

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: P193670

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193670  
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: GLEON-AF-02-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 8490 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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

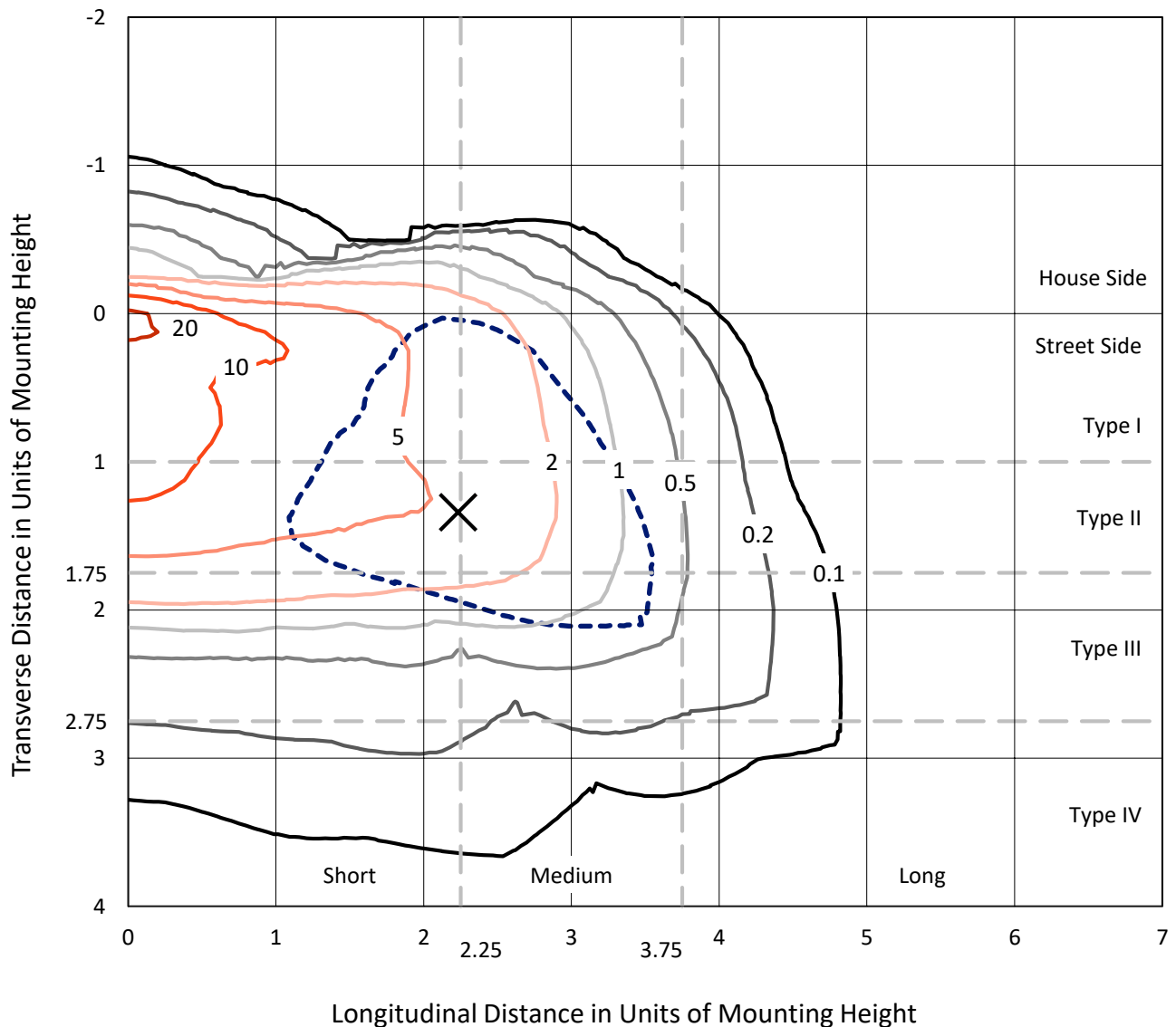


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

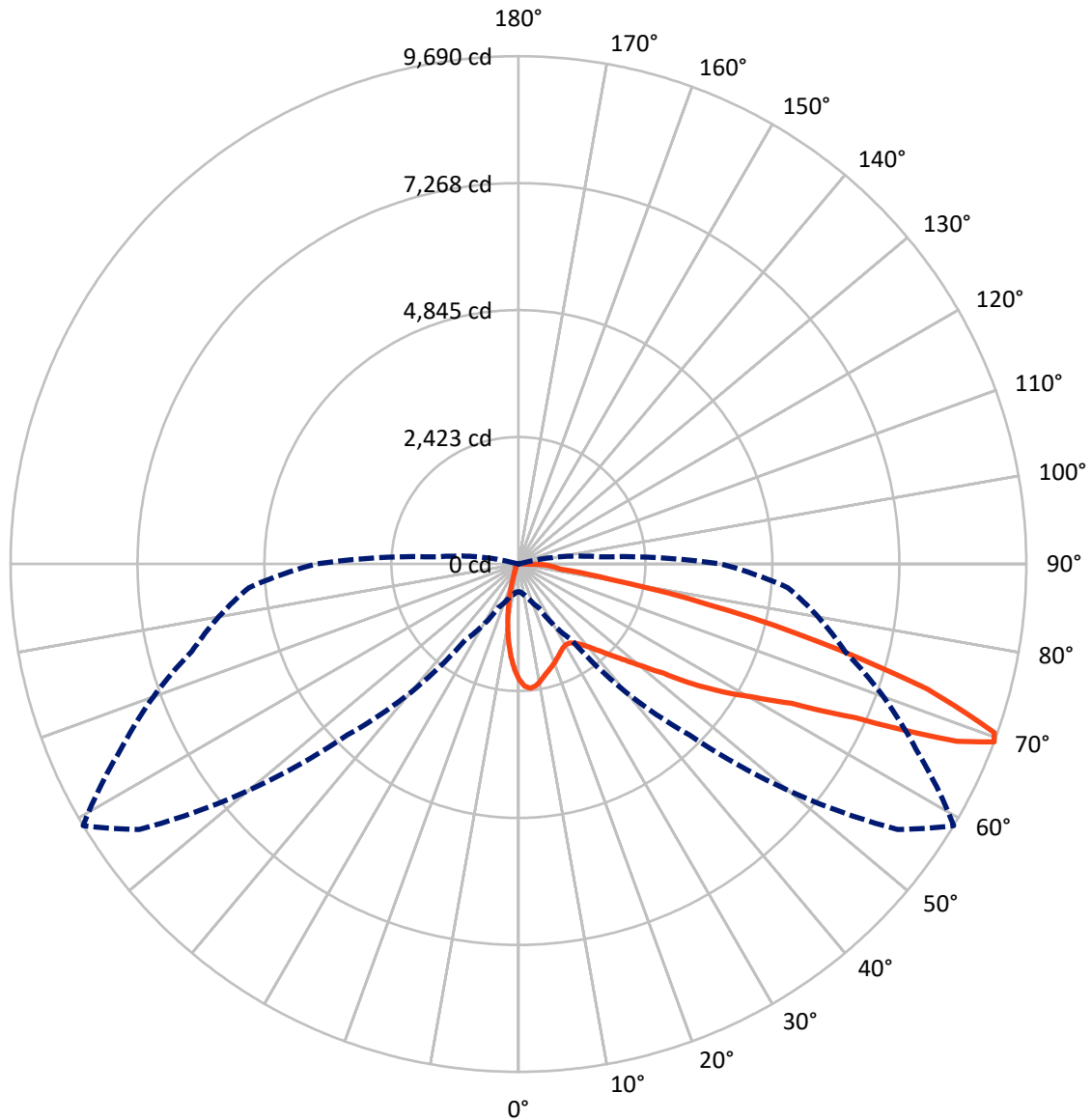


Based on 10 foot mounting height. Maximum calculated value = 22.2 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	691.4	0.0	691.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	7798.6	0.0	7798.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	8490.0	0.0	8490.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	2.1
10°-20°	370.6	4.4
20°-30°	498.7	5.9
30°-40°	724.1	8.5
40°-50°	1205.7	14.2
50°-60°	1880.9	22.2
60°-70°	2327.5	27.4
70°-80°	1179.5	13.9
80°-90°	123.4	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°	8490.0	100.0
0°-180°	8490.0	100.0



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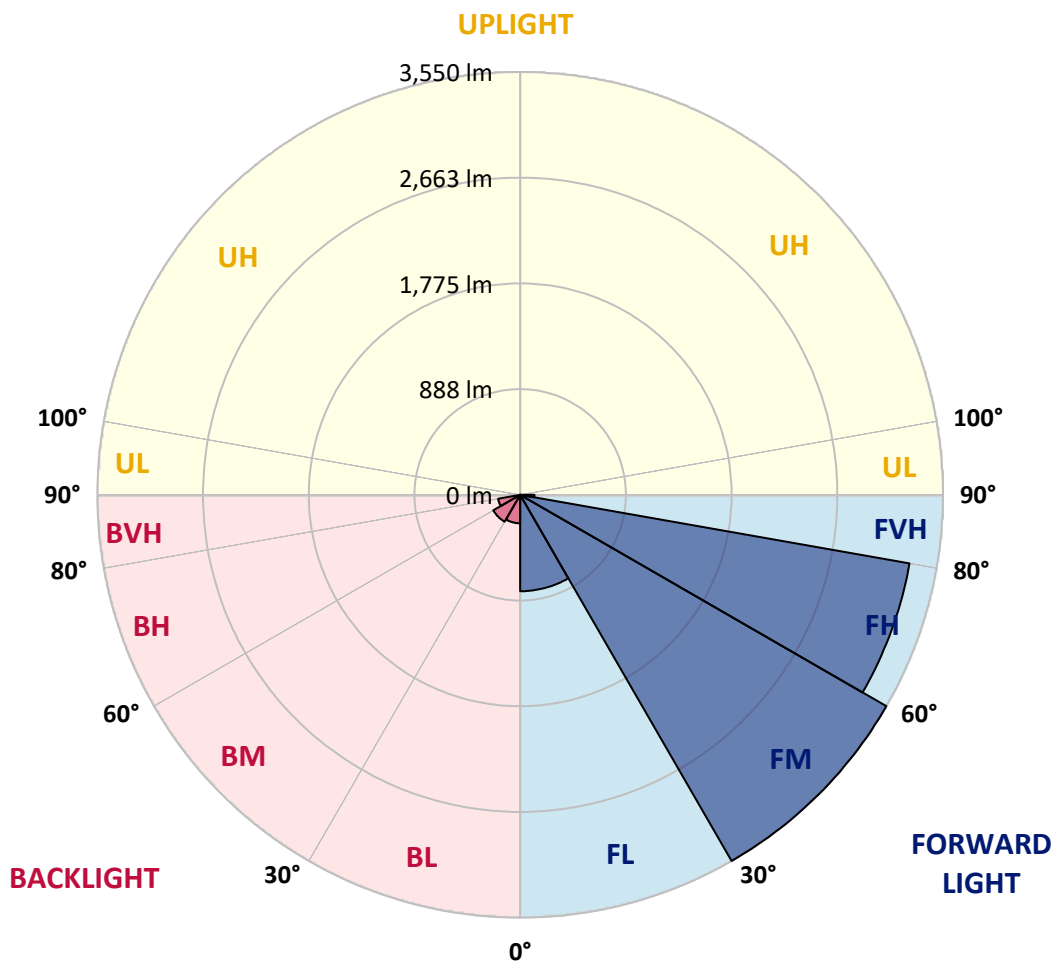
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.4	9.5			
FM	(30°-60°)	3550.3	41.8			
FH	(60°-80°)	3319.3	39.1			G2/5000
FVH	(80°-90°)	119.6	1.4			G2/225
BL	(0°-30°)	239.3	2.8	B1/500		
BM	(30°-60°)	260.5	3.1	B1/1000		
BH	(60°-80°)	187.8	2.2	B1/500		G1/500
BVH	(80°-90°)	3.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8
2.5°	2422.0	2421.1	2410.5	2405.7	2397.1	2378.8	2350.5	2335.6	2311.6	2269.8	2213.7
5°	2399.9	2411.5	2417.7	2418.2	2424.4	2417.7	2392.3	2379.8	2346.7	2279.4	2178.6
7.5°	2250.2	2254.5	2272.2	2287.6	2317.4	2345.7	2354.8	2349.5	2329.9	2257.8	2123.9
10°	2089.8	2094.1	2115.3	2135.4	2175.7	2219.4	2265.5	2275.1	2283.3	2227.1	2071.1
12.5°	1951.5	1955.9	1977.5	2003.9	2050.9	2104.7	2176.2	2192.1	2228.1	2197.8	2028.8
15°	1832.5	1834.4	1855.5	1888.2	1944.3	2013.5	2094.6	2120.1	2175.3	2177.2	1991.9
17.5°	1731.2	1736.0	1748.9	1780.2	1841.6	1927.1	2021.6	2058.1	2122.9	2159.9	1955.9
20°	1669.3	1674.1	1673.6	1690.9	1746.1	1837.3	1948.7	1992.4	2071.1	2142.1	1923.7
22.5°	1657.3	1657.3	1644.8	1642.4	1675.0	1751.3	1872.8	1926.1	2024.5	2134.5	1901.1
25°	1700.0	1698.1	1666.9	1641.4	1642.8	1688.5	1799.4	1862.7	1985.2	2139.7	1889.1
27.5°	1790.2	1787.8	1748.5	1700.0	1661.1	1660.6	1743.7	1811.8	1953.9	2164.7	1893.9
30°	1915.1	1914.1	1871.4	1810.4	1739.8	1675.0	1724.5	1786.4	1933.8	2209.8	1905.0
32.5°	2051.4	2050.0	2017.8	1953.5	1864.2	1739.8	1744.6	1796.5	1939.5	2269.8	1931.9
35°	2195.9	2193.5	2179.6	2123.4	2025.0	1859.4	1810.9	1851.2	1976.0	2359.6	1984.7
37.5°	2352.4	2354.8	2364.9	2311.1	2207.9	2026.9	1921.8	1949.1	2049.5	2481.6	2070.6
40°	2583.3	2582.9	2586.2	2515.6	2416.3	2231.9	2076.8	2085.5	2172.4	2643.3	2201.2
42.5°	3002.4	2973.2	2884.3	2740.3	2640.5	2466.2	2272.2	2263.1	2322.6	2843.5	2384.1
45°	3565.6	3503.2	3272.7	2996.7	2869.0	2730.2	2512.8	2483.5	2521.4	3084.1	2609.7
47.5°	4050.0	3985.2	3659.2	3263.6	3111.4	2980.8	2794.6	2741.8	2754.2	3353.4	2895.9
50°	4214.7	4183.0	3898.3	3496.0	3346.2	3296.3	3121.5	3057.2	3039.4	3665.0	3227.6
52.5°	4157.5	4155.1	3965.5	3646.7	3561.3	3622.7	3532.9	3458.5	3393.2	3993.3	3565.1
55°	4065.8	4077.8	3992.9	3778.7	3775.9	3920.9	4095.6	4033.7	3844.5	4350.0	3856.0
57.5°	3812.8	3864.2	3977.5	4028.4	4146.5	4294.8	4564.2	4600.7	4376.9	4623.2	4097.5
60°	3093.7	3206.5	3577.1	4064.4	4624.2	4993.8	5129.7	5160.9	4813.8	4850.3	4423.5
62.5°	2195.9	2311.1	2781.1	3605.4	4631.4	5912.2	5972.3	5849.8	5294.9	5186.8	4985.7
65°	1165.6	1254.5	1638.5	2602.5	4015.4	6125.4	7445.6	7080.8	6143.6	5848.9	5712.0
67.5°	596.3	623.1	775.8	1273.7	2760.5	5440.8	8766.3	9023.2	7606.5	6505.6	5677.0
69°	527.6	543.5	644.8	920.8	1767.7	4608.3	8830.7	9690.0	8372.2	6450.9	5159.0
70°	510.8	524.7	616.9	833.4	1381.7	3864.7	8584.4	9631.5	8568.1	6242.5	4772.0
72.5°	433.5	445.5	549.2	736.4	1122.9	1918.4	6973.2	8161.4	7688.6	5200.3	3454.2
75°	290.0	329.3	527.1	690.4	1044.7	1089.8	4597.3	5897.8	5478.7	3507.5	1799.4
77.5°	69.6	74.9	148.8	549.2	955.4	959.2	2364.4	3666.4	2990.4	1250.1	425.4
80°	37.4	36.0	41.8	109.0	889.6	900.2	1064.3	1779.7	1067.7	207.4	140.2
82.5°	26.4	25.0	26.9	45.6	279.9	820.0	770.1	805.6	442.6	79.7	62.9
85°	9.6	9.1	14.9	41.3	87.9	471.4	791.2	664.4	358.6	36.5	46.1
87.5°	3.4	2.9	5.8	22.6	26.9	200.7	488.2	502.2	141.1	22.1	21.6
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°	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8
2.5°	2190.1	2160.4	2105.7	2049.5	1997.6	1935.2	1904.0	1873.3	1860.3	1855.5	1833.0
5°	2126.8	2076.4	1960.2	1843.5	1736.0	1621.7	1546.4	1485.9	1450.3	1433.1	1405.7
7.5°	2045.6	1963.1	1786.9	1606.8	1439.3	1274.1	1151.7	1057.6	992.8	961.6	933.3
10°	1966.9	1857.0	1606.4	1361.0	1133.5	914.6	745.6	623.1	544.9	508.9	485.8
12.5°	1896.3	1753.7	1432.1	1121.5	835.8	579.5	407.6	310.1	261.6	244.8	236.7
15°	1833.4	1658.7	1267.4	893.9	566.0	331.3	222.8	189.6	182.0	182.0	181.0
17.5°	1773.9	1565.6	1108.5	680.3	355.3	202.6	169.5	165.1	165.1	167.1	167.1
20°	1716.8	1476.7	954.9	488.2	223.7	160.8	153.1	152.2	153.1	155.5	155.5
22.5°	1667.8	1396.1	811.3	335.1	166.1	145.0	141.1	139.7	140.2	141.6	142.6
25°	1631.3	1327.9	676.0	227.1	143.1	132.0	127.7	125.3	123.4	123.4	124.3
27.5°	1608.3	1270.3	544.9	165.1	128.7	120.0	113.3	109.5	105.1	102.7	103.7
30°	1591.5	1215.6	422.0	134.9	115.2	106.6	97.9	91.7	85.5	82.6	83.5
32.5°	1585.2	1171.4	315.4	119.1	103.2	93.6	83.1	74.9	68.2	65.8	66.3
35°	1602.0	1136.4	230.9	107.5	93.6	81.6	69.6	60.5	55.2	53.8	54.2
37.5°	1646.2	1117.6	172.8	97.9	85.0	71.5	58.1	49.4	46.1	46.1	46.6
40°	1729.7	1117.2	138.7	91.2	77.3	61.9	48.0	41.8	39.8	40.8	41.3
42.5°	1851.7	1142.6	121.0	85.0	70.6	52.8	39.8	35.5	35.0	36.0	36.5
45°	2018.3	1189.2	111.4	79.7	63.4	44.2	33.6	30.7	30.7	32.2	32.6
47.5°	2222.3	1257.3	103.2	74.4	56.2	37.0	28.8	26.9	27.4	28.8	29.3
50°	2468.1	1343.3	95.1	68.7	50.9	30.7	25.0	23.5	24.0	25.9	26.4
52.5°	2748.0	1459.0	88.3	63.4	44.2	25.4	21.1	20.2	21.1	23.0	23.5
55°	2988.0	1562.7	80.2	59.1	35.5	21.1	17.3	17.3	18.2	20.6	21.1
57.5°	3219.0	1671.2	73.0	50.9	27.8	16.8	14.4	14.9	16.3	18.7	19.2
60°	3557.9	1855.0	64.3	42.7	21.1	13.4	12.0	12.5	14.4	16.8	17.3
62.5°	4133.5	2134.9	55.7	35.5	16.3	10.6	9.6	10.6	13.0	15.8	16.3
65°	4653.0	2248.7	45.6	29.8	12.5	8.2	8.2	9.6	12.5	15.4	15.8
67.5°	4363.5	1893.0	35.5	23.5	9.6	6.2	6.7	9.1	12.0	15.4	15.8
69°	3858.9	1547.8	30.2	18.7	8.2	5.8	6.2	9.1	12.0	14.9	15.4
70°	3465.7	1306.8	26.9	15.8	7.2	5.8	6.2	8.6	12.0	14.9	15.4
72.5°	2321.2	705.7	21.6	11.5	6.7	5.3	5.3	8.6	11.5	14.4	14.9
75°	997.6	194.9	17.3	8.2	5.8	4.8	4.8	8.2	11.0	13.9	14.9
77.5°	182.4	49.4	13.9	7.2	5.8	4.8	4.3	7.7	10.6	13.4	13.9
80°	72.5	24.5	11.0	6.2	5.3	4.3	3.8	7.2	10.1	13.0	13.4
82.5°	43.7	13.9	9.1	5.8	5.3	3.8	3.4	6.2	9.6	12.5	13.0
85°	35.5	9.6	7.2	5.8	4.8	3.8	2.9	5.8	8.6	12.0	12.5
87.5°	17.3	6.7	6.7	5.3	4.8	3.8	2.9	5.3	8.2	11.5	12.0
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)