

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: P323948

Luminaire Tested: **GLEON-SA4A-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11216 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

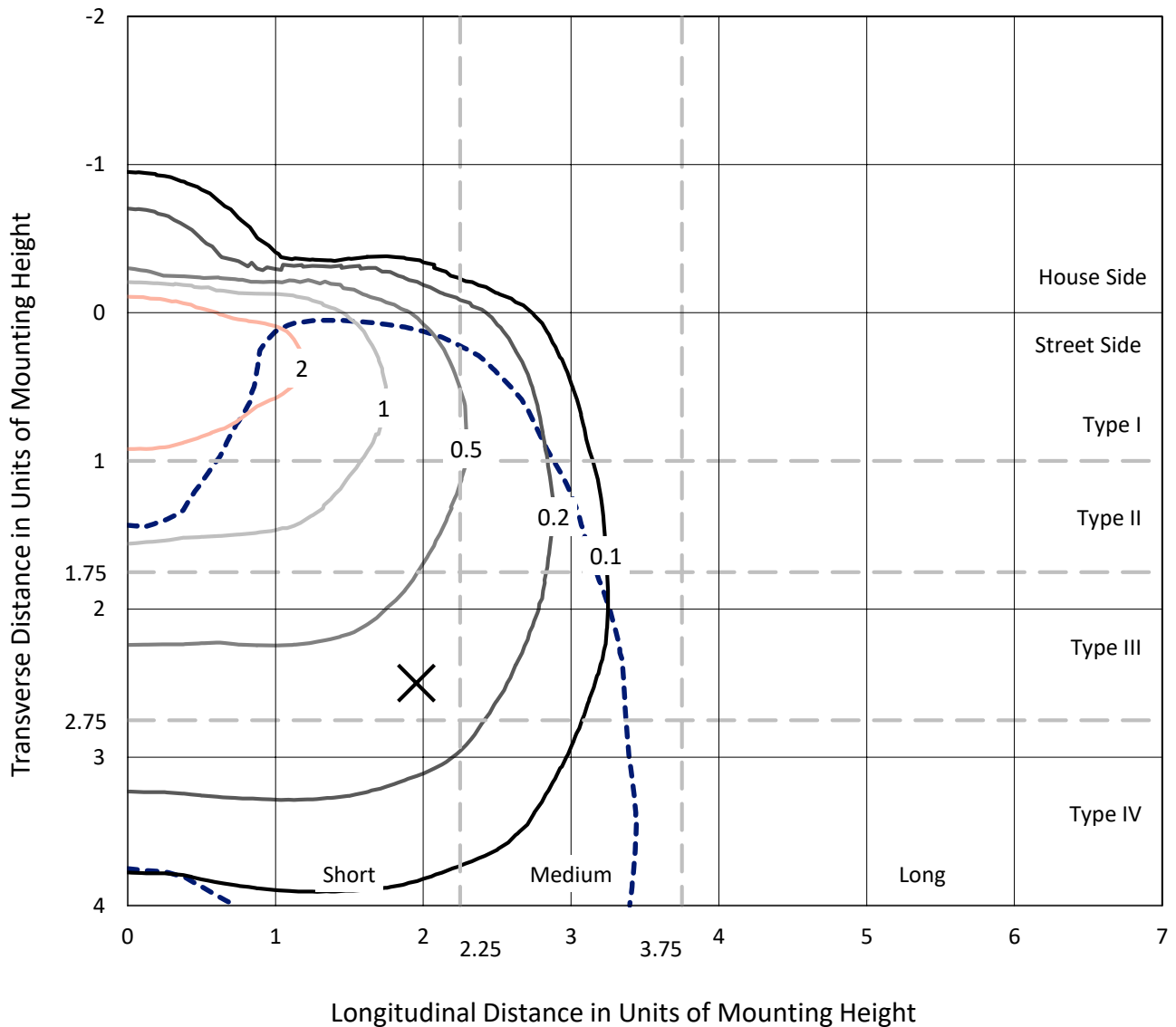
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

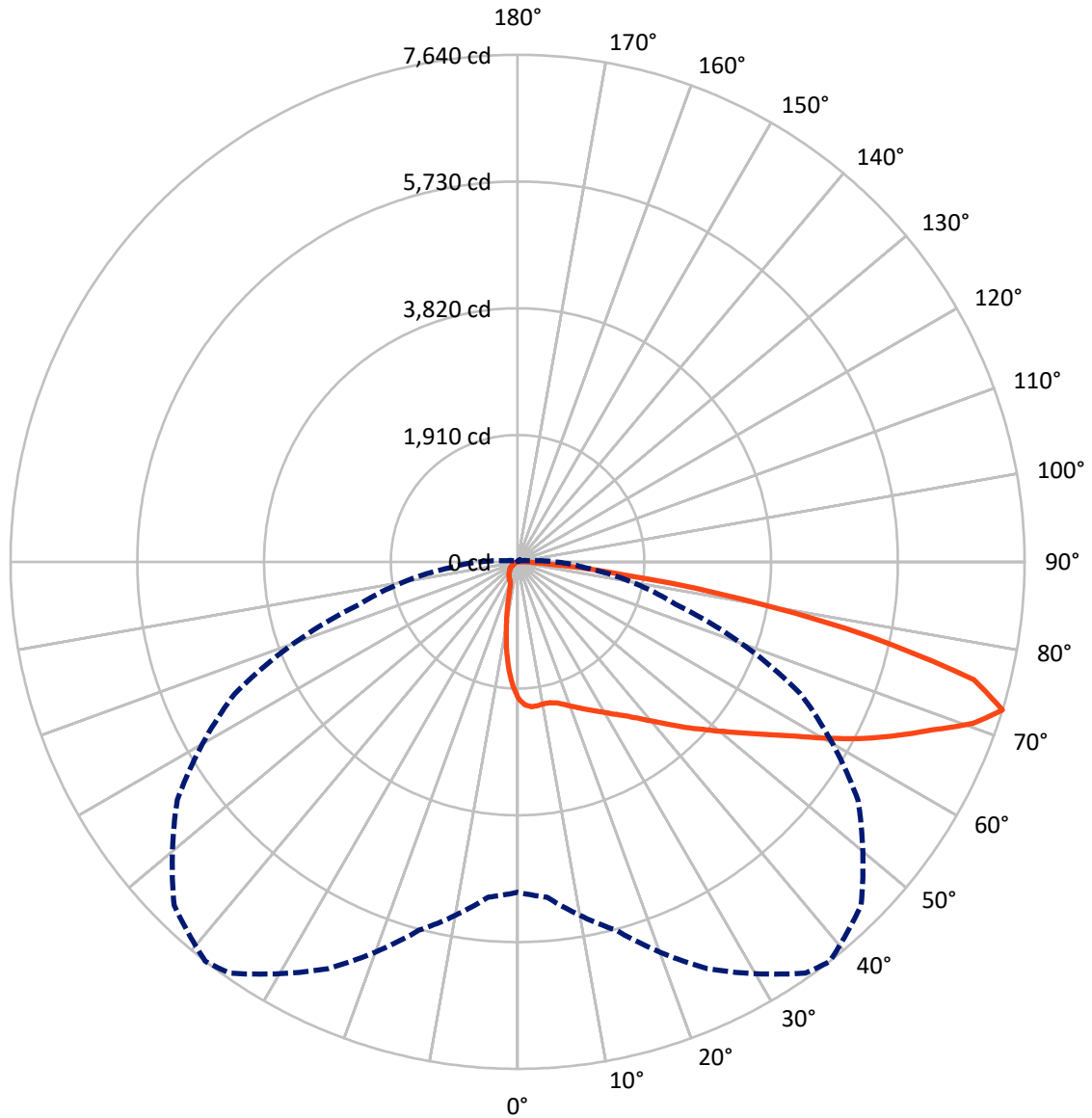
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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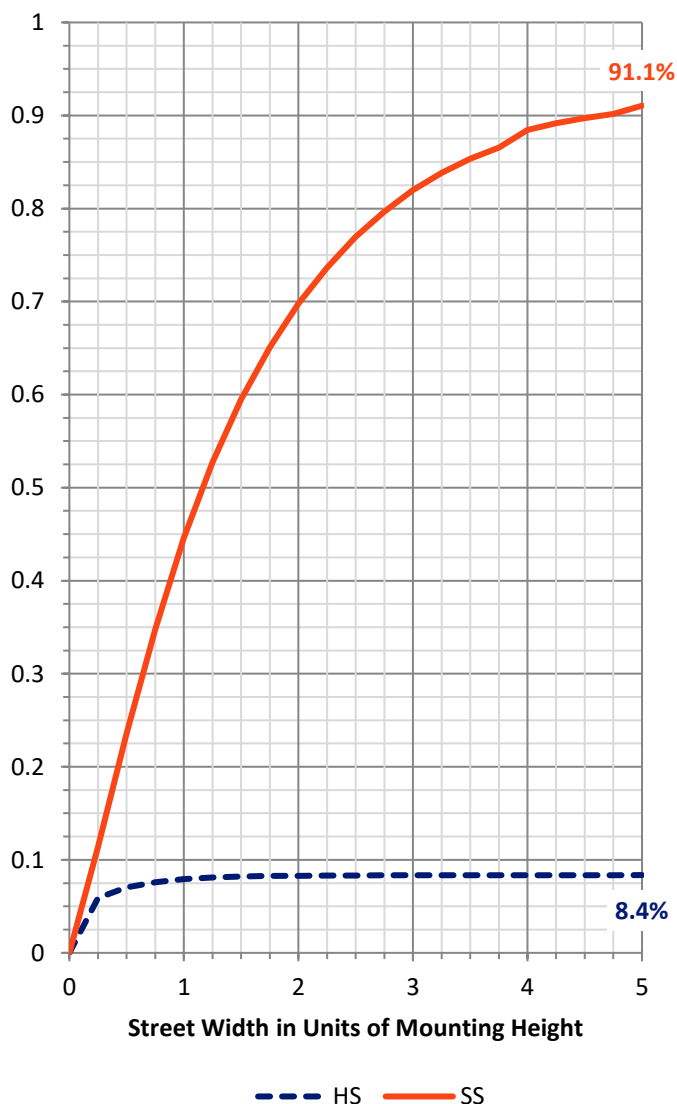
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	943.9	0.0	943.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	10272.1	0.0	10272.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	11216.0	0.0	11216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	1.6
10°-20°	429.8	3.8
20°-30°	683.6	6.1
30°-40°	1027.7	9.2
40°-50°	1567.8	14.0
50°-60°	2215.9	19.8
60°-70°	2779.5	24.8
70°-80°	2078.3	18.5
80°-90°	257.7	2.3
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°	11216.0	100.0
0°-180°	11216.0	100.0

**Coefficient of Utilization**



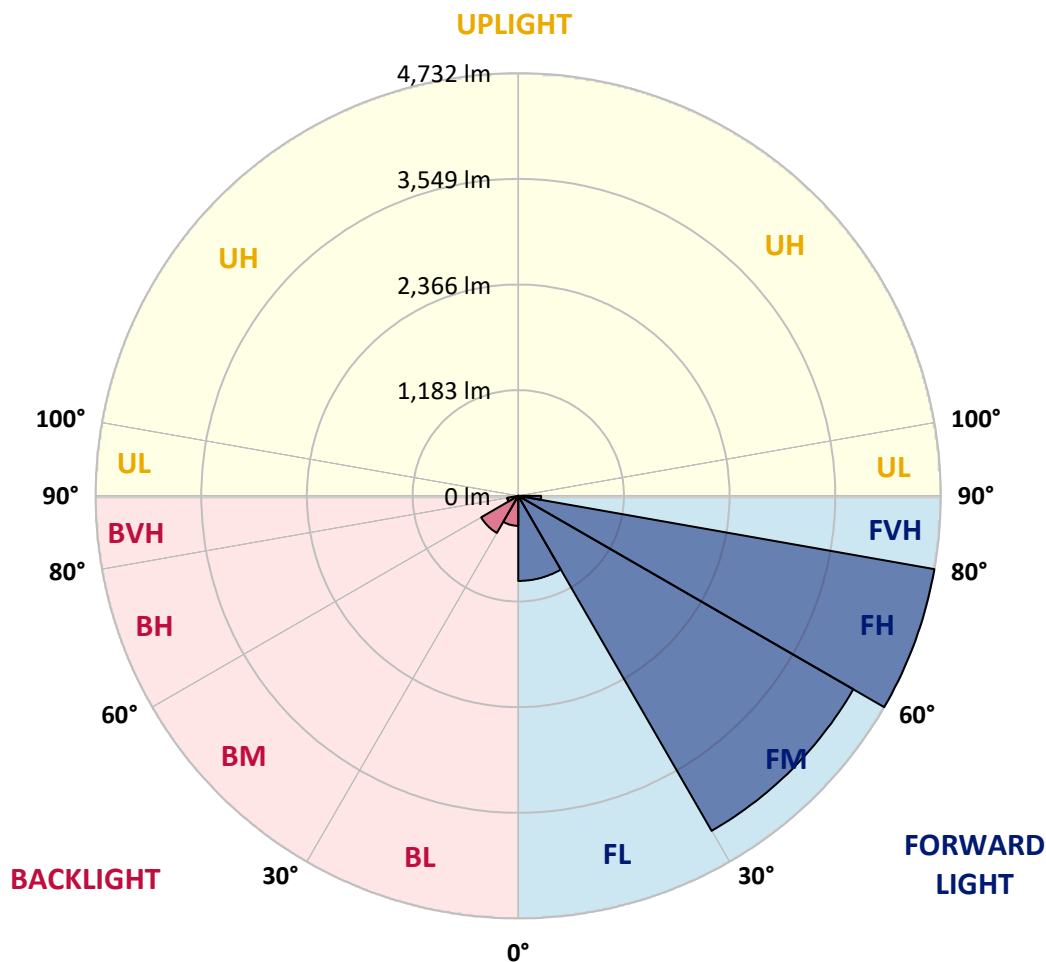
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.1	8.5			
FM (30°-60°)	4332.1	38.6			
FH (60°-80°)	4731.6	42.2			G2/5000
FVH (80°-90°)	255.3	2.3			G3/500
BL (0°-30°)	336.1	3.0	B1/500		
BM (30°-60°)	479.3	4.3	B1/1000		
BH (60°-80°)	126.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6
2.5°	2189.3	2189.8	2184.6	2176.2	2165.5	2159.9	2150.6	2135.7	2119.9	2091.5	2060.7
5°	2234.0	2234.0	2227.5	2216.3	2199.1	2193.9	2176.2	2152.5	2119.9	2073.8	2022.1
7.5°	2229.3	2230.3	2221.4	2209.8	2192.5	2187.9	2166.5	2139.9	2099.4	2043.5	1977.3
10°	2205.1	2207.5	2200.5	2194.9	2179.0	2173.9	2153.9	2127.3	2086.8	2027.2	1951.3
12.5°	2180.4	2182.8	2185.1	2190.2	2180.4	2178.6	2162.7	2140.4	2101.7	2039.8	1954.1
15°	2164.6	2169.3	2186.0	2206.1	2208.4	2206.5	2196.3	2175.3	2136.2	2071.9	1974.1
17.5°	2164.6	2172.0	2207.0	2245.2	2258.7	2260.1	2251.2	2221.9	2175.3	2106.4	1992.7
20°	2182.8	2193.0	2247.5	2301.5	2323.9	2323.9	2306.7	2265.7	2211.2	2137.6	2005.3
22.5°	2229.3	2242.9	2311.3	2373.7	2397.5	2392.4	2369.1	2309.5	2248.4	2173.0	2021.1
25°	2321.1	2331.4	2402.6	2465.5	2479.9	2468.3	2439.0	2362.6	2296.0	2221.0	2050.0
27.5°	2439.4	2440.8	2514.4	2567.5	2558.7	2550.7	2514.0	2429.2	2364.4	2289.4	2099.8
30°	2569.4	2569.4	2634.1	2674.7	2647.6	2641.1	2604.3	2509.8	2452.0	2382.6	2170.7
32.5°	2695.1	2700.7	2753.4	2779.0	2748.7	2742.2	2706.3	2611.8	2568.4	2524.7	2281.0
35°	2816.7	2820.9	2870.8	2884.7	2855.9	2857.7	2832.1	2752.0	2735.7	2730.1	2447.3
37.5°	2934.6	2935.5	2986.3	2995.1	2980.7	2996.5	2998.9	2928.1	2958.3	3003.5	2681.6
40°	3042.2	3043.1	3093.4	3116.2	3140.9	3161.4	3179.6	3141.9	3242.0	3346.8	2960.7
42.5°	3128.3	3138.1	3201.9	3245.3	3310.5	3349.6	3399.0	3397.1	3579.7	3737.2	3297.9
45°	3204.3	3221.0	3310.0	3385.9	3497.7	3560.1	3637.5	3698.0	3959.8	4171.8	3639.3
47.5°	3304.4	3320.3	3421.8	3546.2	3695.2	3777.2	3905.3	4036.2	4377.6	4598.4	3972.9
50°	3445.6	3438.6	3538.7	3717.1	3908.6	4016.2	4198.8	4394.9	4792.2	4970.1	4169.0
52.5°	3596.0	3593.2	3667.3	3903.0	4160.1	4285.9	4527.2	4765.7	5188.6	5226.3	4258.9
55°	3782.3	3762.3	3824.7	4114.9	4458.7	4593.8	4877.9	5132.7	5504.4	5370.7	4304.0
57.5°	3977.5	3944.4	4004.1	4351.1	4795.5	4955.2	5266.4	5490.4	5714.5	5469.5	4303.6
60°	4179.2	4140.1	4210.9	4646.4	5213.8	5398.7	5687.5	5732.2	5910.6	5519.3	4271.9
62.5°	4347.8	4324.5	4429.8	4962.2	5681.0	5862.6	6005.6	5952.1	6076.0	5558.0	4197.8
65°	4526.2	4527.6	4697.6	5330.7	6177.5	6300.0	6312.1	6237.1	6214.3	5550.1	3947.2
67.5°	4767.5	4789.9	5073.6	5830.9	6660.5	6755.1	6754.2	6546.0	6315.4	5235.2	3391.5
70°	5022.8	5075.4	5506.7	6403.4	7187.8	7283.8	7234.4	6742.5	5946.5	4233.2	2400.3
72.5°	4979.9	5071.2	5747.6	6764.4	7566.5	7639.7	7318.7	6259.5	4700.0	2460.4	1022.0
75°	3842.0	3947.7	5270.1	6406.7	7169.2	7103.5	6288.4	4870.9	2568.4	686.6	230.1
77.5°	2029.5	2085.9	3481.4	4880.7	5590.1	5452.7	4429.8	2702.1	783.0	170.0	103.4
80°	1063.0	1076.0	1517.1	2769.2	3450.2	3451.2	2625.3	1186.9	322.8	87.1	69.4
82.5°	569.2	580.4	801.7	1279.6	1807.8	1638.7	1005.2	653.1	187.7	49.4	66.6
85°	136.9	139.3	454.6	584.6	710.8	507.7	298.6	548.3	50.8	28.9	54.0
87.5°	52.6	53.6	168.6	252.9	181.2	117.4	139.7	204.5	6.5	11.2	8.4
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°	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6	2062.6
2.5°	2042.1	2030.0	2000.2	1962.4	1928.9	1904.7	1868.3	1844.6	1828.8	1828.3	1822.2
5°	1990.4	1965.7	1901.4	1825.0	1755.6	1693.2	1619.6	1561.4	1518.1	1511.1	1496.2
7.5°	1935.0	1894.4	1795.7	1676.4	1560.0	1441.7	1304.3	1219.0	1145.9	1110.9	1107.2
10°	1901.0	1844.1	1703.9	1531.6	1349.0	1156.6	976.8	852.4	762.5	736.9	717.8
12.5°	1894.0	1819.0	1633.1	1395.6	1134.7	880.4	681.5	549.2	477.5	454.6	448.6
15°	1901.0	1807.3	1573.5	1260.9	917.6	624.6	457.4	380.6	353.5	347.0	346.6
17.5°	1905.1	1793.4	1505.9	1111.4	707.1	446.2	350.3	327.9	323.7	323.3	324.2
20°	1904.7	1771.9	1425.4	944.7	525.9	350.8	316.7	312.1	311.2	311.6	311.2
22.5°	1901.4	1746.8	1336.9	772.8	397.3	313.5	302.3	299.5	299.0	299.0	299.0
25°	1907.5	1726.7	1239.5	608.3	327.5	296.3	289.3	286.9	286.5	286.5	285.5
27.5°	1929.4	1715.6	1132.8	468.1	295.8	280.9	275.3	274.8	273.4	273.0	273.9
30°	1964.8	1715.6	1015.9	364.3	276.7	265.0	260.9	259.9	259.5	259.0	259.5
32.5°	2027.2	1728.6	888.3	302.8	258.5	247.3	244.5	245.9	244.5	244.5	244.5
35°	2139.9	1767.7	754.6	264.1	239.4	230.1	227.3	229.2	228.2	228.2	227.8
37.5°	2304.3	1840.4	620.0	240.8	222.7	212.9	209.1	211.9	211.0	211.0	210.5
40°	2504.6	1946.1	491.9	223.1	206.4	196.1	192.8	194.2	191.9	191.9	192.8
42.5°	2752.0	2080.3	380.1	205.9	190.0	180.3	178.4	177.0	172.8	170.5	171.0
45°	3026.8	2220.0	296.3	189.1	174.7	166.8	164.0	160.2	153.2	148.6	149.1
47.5°	3272.3	2327.6	240.8	172.8	160.7	154.6	150.5	143.5	133.2	127.6	128.1
50°	3401.3	2343.9	205.0	156.5	147.7	141.6	135.5	124.8	112.7	106.7	106.2
52.5°	3434.4	2267.5	178.4	141.6	134.6	127.6	119.7	105.3	91.8	85.2	84.3
55°	3446.5	2151.1	154.6	127.6	120.6	112.7	102.5	86.2	73.6	67.1	66.6
57.5°	3406.4	1977.3	136.0	115.1	106.7	96.9	84.3	68.9	56.8	51.7	51.7
60°	3317.5	1742.1	121.6	101.5	92.2	81.1	68.0	53.6	42.4	38.2	38.2
62.5°	3140.0	1437.5	108.1	87.6	78.7	67.1	55.0	40.5	29.8	27.5	27.9
65°	2805.1	1090.4	94.6	75.0	67.1	55.4	42.9	28.9	20.0	20.0	21.0
67.5°	2287.6	757.4	80.6	63.8	57.8	45.2	32.6	20.0	14.0	15.8	17.7
70°	1514.3	424.8	68.9	52.6	49.4	35.9	24.2	13.5	11.2	14.9	18.2
72.5°	571.5	165.4	57.8	42.4	42.9	27.5	17.2	10.2	10.2	16.3	21.4
75°	159.3	81.1	41.5	31.2	33.5	20.0	12.6	8.9	9.8	18.6	25.2
77.5°	93.6	59.6	27.0	18.2	22.8	14.0	8.4	7.0	8.4	15.8	24.2
80°	75.5	31.7	15.8	9.3	12.6	7.9	5.6	4.2	2.3	6.1	12.6
82.5°	75.5	19.1	7.5	6.5	6.5	4.2	2.8	1.9	0.5	0.0	3.3
85°	50.8	7.9	4.7	4.2	3.3	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	8.4	3.3	1.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
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)