

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: P269149

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY 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: 10565.7 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - 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: 25 FT

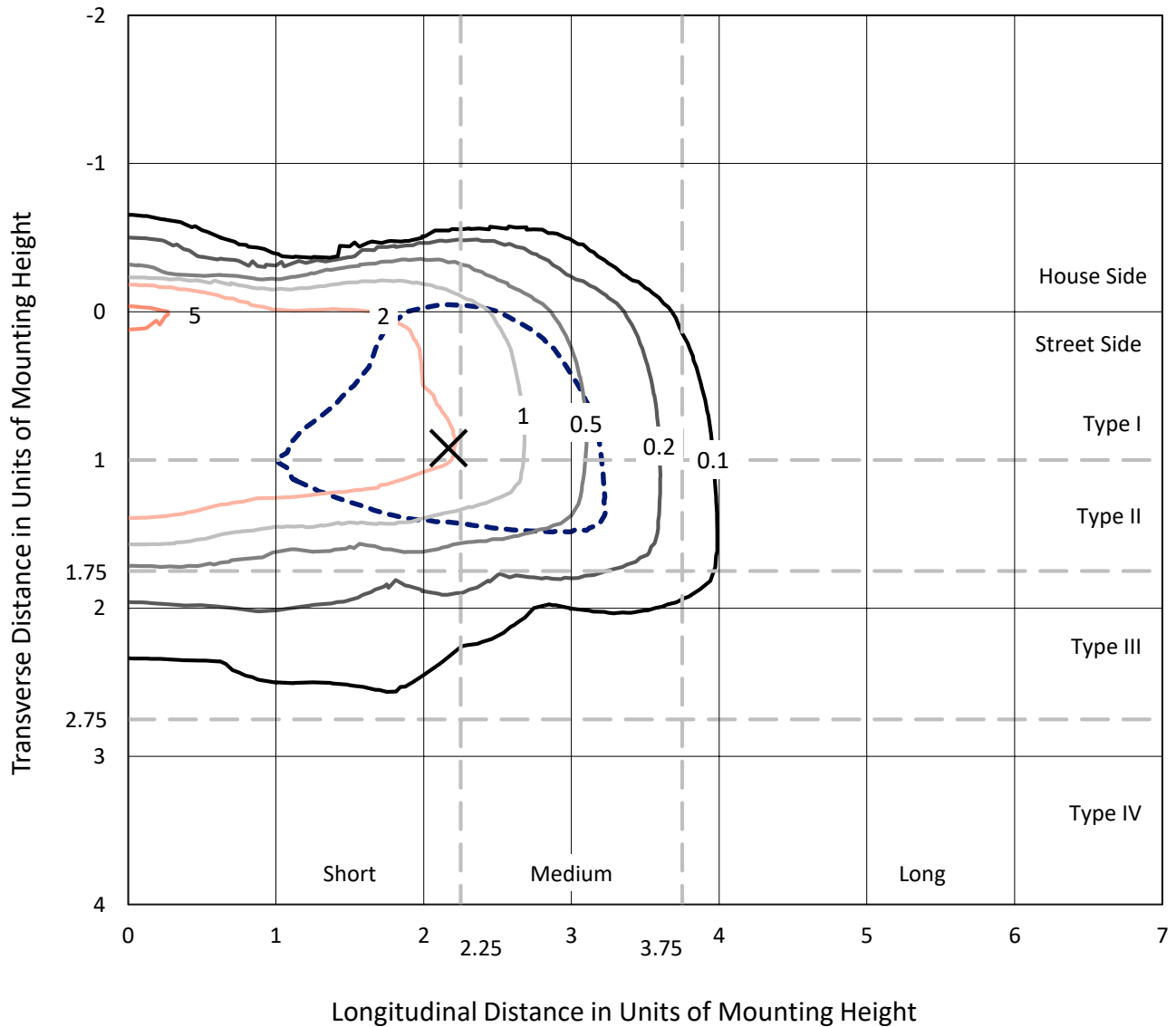


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

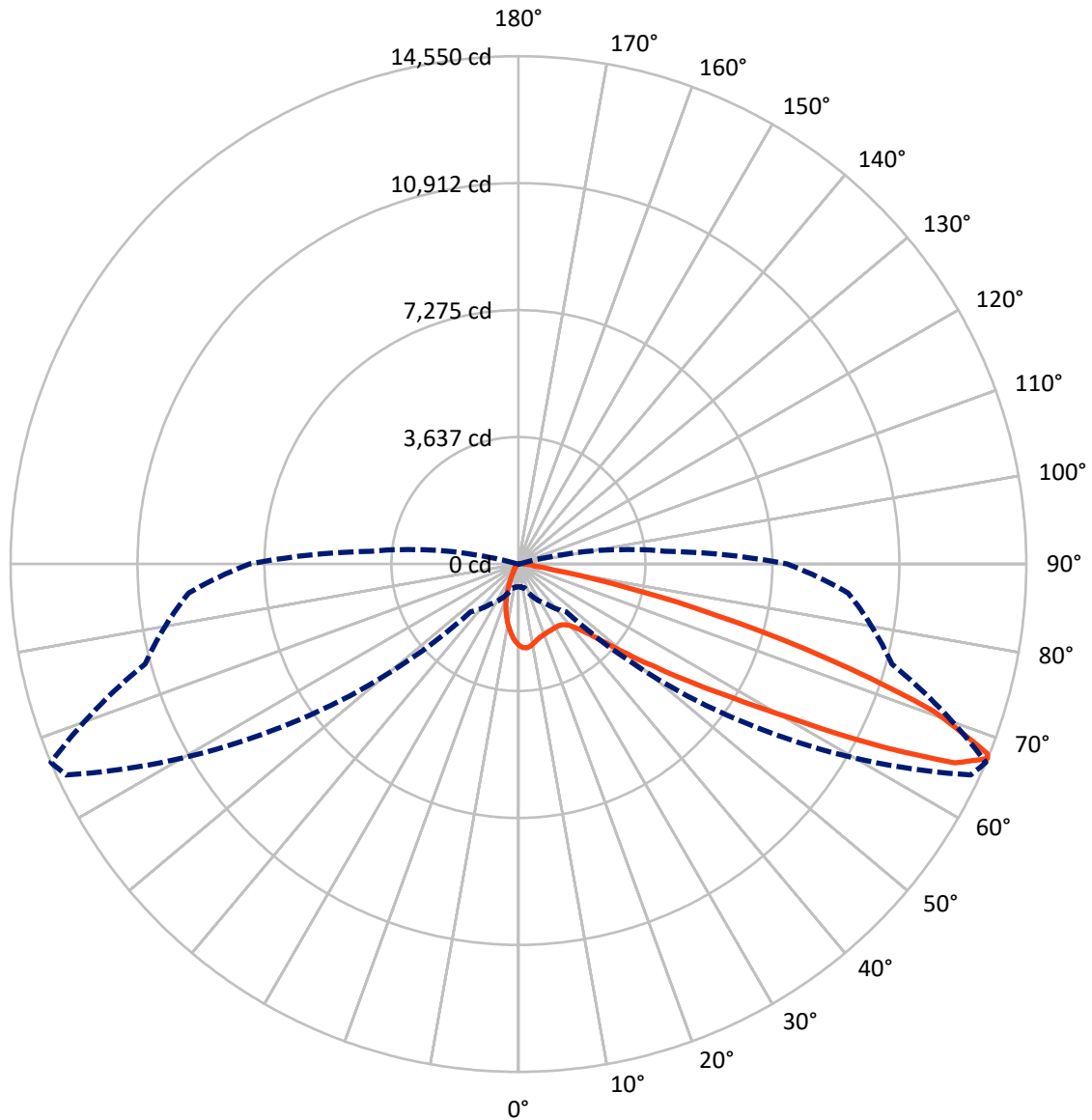


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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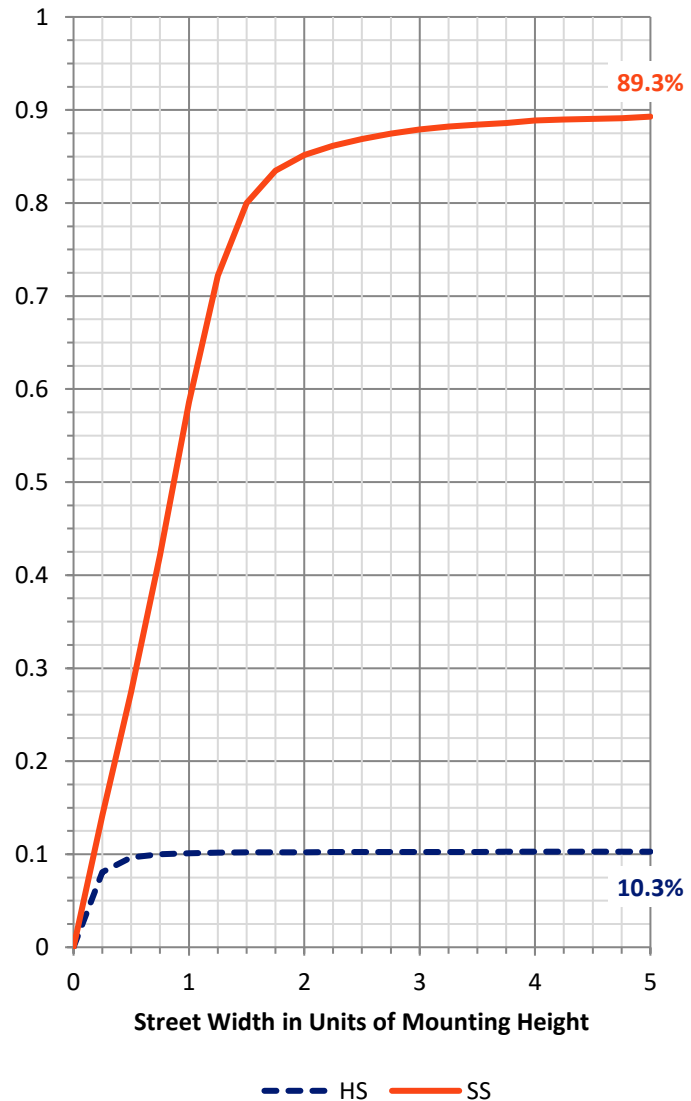
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.1	0.0	1097.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9468.6	0.0	9468.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	10565.7	0.0	10565.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.8
10°-20°	403.5	3.8
20°-30°	586.7	5.6
30°-40°	915.3	8.7
40°-50°	1621.4	15.3
50°-60°	2565.7	24.3
60°-70°	2938.6	27.8
70°-80°	1218.9	11.5
80°-90°	125.9	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°	10565.7	100.0
0°-180°	10565.7	100.0

Coefficient of Utilization



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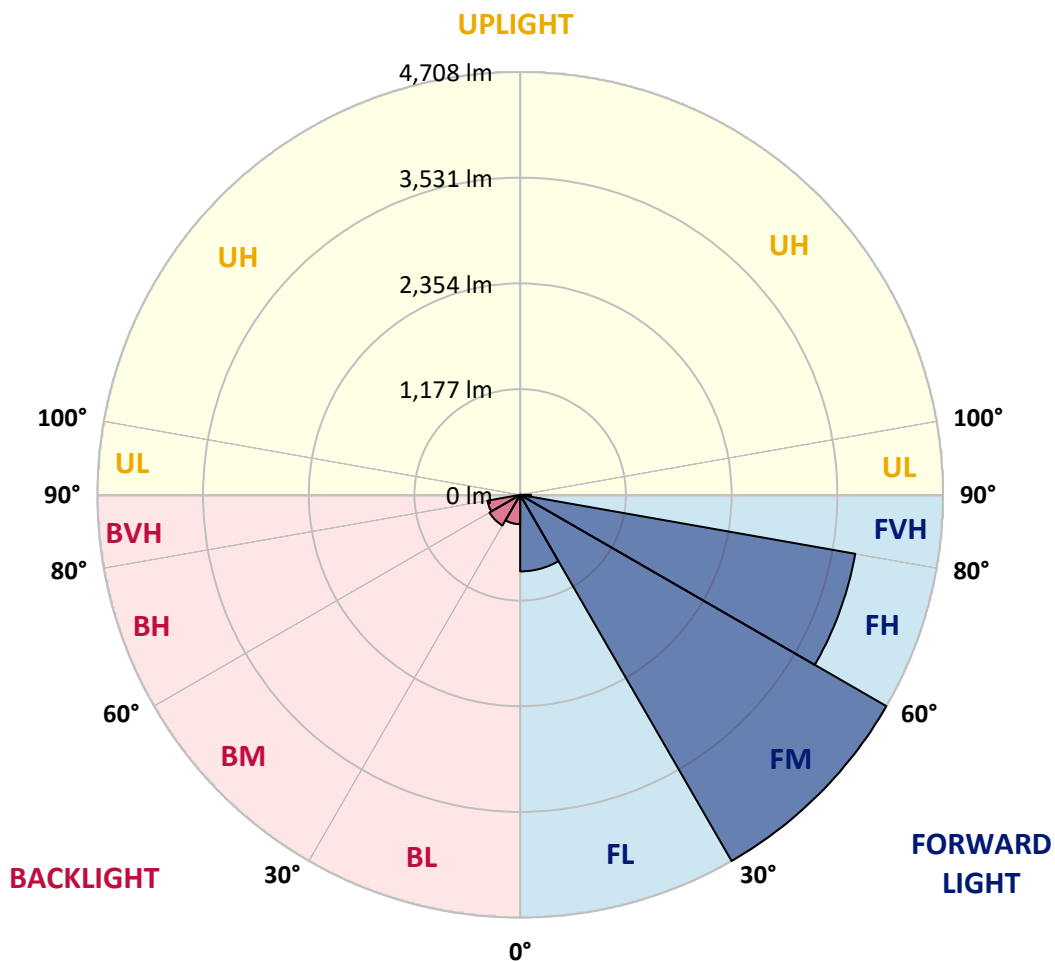
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.5	8.1			
FM	(30°-60°)	4708.1	44.6			
FH	(60°-80°)	3787.8	35.9			G2/5000
FVH	(80°-90°)	120.2	1.1			G2/225
BL	(0°-30°)	327.4	3.1	B1/500		
BM	(30°-60°)	394.3	3.7	B1/1000		
BH	(60°-80°)	369.7	3.5	B1/500		G1/500
BVH	(80°-90°)	5.7	0.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2409.1	2413.9	2413.2	2417.0	2425.7	2426.2	2417.6	2401.0	2397.2	2375.7	2338.1
5°	2221.7	2235.8	2244.4	2279.5	2319.1	2366.4	2402.2	2415.2	2413.2	2397.8	2341.3
7.5°	2007.8	2021.9	2031.8	2073.1	2125.5	2206.9	2299.9	2376.3	2383.2	2399.7	2338.7
10°	1865.4	1867.9	1881.5	1920.9	1975.7	2058.9	2169.9	2303.7	2323.9	2385.0	2332.5
12.5°	1748.3	1750.2	1768.0	1810.7	1869.2	1952.9	2069.4	2224.2	2255.6	2366.4	2331.3
15°	1665.2	1671.9	1687.9	1732.3	1794.5	1877.7	1997.3	2165.5	2203.2	2359.7	2342.4
17.5°	1637.4	1644.8	1649.7	1681.7	1738.5	1819.8	1942.4	2127.4	2169.9	2363.4	2364.0
20°	1666.4	1671.9	1660.8	1668.8	1703.9	1776.7	1896.2	2094.7	2145.2	2367.8	2391.7
22.5°	1774.2	1776.7	1746.6	1711.5	1705.3	1745.2	1859.9	2068.8	2123.1	2379.4	2424.3
25°	1959.2	1954.8	1905.6	1829.7	1758.3	1739.7	1838.3	2052.7	2111.9	2391.7	2458.3
27.5°	2182.3	2188.5	2120.5	2010.2	1874.0	1776.7	1835.2	2046.0	2107.1	2400.5	2487.9
30°	2453.5	2462.1	2384.3	2245.8	2050.3	1867.9	1863.7	2044.8	2103.9	2394.8	2490.3
32.5°	2730.0	2740.5	2679.6	2536.5	2285.7	2020.7	1927.8	2058.3	2110.1	2375.7	2476.2
35°	3019.7	3034.6	2993.8	2871.3	2604.9	2241.5	2040.5	2099.6	2139.0	2374.0	2462.1
37.5°	3419.7	3433.2	3356.8	3226.8	2991.4	2537.3	2221.7	2177.3	2207.4	2403.4	2465.7
40°	4016.9	4015.1	3817.7	3618.7	3416.0	2913.2	2476.2	2317.7	2333.2	2492.7	2511.3
42.5°	4667.7	4664.5	4373.0	4070.5	3887.4	3375.9	2810.7	2560.6	2550.1	2657.4	2629.6
45°	5169.2	5168.7	4930.7	4590.0	4455.1	3907.2	3243.4	2898.3	2882.3	2924.8	2847.7
47.5°	5383.2	5386.9	5267.2	5027.5	5084.2	4625.7	3788.8	3387.7	3363.7	3346.4	3229.2
50°	5216.7	5224.2	5234.0	5187.2	5545.7	5591.4	4520.4	4077.2	4065.5	3988.6	3805.5
52.5°	4673.2	4710.7	4826.7	4975.2	5706.0	6518.3	5667.1	4933.9	4871.0	4789.0	4587.6
55°	3757.4	3798.8	4018.7	4379.1	5467.5	7127.2	7274.5	6038.1	5933.5	5688.7	5397.9
57.5°	2486.7	2550.7	2869.9	3328.5	4774.9	7225.2	8877.9	7570.8	7206.1	6536.2	6208.2
60°	1369.9	1431.5	1777.9	2193.3	3448.7	6740.7	9956.5	9566.4	8921.7	7483.4	7192.5
62.5°	843.7	876.9	1132.8	1519.2	2068.2	5320.2	10179.6	12073.9	11327.6	8703.0	8381.2
65°	671.8	685.9	811.0	1241.7	1482.7	3164.5	9459.2	13985.6	13736.6	10179.6	9445.6
67°	652.0	657.6	716.7	1066.2	1397.8	1940.0	7924.6	14296.9	14549.5	11073.1	9478.8
67.5°	656.3	662.5	718.6	1017.5	1395.2	1782.9	7395.8	14174.1	14493.4	11144.1	9331.6
70°	632.9	652.0	822.7	1016.8	1326.8	1481.6	4429.2	12281.0	12613.2	10354.6	7917.8
72.5°	224.3	225.6	355.5	822.7	1442.7	1497.6	2224.2	9003.2	9248.9	7921.0	5708.5
75°	133.0	113.4	118.3	234.2	1378.5	1454.4	1283.0	5752.8	5844.7	4538.9	2890.9
77.5°	91.8	80.0	82.6	103.6	525.1	1434.1	1019.2	3000.0	2902.1	1591.8	615.7
80°	52.5	46.3	49.2	90.5	191.0	1337.9	961.4	1216.6	1037.3	269.9	170.0
82.5°	27.8	23.4	28.3	74.6	133.0	833.7	963.3	587.9	466.0	91.2	115.8
85°	9.8	8.1	13.6	51.2	88.8	255.7	892.9	494.2	388.2	44.3	88.2
87.5°	1.8	1.8	5.6	20.9	35.8	78.2	528.2	293.3	196.5	26.5	60.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2322.7	2296.2	2260.4	2216.7	2164.9	2119.3	2085.4	2050.3	2042.9	2030.6	2028.7
5°	2307.2	2261.8	2173.0	2071.3	1962.8	1864.8	1785.3	1714.4	1683.1	1655.9	1652.8
7.5°	2284.5	2216.1	2065.2	1901.3	1731.8	1577.7	1447.0	1354.6	1269.6	1228.8	1222.7
10°	2258.0	2160.1	1943.8	1716.3	1482.2	1264.5	1070.5	907.7	809.2	750.7	743.2
12.5°	2233.4	2105.2	1819.8	1524.7	1213.4	922.6	673.0	517.7	414.1	372.3	367.2
15°	2221.7	2060.8	1703.9	1328.7	932.4	587.3	367.9	284.8	250.8	240.9	240.3
17.5°	2220.4	2023.3	1590.5	1125.9	653.2	341.4	239.8	218.7	212.0	209.6	209.6
20°	2219.8	1987.5	1477.3	915.8	414.7	227.5	199.7	194.8	189.8	186.8	186.8
22.5°	2226.5	1955.4	1358.9	701.2	261.2	184.2	175.7	170.7	164.5	160.3	159.5
25°	2233.4	1930.7	1238.0	499.2	189.3	160.3	151.6	144.8	136.3	130.7	130.1
27.5°	2234.7	1899.9	1108.7	334.0	158.5	139.9	128.7	118.3	108.4	102.9	102.2
30°	2216.1	1848.3	965.0	225.6	139.9	121.5	106.5	95.5	86.2	81.9	81.9
32.5°	2179.7	1784.2	807.2	170.0	124.4	104.2	88.2	77.7	71.4	69.7	69.0
35°	2147.0	1715.0	645.3	144.2	111.5	88.2	72.1	65.3	61.7	61.1	60.4
37.5°	2127.9	1659.6	493.0	130.7	99.3	73.9	61.1	56.1	54.3	53.0	53.5
40°	2142.7	1613.4	364.3	119.6	86.9	61.7	51.7	49.2	47.4	46.8	46.8
42.5°	2207.4	1605.5	270.5	109.8	75.2	51.2	44.9	43.2	42.0	41.3	42.0
45°	2377.5	1654.7	210.2	100.4	63.5	43.2	38.2	37.5	37.0	37.0	37.0
47.5°	2633.3	1756.4	175.0	90.0	53.0	37.0	33.2	32.7	32.1	32.7	32.7
50°	3066.5	1942.4	156.6	79.5	43.7	31.4	28.3	28.3	28.3	28.3	28.9
52.5°	3725.4	2308.6	144.2	69.0	35.8	26.5	24.1	24.1	24.7	24.7	25.2
55°	4459.4	2794.2	133.0	58.6	30.3	22.2	19.8	20.3	20.9	21.6	21.6
57.5°	5255.5	3332.2	123.8	48.1	26.0	17.8	16.7	17.2	17.8	19.1	19.1
60°	6216.4	3914.5	110.3	37.5	21.6	14.2	12.9	14.2	16.0	17.2	17.8
62.5°	7271.4	4477.8	93.1	29.6	17.8	11.0	10.5	12.9	15.5	16.7	17.2
65°	7992.4	4654.7	71.4	24.1	13.6	8.1	8.7	11.7	14.8	16.7	16.7
67°	7700.4	4220.1	58.6	20.3	11.0	6.2	8.1	11.7	14.8	16.0	16.7
67.5°	7497.6	4050.1	56.1	19.8	10.5	6.2	8.1	11.7	14.8	16.7	16.7
70°	6100.5	3042.5	46.8	14.8	8.7	5.6	6.7	11.0	14.2	16.0	16.0
72.5°	4238.7	1875.9	42.0	10.5	7.4	4.9	6.2	10.5	13.6	15.5	16.0
75°	2015.2	679.1	35.8	8.1	6.7	4.3	5.6	10.5	13.6	15.5	15.5
77.5°	411.1	157.7	28.9	6.7	5.6	4.3	4.9	9.8	12.9	14.8	14.8
80°	134.9	61.1	21.6	6.2	5.6	4.3	4.9	9.3	12.9	14.2	14.8
82.5°	97.3	30.8	14.2	6.2	5.6	4.3	4.3	9.3	12.3	14.2	14.2
85°	74.6	21.6	9.3	6.2	5.6	4.3	4.3	8.7	11.7	13.6	13.6
87.5°	49.2	8.7	7.4	6.2	5.6	4.3	4.3	8.7	11.0	12.9	13.6
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)