

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: P319796

Luminaire Tested: **GLEON-SA2B-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8596 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

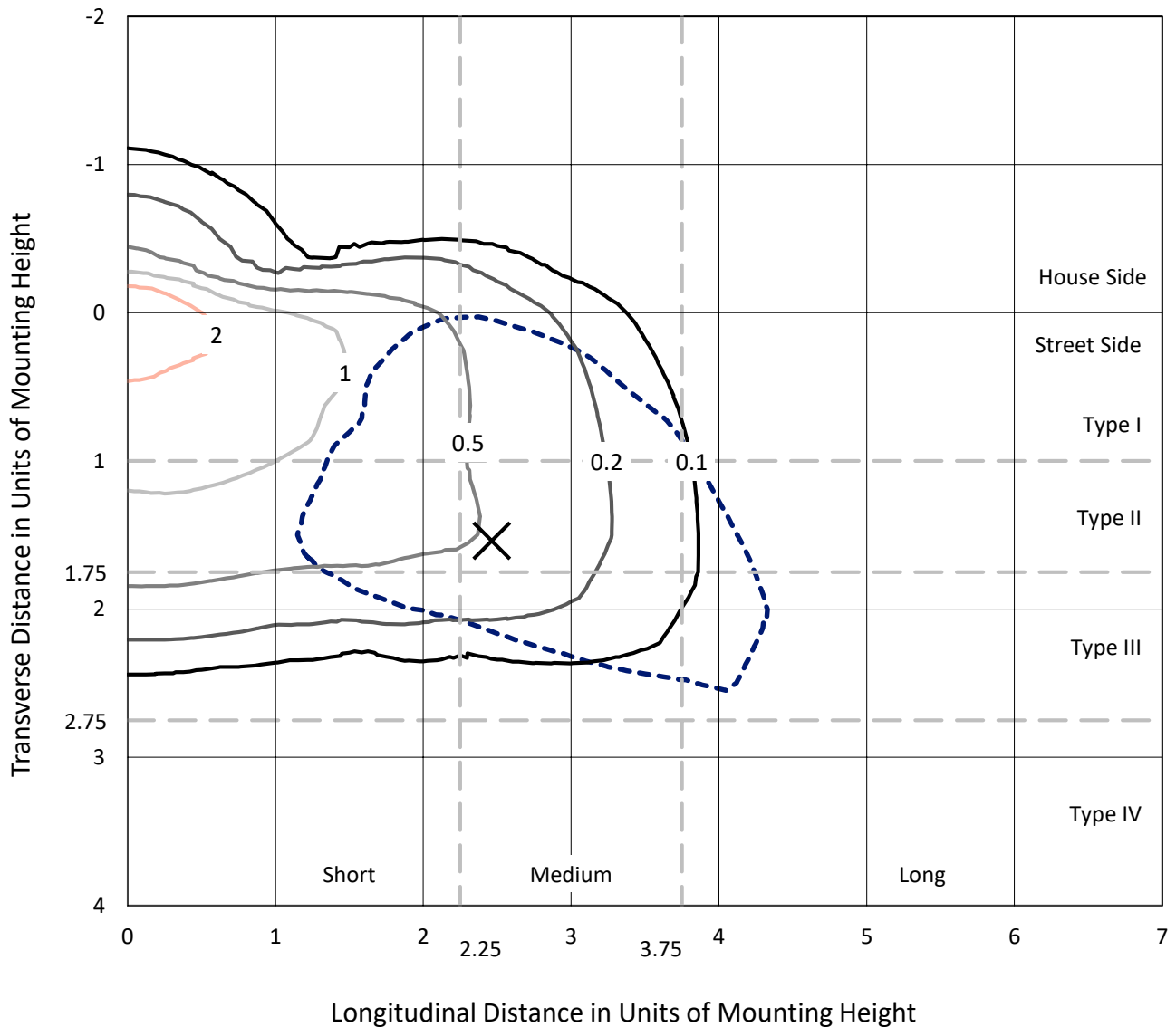
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

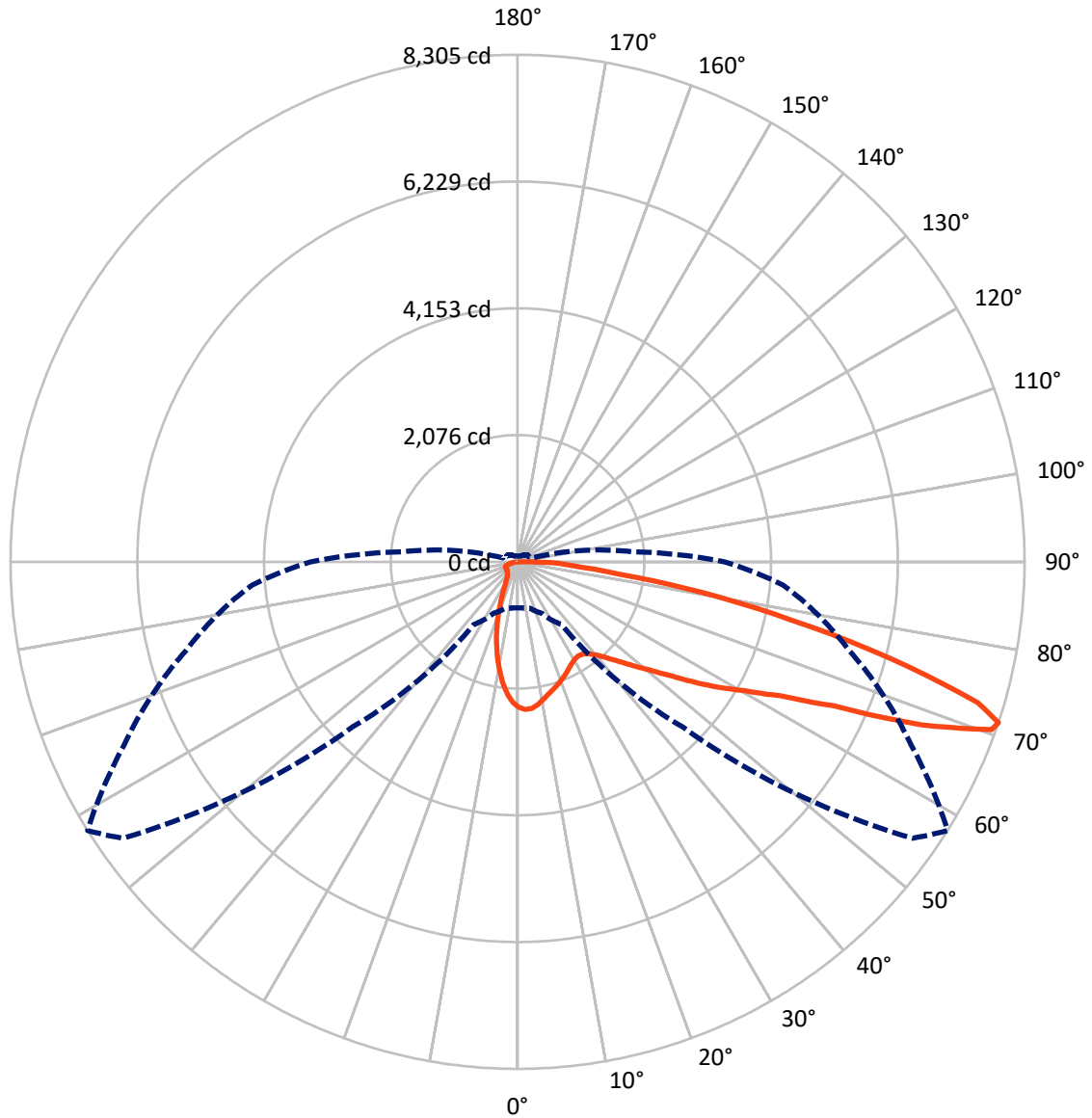
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1285.2	0.0	1285.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	7310.8	0.0	7310.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	8596.0	0.0	8596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	2.4
10°-20°	456.9	5.3
20°-30°	580.6	6.8
30°-40°	739.6	8.6
40°-50°	1048.8	12.2
50°-60°	1623.1	18.9
60°-70°	2209.6	25.7
70°-80°	1474.1	17.1
80°-90°	257.7	3.0
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°	8596.0	100.0
0°-180°	8596.0	100.0

**Coefficient of Utilization**

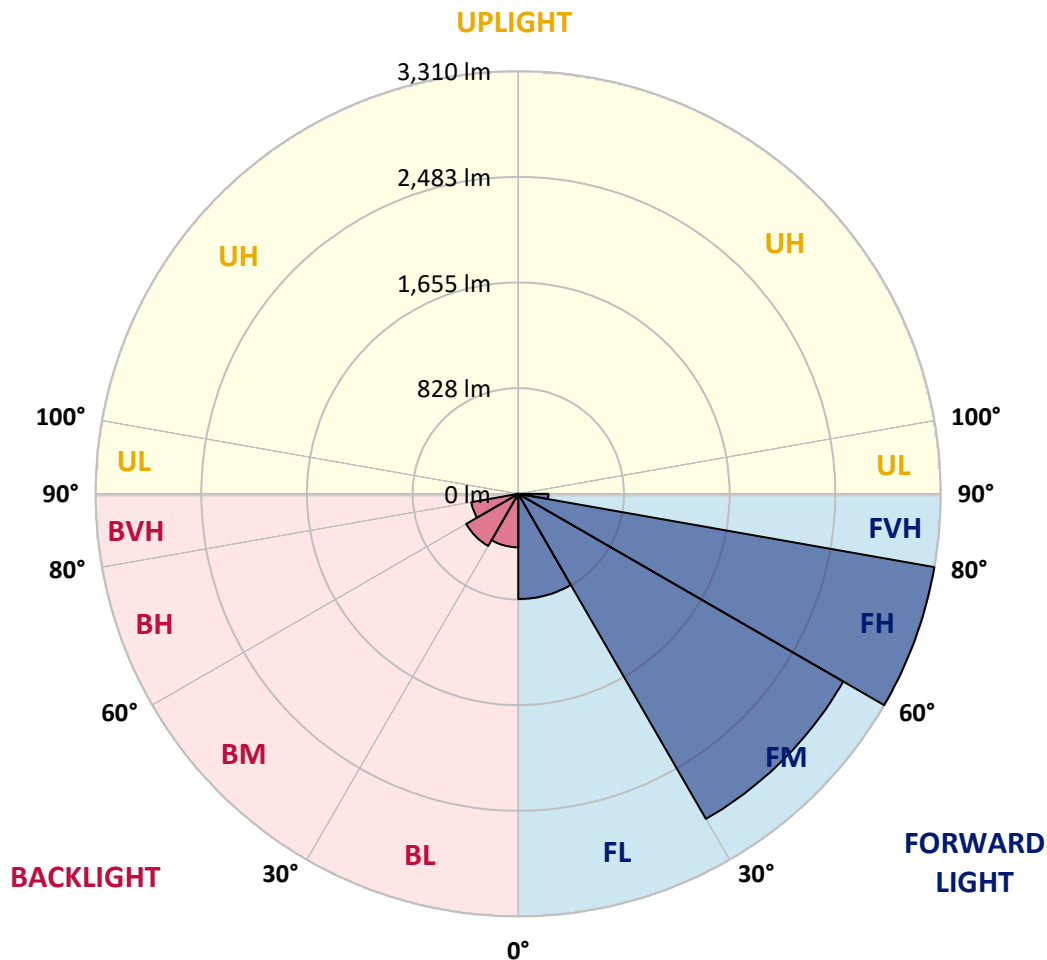


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.1	9.6			
FM (30°-60°)	2940.3	34.2			
FH (60°-80°)	3310.2	38.5			G2/5000
FVH (80°-90°)	236.3	2.7			G3/500
BL (0°-30°)	418.9	4.9	B1/500		
BM (30°-60°)	471.3	5.5	B1/1000		
BH (60°-80°)	373.5	4.3	B1/500		G1/500
BVH (80°-90°)	21.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7
2.5°	2444.8	2441.6	2442.8	2440.4	2434.7	2429.0	2420.6	2422.1	2410.4	2393.0	2371.5
5°	2398.7	2397.5	2406.5	2411.6	2415.8	2412.5	2410.1	2413.1	2396.0	2372.1	2334.7
7.5°	2302.0	2288.8	2300.2	2317.3	2333.5	2345.7	2361.9	2364.0	2353.2	2328.1	2279.0
10°	2164.6	2152.0	2168.8	2195.4	2227.8	2257.1	2289.7	2295.7	2297.8	2275.1	2215.5
12.5°	2022.1	2012.5	2029.2	2066.7	2120.3	2165.5	2217.6	2226.6	2245.1	2229.9	2156.8
15°	1894.5	1890.9	1911.3	1948.1	2009.8	2078.9	2154.1	2170.6	2202.0	2196.9	2111.0
17.5°	1784.3	1783.4	1799.0	1837.6	1905.9	1993.3	2090.9	2118.8	2165.5	2171.5	2073.3
20°	1702.3	1700.5	1711.2	1739.7	1810.1	1909.2	2022.7	2061.0	2128.3	2149.3	2034.3
22.5°	1658.2	1657.9	1658.2	1671.7	1729.2	1821.4	1956.2	2002.9	2092.1	2131.6	1991.2
25°	1650.8	1649.9	1643.3	1641.8	1674.4	1748.1	1890.3	1941.8	2057.7	2119.4	1950.2
27.5°	1670.2	1671.4	1662.7	1648.7	1655.2	1699.9	1833.1	1888.2	2030.1	2117.0	1921.7
30°	1710.6	1710.0	1702.6	1687.9	1675.0	1681.9	1792.4	1847.5	2011.6	2127.5	1902.3
32.5°	1755.3	1758.6	1757.1	1749.0	1729.8	1702.3	1780.1	1834.0	2006.2	2152.6	1893.9
35°	1808.9	1812.5	1823.2	1829.5	1807.1	1762.7	1806.5	1853.2	2021.8	2199.9	1907.4
37.5°	1859.8	1869.0	1899.3	1925.9	1906.8	1857.4	1876.5	1909.8	2070.0	2274.5	1943.6
40°	1918.4	1926.5	1975.9	2032.5	2029.5	1978.3	1989.4	2011.6	2155.0	2381.4	2009.2
42.5°	1976.2	1992.4	2064.0	2144.2	2167.3	2122.1	2139.7	2151.4	2274.8	2523.0	2123.6
45°	2053.2	2070.6	2170.0	2266.7	2320.6	2295.1	2323.3	2327.8	2425.4	2715.8	2289.7
47.5°	2169.7	2189.4	2305.3	2406.8	2489.2	2491.9	2538.3	2536.5	2613.4	2936.5	2499.0
50°	2351.1	2379.6	2474.5	2569.4	2669.4	2725.1	2787.1	2778.4	2838.9	3171.6	2740.1
52.5°	2588.9	2602.0	2672.4	2742.5	2866.7	2991.6	3080.5	3072.8	3094.6	3413.2	3013.8
55°	2835.3	2845.2	2874.2	2912.6	3079.6	3283.3	3471.3	3459.0	3403.6	3664.1	3284.1
57.5°	3056.9	3076.9	3097.0	3112.9	3294.0	3588.1	3871.0	3871.9	3739.0	3934.8	3563.5
60°	3091.3	3109.0	3241.6	3366.8	3660.8	3994.7	4298.9	4289.9	4086.0	4228.6	3874.9
62.5°	2732.6	2772.4	2994.0	3327.0	4014.2	4738.5	4844.8	4833.7	4501.0	4590.6	4237.5
65°	1958.3	2003.5	2270.9	2771.2	3842.9	5558.0	5829.9	5680.8	5067.0	5035.8	4662.1
67.5°	1129.7	1140.5	1256.4	1658.2	2926.0	5600.8	7332.7	7124.0	5945.8	5541.0	4869.9
70°	835.4	835.1	862.7	1020.5	1583.4	4571.1	8047.5	8234.6	6871.0	5707.1	4576.2
71°	755.5	756.4	787.2	928.8	1254.0	3826.1	7895.7	8305.3	7114.8	5625.1	4363.6
72.5°	646.2	649.2	692.0	833.0	1054.9	2638.6	7241.7	7881.3	7230.3	5422.7	4030.9
75°	490.2	497.1	556.3	702.2	964.2	1338.2	5314.9	6293.4	6423.1	4784.9	2995.2
77.5°	349.7	357.5	424.6	590.5	916.6	1008.5	3559.3	4590.6	4726.8	3066.5	1351.0
80°	221.0	230.3	280.9	469.8	861.2	957.6	2236.7	3085.6	2577.5	981.2	343.7
82.5°	129.7	136.8	174.3	306.9	703.4	922.2	1316.0	1710.3	1003.1	296.4	156.3
85°	75.2	78.5	108.7	195.5	510.8	870.4	966.9	956.1	435.4	144.9	74.0
87.5°	35.0	38.9	64.4	102.1	283.6	630.9	764.1	660.2	270.7	68.0	34.7
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°	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7	2381.7
2.5°	2361.0	2355.9	2334.7	2315.8	2296.0	2270.3	2241.8	2238.2	2220.9	2224.2	2218.2
5°	2314.3	2301.4	2250.2	2203.8	2149.0	2099.9	2046.6	2022.1	1986.7	1984.3	1975.3
7.5°	2247.5	2223.6	2144.2	2056.2	1968.2	1884.3	1801.4	1746.9	1691.2	1667.5	1665.4
10°	2172.4	2131.6	2014.9	1884.6	1757.7	1635.2	1516.6	1428.9	1349.8	1312.4	1310.9
12.5°	2101.1	2040.9	1880.7	1703.5	1529.8	1371.1	1208.5	1093.2	994.1	960.9	946.8
15°	2040.6	1955.9	1750.2	1523.5	1312.7	1092.3	907.3	786.0	694.4	662.6	656.7
17.5°	1981.9	1872.9	1616.3	1341.7	1086.9	844.7	659.3	569.2	520.4	507.5	507.2
20°	1923.5	1787.6	1476.5	1155.8	868.6	631.8	506.9	466.5	450.0	448.5	446.2
22.5°	1857.4	1697.2	1329.5	969.3	677.9	496.8	430.9	414.7	412.6	418.0	418.0
25°	1795.4	1607.3	1180.4	786.6	527.3	414.4	384.8	381.5	387.2	396.7	397.6
27.5°	1737.6	1520.8	1034.8	624.3	422.5	365.0	352.7	356.6	366.8	377.9	378.2
30°	1690.0	1439.1	893.5	492.0	356.9	328.2	326.1	333.9	344.9	353.6	355.7
32.5°	1653.2	1369.3	757.0	395.5	314.1	300.6	302.4	309.0	315.9	320.7	324.0
35°	1636.1	1309.4	630.9	333.6	286.9	279.4	281.8	285.4	288.4	291.9	294.6
37.5°	1639.1	1263.0	518.3	294.9	268.6	264.7	264.7	264.7	264.7	266.5	266.8
40°	1666.9	1236.3	426.7	270.4	256.3	252.1	248.8	245.8	243.4	244.6	244.0
42.5°	1738.2	1234.0	359.6	254.8	246.4	239.5	233.0	228.8	225.8	227.0	227.6
45°	1859.2	1263.9	314.4	243.7	237.1	226.7	218.3	213.8	211.7	215.6	216.2
47.5°	2015.8	1329.2	286.9	235.7	228.5	214.7	205.7	201.5	202.1	207.8	209.3
50°	2217.6	1435.2	273.7	230.6	222.5	204.5	195.2	191.6	193.4	201.5	203.3
52.5°	2439.2	1587.9	275.2	229.1	218.6	197.0	187.1	183.0	185.9	193.4	194.9
55°	2694.9	1771.4	300.0	231.2	212.9	192.2	180.6	173.4	175.8	182.7	183.9
57.5°	2979.0	1981.6	350.0	230.6	205.7	187.7	173.7	162.9	164.7	168.9	170.1
60°	3274.9	2235.5	427.6	232.4	202.4	182.4	164.4	150.9	150.3	153.9	154.5
62.5°	3630.0	2529.3	516.2	233.6	204.5	175.5	152.1	138.9	137.1	138.0	138.6
65°	3995.9	2741.9	483.0	228.8	211.1	169.8	141.3	127.3	124.0	123.4	123.7
67.5°	4007.3	2514.0	338.7	219.2	213.8	166.8	133.2	117.4	112.0	109.9	109.6
70°	3593.8	2042.4	263.8	209.0	203.0	162.0	125.8	109.3	101.2	97.9	97.6
71°	3391.9	1880.1	250.0	203.9	194.9	157.2	122.5	105.7	97.3	93.7	93.1
72.5°	3075.4	1685.5	233.3	195.8	179.4	144.9	116.2	100.6	91.9	87.7	86.8
75°	2207.1	1102.2	200.3	174.6	148.5	115.6	101.8	90.4	82.9	77.9	77.3
77.5°	850.4	438.7	151.5	145.2	113.8	90.4	83.8	78.2	72.8	67.7	67.4
80°	262.9	196.1	110.5	109.3	82.3	67.4	65.3	63.8	61.7	56.3	55.1
82.5°	140.4	112.6	76.1	70.7	53.9	44.9	47.3	47.9	48.2	42.5	41.9
85°	67.1	59.6	42.8	40.1	31.4	25.2	29.0	31.4	31.7	26.1	24.3
87.5°	32.0	31.1	20.1	15.3	11.7	8.4	10.2	12.6	13.8	9.9	8.7
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)