

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: P319486

Luminaire Tested: **GLEON-SA2C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10423 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

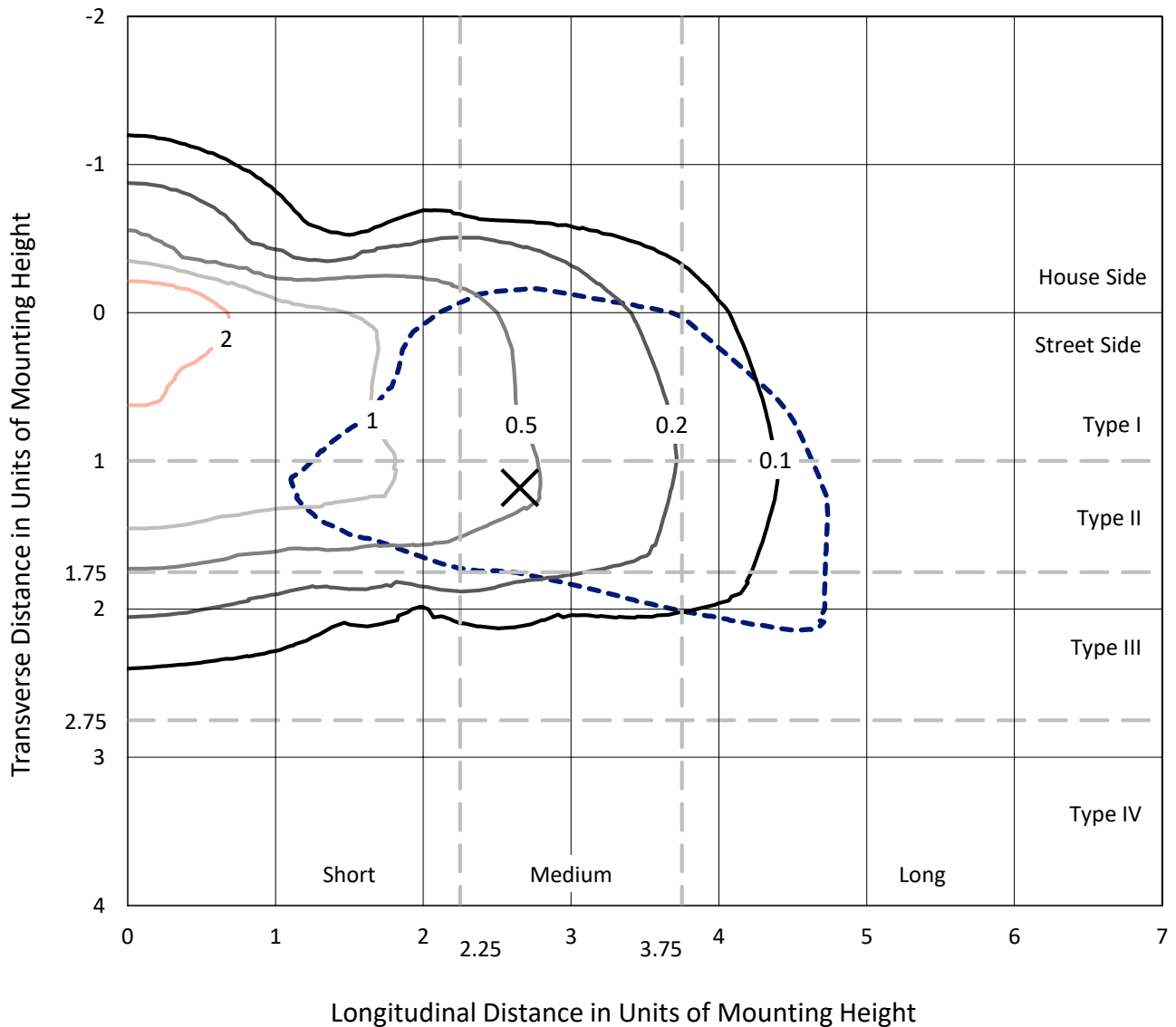
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

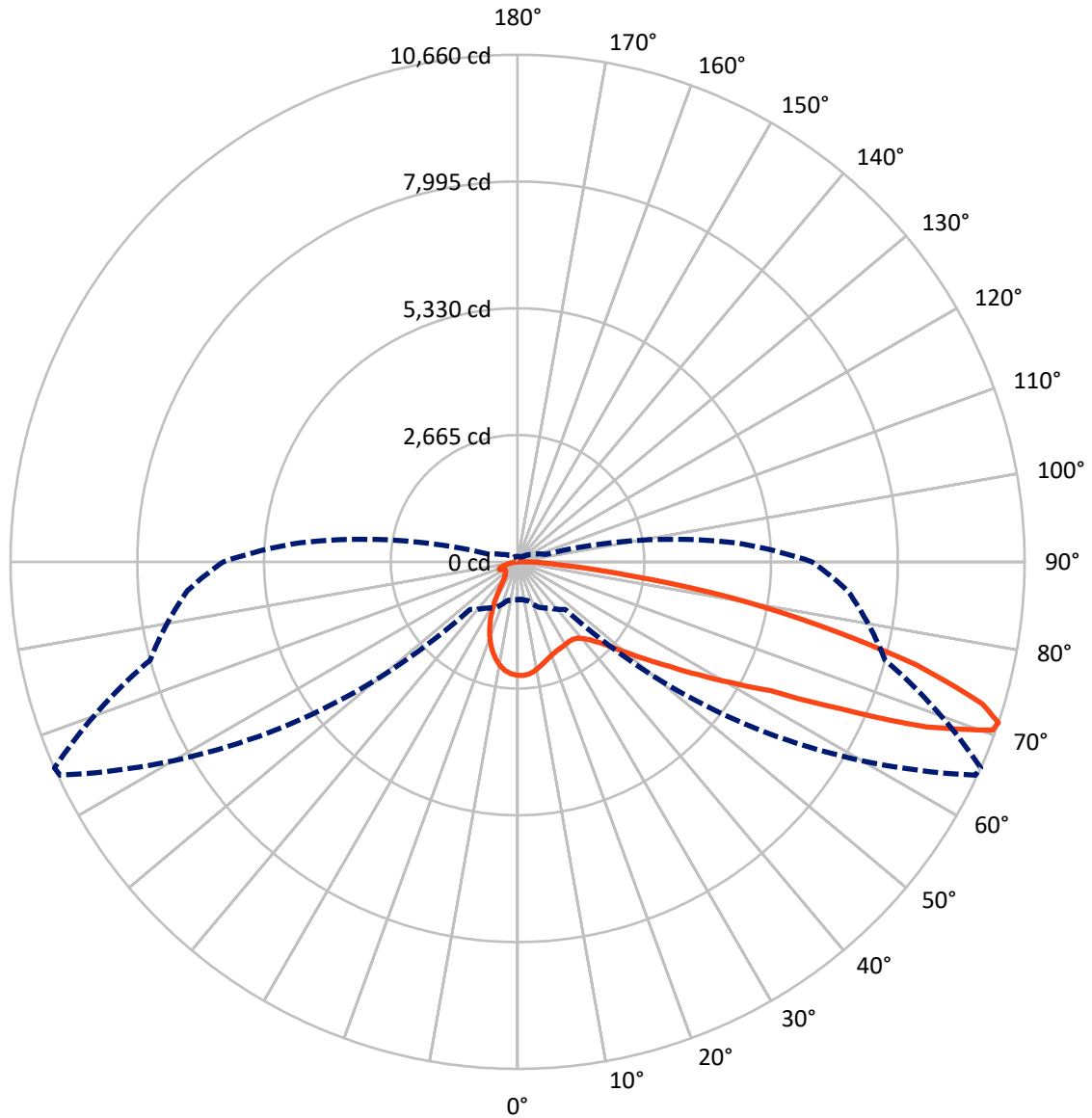
✕ Max cd
 - - - 1/2 Max cd



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 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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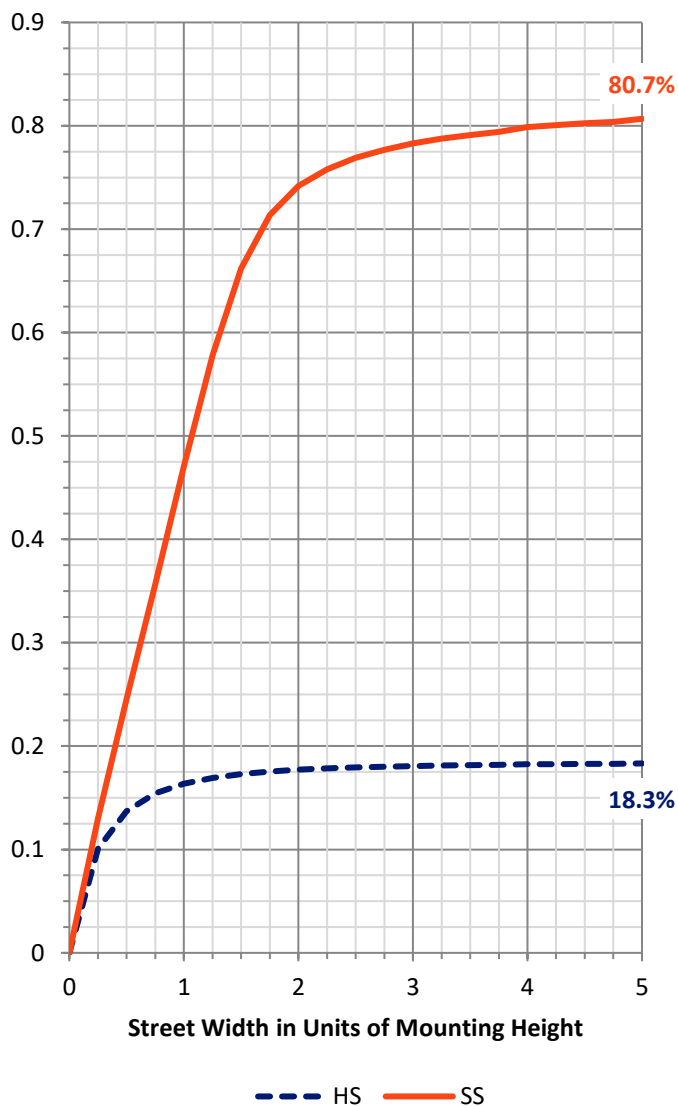
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1931.7	0.0	1931.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	8491.3	0.0	8491.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	10423.0	0.0	10423.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	2.0
10°-20°	504.1	4.8
20°-30°	677.1	6.5
30°-40°	890.7	8.5
40°-50°	1295.8	12.4
50°-60°	2024.2	19.4
60°-70°	2535.6	24.3
70°-80°	1934.1	18.6
80°-90°	351.2	3.4
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°	10423.0	100.0
0°-180°	10423.0	100.0

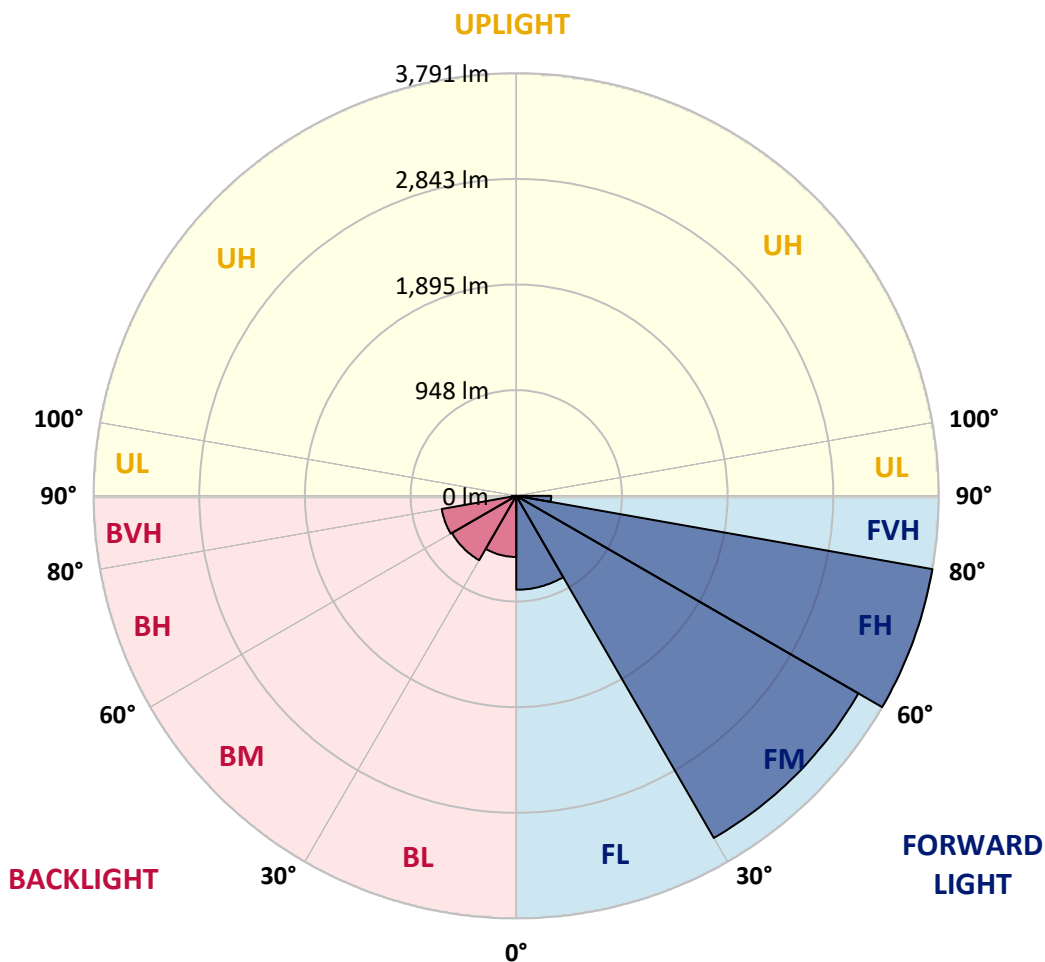


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.8	8.1			
FM (30°-60°)	3544.3	34.0			
FH (60°-80°)	3790.9	36.4			G2/5000
FVH (80°-90°)	313.2	3.0			G3/500
BL (0°-30°)	548.5	5.3	B2/1000		
BM (30°-60°)	666.4	6.4	B1/1000		
BH (60°-80°)	678.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	38.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2343.4	2339.8	2350.6	2361.8	2366.1	2373.3	2384.1	2390.2	2389.9	2390.9	2387.3
5°	2188.0	2183.3	2204.9	2222.5	2256.4	2294.5	2340.9	2374.0	2374.8	2393.5	2398.5
7.5°	2040.8	2037.6	2062.4	2090.8	2130.0	2188.3	2263.6	2334.8	2339.1	2389.9	2407.5
10°	1922.8	1922.0	1946.2	1977.1	2022.8	2087.9	2174.3	2278.7	2285.1	2372.6	2408.9
12.5°	1830.6	1832.1	1852.9	1888.2	1936.4	2004.5	2098.0	2215.7	2226.1	2345.2	2400.7
15°	1762.6	1768.4	1785.3	1820.9	1868.4	1937.5	2033.6	2157.4	2173.2	2314.7	2396.0
17.5°	1723.8	1730.2	1742.1	1771.6	1816.2	1882.8	1973.9	2109.5	2123.9	2291.3	2396.3
20°	1712.2	1717.6	1724.5	1742.5	1780.3	1840.7	1926.7	2066.3	2081.8	2272.6	2399.9
22.5°	1734.9	1738.9	1739.6	1738.2	1761.2	1810.5	1892.5	2034.7	2051.2	2260.3	2402.5
25°	1783.5	1788.9	1784.9	1771.6	1764.1	1794.3	1874.9	2013.8	2030.4	2251.3	2397.4
27.5°	1856.5	1857.3	1854.0	1836.8	1801.1	1796.1	1869.5	2001.6	2017.4	2240.9	2387.0
30°	1955.9	1960.5	1954.8	1931.4	1873.1	1824.9	1876.0	1989.7	2004.1	2227.6	2370.1
32.5°	2072.1	2083.6	2083.3	2058.8	1975.3	1889.3	1902.6	1982.5	1993.7	2213.5	2349.6
35°	2192.7	2208.5	2238.0	2227.6	2124.3	1991.1	1953.7	1994.0	2001.6	2211.7	2335.2
37.5°	2317.9	2333.7	2394.5	2422.6	2301.7	2136.9	2034.3	2034.7	2038.3	2233.7	2334.1
40°	2448.9	2465.8	2557.2	2630.3	2531.7	2321.5	2164.2	2119.6	2115.6	2287.7	2355.3
42.5°	2632.4	2647.5	2757.3	2850.5	2786.8	2557.9	2343.8	2250.6	2242.3	2393.5	2423.3
45°	2864.5	2877.5	2994.1	3093.8	3061.0	2827.8	2569.4	2430.9	2429.5	2569.8	2561.2
47.5°	3140.5	3150.6	3255.3	3351.8	3363.7	3138.4	2853.0	2709.1	2685.7	2811.6	2774.6
50°	3428.1	3439.2	3510.5	3614.1	3702.3	3554.0	3217.9	3049.9	3018.6	3130.8	3076.8
52.5°	3618.4	3633.2	3695.1	3826.4	4083.0	4009.6	3649.4	3463.0	3415.5	3517.7	3476.3
55°	3533.5	3566.6	3661.3	3871.8	4387.5	4705.6	4181.6	3944.8	3891.2	3976.2	3951.7
57.5°	3147.4	3192.7	3321.9	3646.9	4430.3	5318.8	4986.3	4512.4	4474.6	4450.1	4461.3
60°	2441.7	2485.2	2645.4	3068.9	4132.0	5766.5	6197.2	5211.9	5157.2	4925.8	4935.9
62.5°	1728.1	1706.1	1815.9	2125.7	3357.5	5819.0	7575.2	6147.6	5967.6	5428.2	5383.9
65°	1317.8	1312.8	1362.1	1460.7	2033.6	5190.3	8396.0	7720.2	7439.1	6019.1	5914.7
67.5°	1082.8	1073.8	1122.4	1266.0	1309.6	3348.5	8414.0	9544.7	9268.7	6754.7	6528.7
70°	890.3	880.2	925.6	1110.9	1210.2	1698.2	7081.4	10613.2	10598.4	7686.0	6992.2
71°	798.2	791.0	845.3	1051.2	1189.0	1415.4	6114.1	10616.0	10660.3	8001.2	6964.8
72.5°	649.9	652.4	710.0	935.7	1173.2	1249.8	4493.6	10121.2	10214.8	8301.7	6716.2
75°	431.8	434.0	509.6	719.7	1137.5	1222.8	2469.8	8492.8	8664.8	8121.8	6128.5
77.5°	290.1	289.3	340.8	493.7	991.1	1222.8	1448.1	6352.0	6540.9	6462.5	4724.7
80°	199.7	198.3	234.6	340.8	750.3	1237.6	1119.5	4451.5	4508.8	3490.0	1920.2
82.5°	122.4	123.4	153.3	240.8	510.6	1113.8	1056.9	2427.3	2365.0	978.8	479.7
85°	70.2	69.8	97.9	163.0	327.8	940.0	1030.7	1044.7	958.3	294.7	173.5
87.5°	25.2	27.0	52.5	90.3	187.8	654.6	874.5	543.4	489.8	133.2	78.5
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°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2384.8	2387.0	2384.5	2370.1	2357.8	2338.0	2326.9	2311.4	2306.7	2304.6	2310.3
5°	2393.8	2394.5	2373.3	2335.5	2293.1	2243.0	2207.1	2162.8	2141.9	2132.9	2138.7
7.5°	2402.1	2398.9	2352.4	2280.1	2201.7	2114.6	2037.2	1966.3	1924.9	1908.0	1909.4
10°	2403.2	2389.5	2315.0	2203.1	2081.5	1953.7	1835.0	1725.6	1656.5	1611.5	1625.2
12.5°	2392.0	2369.0	2260.0	2103.4	1934.6	1760.5	1600.0	1435.9	1337.3	1291.6	1293.0
15°	2383.4	2341.6	2192.3	1986.1	1759.4	1528.7	1309.6	1116.7	1011.6	964.8	942.8
17.5°	2376.2	2312.1	2113.8	1854.0	1552.5	1259.9	996.5	824.5	766.9	753.2	747.4
20°	2366.1	2280.8	2026.4	1701.1	1316.7	959.0	727.6	642.7	643.1	658.9	661.1
22.5°	2352.1	2245.2	1933.2	1529.4	1063.8	698.5	570.4	545.9	570.7	601.0	606.4
25°	2331.2	2203.1	1829.6	1339.8	811.1	536.9	487.3	486.2	516.4	548.1	552.8
27.5°	2301.7	2148.0	1714.4	1136.1	597.7	456.3	436.5	444.1	466.4	489.4	491.2
30°	2262.1	2084.0	1587.4	921.3	468.5	406.3	404.1	411.0	424.6	440.8	442.3
32.5°	2218.6	2018.8	1451.7	713.3	401.3	379.3	381.5	384.7	391.2	397.7	399.1
35°	2179.0	1952.3	1312.8	542.0	369.2	361.7	360.2	359.5	360.2	358.1	358.4
37.5°	2153.4	1897.2	1168.1	431.5	350.9	346.2	341.9	336.5	330.4	326.8	327.5
40°	2144.1	1856.2	1021.7	372.8	335.8	332.5	324.2	312.7	305.5	303.4	303.4
42.5°	2169.3	1835.0	880.2	343.3	323.2	317.8	304.1	290.8	285.4	285.0	284.7
45°	2246.3	1843.6	745.6	327.1	311.6	301.2	283.2	272.1	268.5	269.2	268.8
47.5°	2384.5	1897.9	630.5	316.3	300.1	286.5	266.3	257.3	253.0	253.0	253.3
50°	2619.5	2025.0	538.7	307.3	290.4	272.8	254.1	242.9	237.2	236.8	236.8
52.5°	2961.7	2252.4	481.5	299.8	279.6	260.5	241.8	227.8	221.0	219.5	218.8
55°	3390.7	2578.4	465.7	294.7	265.2	247.2	227.1	213.0	205.5	202.2	201.9
57.5°	3870.4	2975.0	497.0	288.6	250.5	231.4	210.9	197.6	189.6	185.7	185.3
60°	4355.8	3407.9	624.7	280.0	238.2	214.1	194.3	182.1	174.2	169.9	169.1
62.5°	4842.0	3864.2	885.6	279.3	229.6	197.6	177.4	167.0	159.4	154.7	153.7
65°	5390.4	4363.7	1182.2	298.3	226.7	182.5	160.1	151.9	145.4	141.1	140.7
67.5°	6020.2	4927.6	1153.7	337.6	236.4	168.8	143.9	137.5	132.8	129.2	128.8
70°	6315.6	4839.5	717.2	365.3	250.1	155.5	128.5	123.8	120.2	117.7	116.6
71°	6191.8	4595.1	601.3	362.0	248.7	149.7	122.4	118.8	115.2	113.0	111.9
72.5°	5854.3	4190.6	501.7	336.8	232.5	139.3	114.4	110.8	107.6	105.1	104.4
75°	5253.3	3742.6	401.6	269.2	185.3	117.7	100.4	96.4	93.9	92.5	91.0
77.5°	3861.7	2670.9	310.6	212.7	136.4	96.1	85.6	82.8	80.3	78.1	77.0
80°	1479.4	1034.6	209.1	158.7	100.0	75.9	69.1	67.7	65.1	63.7	63.7
82.5°	398.4	309.1	111.6	96.1	66.9	55.4	52.9	52.2	50.0	47.1	47.5
85°	161.2	136.4	62.6	52.9	41.0	32.7	35.6	36.0	33.5	29.9	30.2
87.5°	70.9	57.9	34.9	23.4	18.0	12.6	16.2	16.2	14.8	12.2	11.2
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)