1426.9	1392.9	1376.2	1349.9
7.5°	1964.5	1885.2	1716.0	1543.1	1382.2	1223.6	1106.1	1015.6	953.5	923.5	896.3
10°	1888.9	1783.3	1542.7	1307.0	1088.6	878.3	716.0	598.5	523.3	488.7	466.6
12.5°	1821.1	1684.1	1375.2	1077.0	802.7	556.5	391.4	297.8	251.2	235.1	227.3
15°	1760.7	1593.0	1217.1	858.5	543.6	318.1	214.0	182.2	174.8	174.8	173.8
17.5°	1703.6	1503.5	1064.5	653.3	341.1	194.5	162.7	158.6	158.6	160.5	160.5
20°	1648.7	1418.2	917.0	468.8	214.8	154.5	147.0	146.2	147.0	149.4	149.4
22.5°	1601.7	1340.8	779.1	321.8	159.5	139.2	135.5	134.2	134.6	136.0	136.9
25°	1566.6	1275.2	649.2	218.0	137.4	126.7	122.7	120.3	118.5	118.5	119.4
27.5°	1544.5	1219.9	523.3	158.6	123.5	115.2	108.8	105.2	101.0	98.7	99.6
30°	1528.4	1167.4	405.2	129.5	110.6	102.4	94.1	88.1	82.1	79.3	80.2
32.5°	1522.4	1125.0	302.9	114.4	99.1	89.9	79.8	72.0	65.5	63.2	63.6
35°	1538.5	1091.3	221.8	103.3	89.9	78.4	66.8	58.1	53.1	51.7	52.1
37.5°	1580.9	1073.3	165.9	94.1	81.6	68.7	55.7	47.5	44.3	44.3	44.7
40°	1661.2	1072.9	133.3	87.6	74.2	59.5	46.1	40.1	38.2	39.2	39.6
42.5°	1778.2	1097.3	116.2	81.6	67.8	50.7	38.2	34.2	33.6	34.6	35.0
45°	1938.3	1142.0	107.0	76.6	60.9	42.4	32.2	29.5	29.5	30.9	31.4
47.5°	2134.2	1207.5	99.1	71.4	53.9	35.6	27.7	25.8	26.3	27.7	28.1
50°	2370.3	1290.0	91.3	65.9	48.9	29.5	24.0	22.6	23.1	24.9	25.3
52.5°	2639.0	1401.1	84.9	60.9	42.4	24.5	20.3	19.3	20.3	22.1	22.6
55°	2869.5	1500.7	77.0	56.7	34.2	20.3	16.6	16.6	17.5	19.9	20.3
57.5°	3091.3	1604.9	70.0	48.9	26.7	16.1	13.9	14.3	15.7	17.9	18.5
60°	3416.8	1781.5	61.8	41.0	20.3	12.9	11.5	12.0	13.9	16.1	16.6
62.5°	3969.6	2050.3	53.5	34.2	15.7	10.1	9.2	10.1	12.5	15.3	15.7
65°	4468.5	2159.5	43.8	28.6	12.0	7.8	7.8	9.2	12.0	14.7	15.3
67.5°	4190.4	1817.9	34.2	22.6	9.2	6.0	6.4	8.8	11.5	14.7	15.3
69°	3705.9	1486.4	29.0	17.9	7.8	5.6	6.0	8.8	11.5	14.3	14.7
70°	3328.2	1254.9	25.8	15.3	6.9	5.6	6.0	8.3	11.5	14.3	14.7
72.5°	2229.1	677.7	20.7	11.1	6.4	5.0	5.0	8.3	11.1	13.9	14.3
75°	958.1	187.2	16.6	7.8	5.6	4.6	4.6	7.8	10.6	13.3	14.3
77.5°	175.2	47.5	13.3	6.9	5.6	4.6	4.2	7.4	10.1	12.9	13.3
80°	69.6	23.5	10.6	6.0	5.0	4.2	3.7	6.9	9.7	12.5	12.9
82.5°	42.0	13.3	8.8	5.6	5.0	3.7	3.2	6.0	9.2	12.0	12.5
85°	34.2	9.2	6.9	5.6	4.6	3.7	2.8	5.6	8.3	11.5	12.0
87.5°	16.6	6.4	6.4	5.0	4.6	3.7	2.8	5.0	7.8	11.1	11.5
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)