

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: P193774

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18188 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

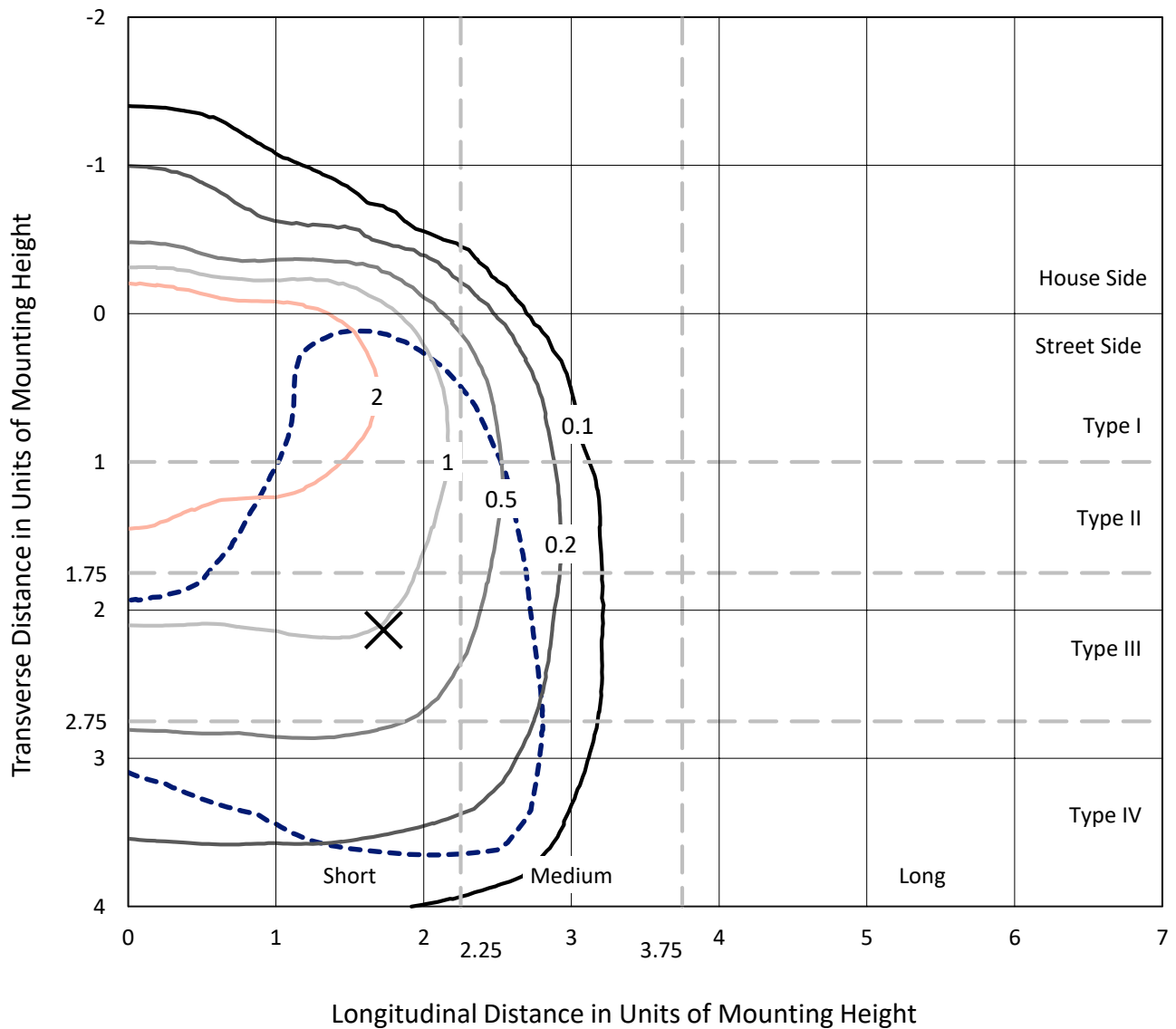


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Iso-Footcandle Lines of Horizontal Illumination

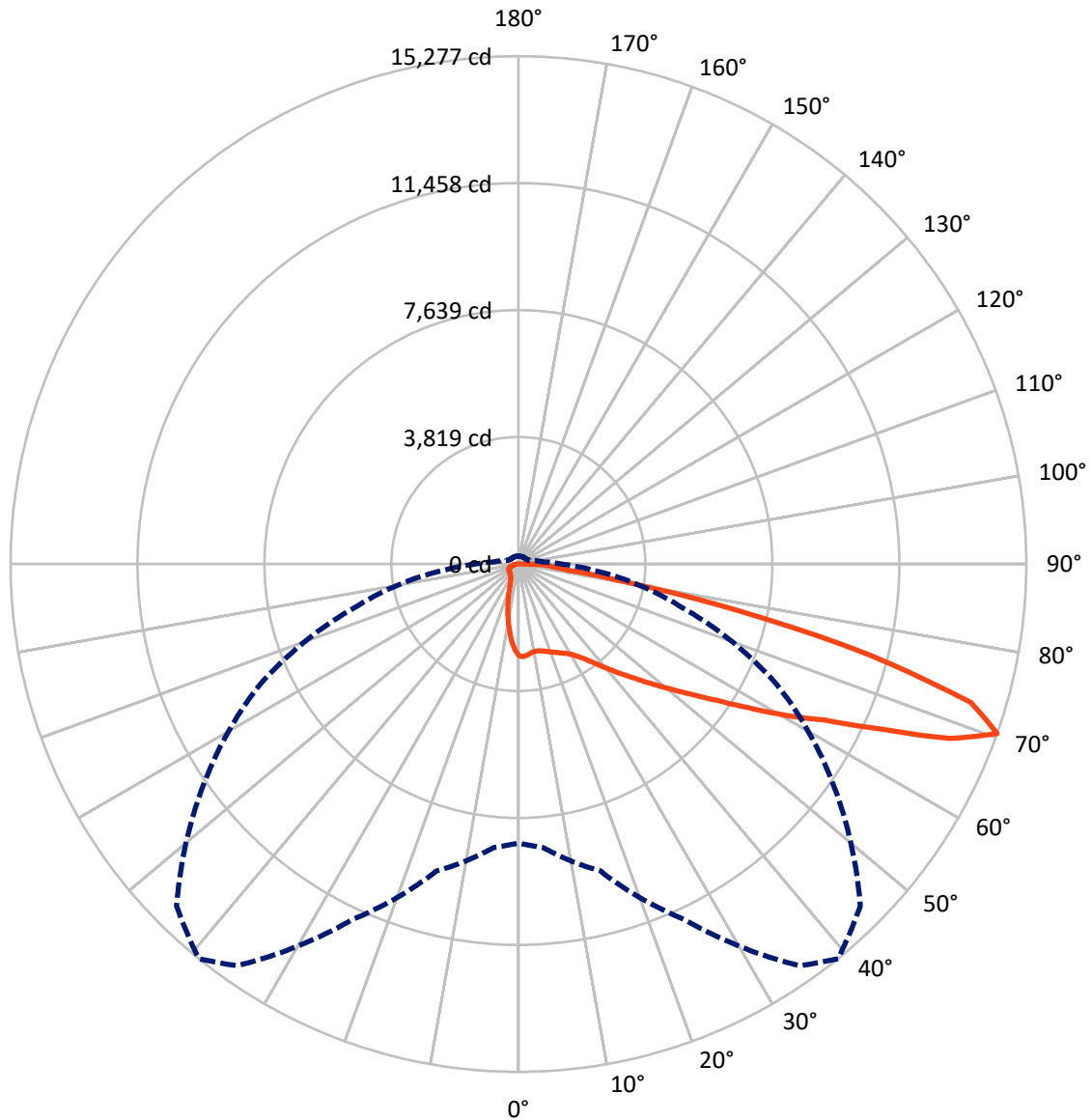
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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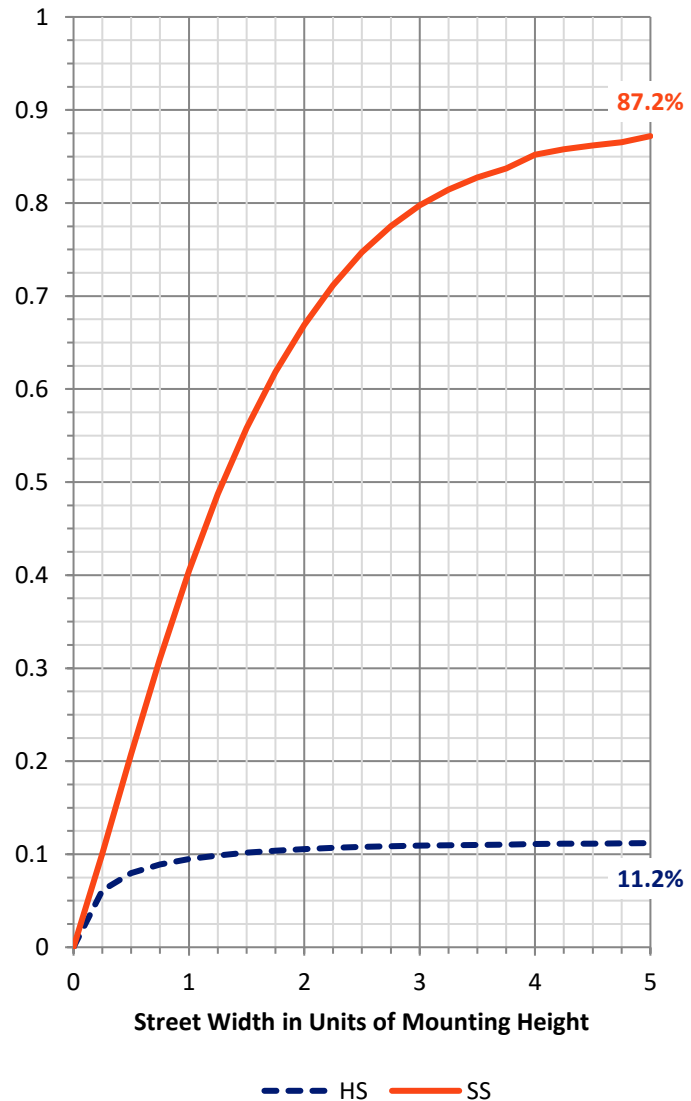
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.6	0.0	2068.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16119.4	0.0	16119.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	18188.0	0.0	18188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.3
10°-20°	592.3	3.3
20°-30°	922.3	5.1
30°-40°	1436.7	7.9
40°-50°	2412.0	13.3
50°-60°	3831.7	21.1
60°-70°	5111.0	28.1
70°-80°	3086.4	17.0
80°-90°	558.6	3.1
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°	18188.0	100.0
0°-180°	18188.0	100.0



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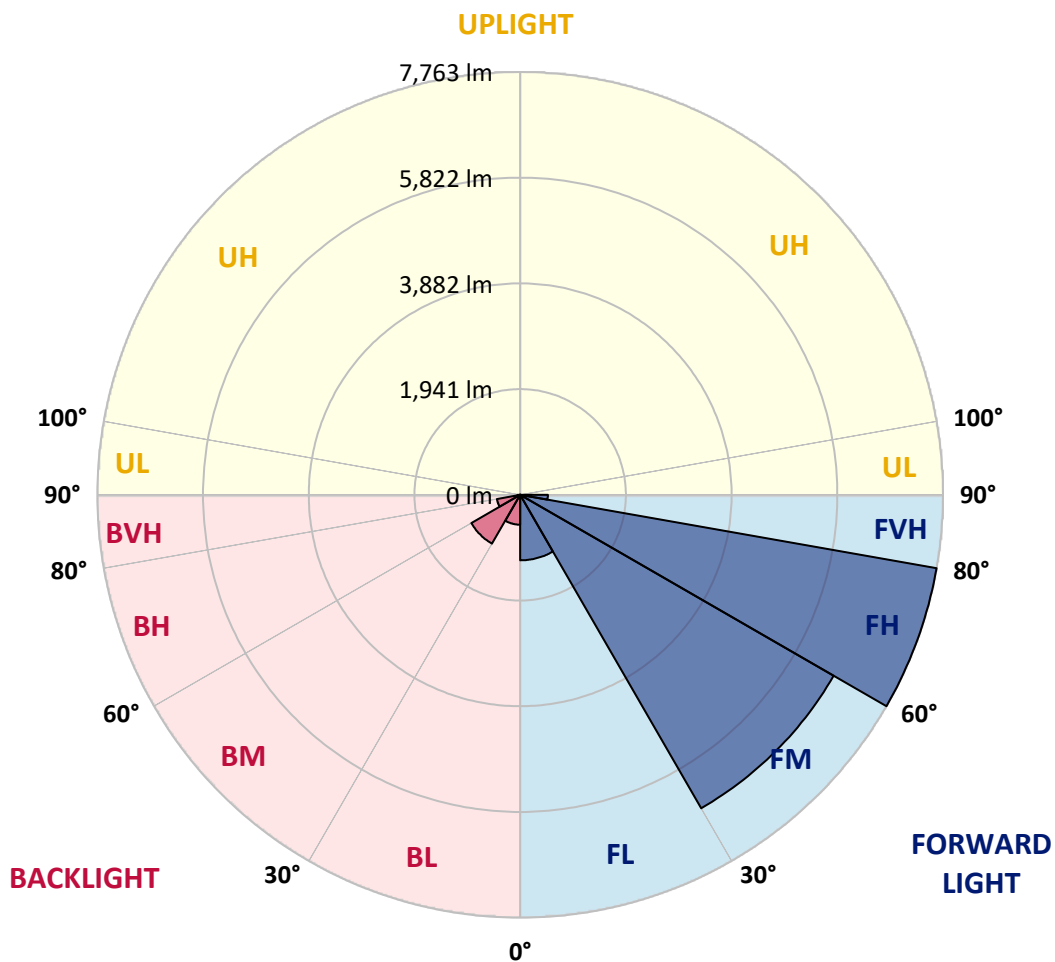
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.8	6.6			
FM	(30°-60°)	6645.2	36.5			
FH	(60°-80°)	7763.2	42.7			G4/12000
FVH	(80°-90°)	508.3	2.8			G4/750
BL	(0°-30°)	548.8	3.0	B2/1000		
BM	(30°-60°)	1035.2	5.7	B2/2500		
BH	(60°-80°)	434.3	2.4	B1/500		G1/500
BVH	(80°-90°)	50.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2814.9	2813.9	2806.5	2801.0	2796.4	2794.5	2798.2	2784.3	2772.3	2757.5	2741.8
5°	2793.6	2792.7	2780.6	2769.5	2758.4	2754.7	2753.8	2728.9	2714.1	2691.9	2662.3
7.5°	2770.5	2765.8	2750.1	2731.6	2712.2	2703.0	2693.7	2661.4	2644.7	2622.5	2588.3
10°	2746.4	2740.9	2726.1	2707.6	2689.1	2675.2	2659.5	2628.1	2610.5	2593.8	2554.1
12.5°	2721.5	2716.8	2713.1	2704.8	2691.9	2679.8	2667.8	2641.0	2622.5	2603.1	2556.9
15°	2717.8	2715.9	2724.2	2729.8	2722.4	2715.0	2702.0	2678.9	2659.5	2640.1	2580.0
17.5°	2747.3	2746.4	2767.7	2782.5	2778.8	2765.8	2748.3	2722.4	2706.7	2690.0	2615.1
20°	2812.1	2816.7	2842.6	2862.0	2843.5	2825.0	2796.4	2760.3	2752.0	2744.6	2651.2
22.5°	2934.1	2938.8	2957.3	2964.7	2916.6	2889.8	2850.0	2803.8	2798.2	2803.8	2694.6
25°	3124.6	3120.0	3117.2	3089.5	3001.6	2960.0	2909.2	2861.1	2863.9	2888.8	2755.7
27.5°	3377.1	3352.1	3313.3	3230.1	3090.4	3044.2	2982.2	2937.8	2955.4	3003.5	2847.2
30°	3638.8	3611.0	3521.3	3385.4	3206.9	3156.1	3086.7	3036.8	3083.0	3158.9	2969.3
32.5°	3881.1	3877.4	3746.0	3571.3	3367.8	3323.5	3254.1	3197.7	3272.6	3388.2	3152.4
35°	4145.5	4153.9	3996.6	3786.7	3585.1	3538.9	3489.0	3446.4	3546.3	3705.4	3417.8
37.5°	4428.5	4445.1	4259.3	4022.5	3833.0	3813.6	3784.0	3765.5	3919.9	4140.0	3788.6
40°	4806.7	4790.1	4532.1	4288.9	4137.2	4136.3	4127.0	4149.2	4406.3	4707.8	4264.8
42.5°	5211.7	5162.7	4821.5	4574.6	4471.0	4502.5	4521.0	4611.6	4991.7	5397.6	4845.5
45°	5648.2	5538.2	5122.0	4877.0	4841.8	4908.4	4971.3	5168.3	5680.6	6182.7	5481.8
47.5°	5996.8	5890.5	5432.7	5194.2	5270.9	5371.7	5492.8	5804.5	6451.8	6993.7	6109.6
50°	6271.5	6202.1	5746.2	5564.1	5743.4	5898.8	6096.7	6524.8	7254.4	7783.4	6691.3
52.5°	6537.8	6486.0	6062.5	5943.2	6298.3	6512.8	6781.9	7297.9	8077.4	8560.2	7180.5
55°	6778.2	6741.2	6402.8	6415.7	6951.1	7230.4	7568.9	8178.2	8974.4	9252.8	7594.7
57.5°	7049.2	7002.0	6791.2	7008.5	7789.9	8152.4	8592.5	9167.7	9815.9	9868.6	7910.1
60°	7321.9	7281.3	7222.1	7692.8	8855.1	9236.1	9653.2	10126.6	10669.4	10346.7	7891.6
62.5°	7558.7	7563.3	7667.8	8411.3	9898.2	10339.3	10847.9	11315.8	11441.6	10429.9	7308.1
65°	7960.0	8033.1	8344.7	9428.5	11366.7	11956.7	12580.8	12505.9	11655.2	9652.2	6056.9
67.5°	8437.2	8565.7	9197.3	10784.1	13222.6	14005.8	14247.2	12775.0	10799.8	7846.3	4317.5
70°	8389.1	8565.7	9565.3	11794.8	14752.1	15277.3	14545.0	11561.8	8575.9	5125.7	2293.3
72.5°	7449.6	7702.0	8815.4	11331.5	14270.3	14224.1	12627.1	8619.3	5095.2	2058.4	896.1
75°	5677.8	5933.0	6891.0	8952.2	11278.8	10890.5	8959.6	4761.4	1933.6	817.5	565.0
77.5°	3266.1	3464.0	4203.8	5490.1	7155.5	6756.9	4987.0	2117.6	941.4	569.6	441.1
80°	1823.6	1933.6	2383.0	2785.3	3506.5	3214.3	2231.4	1315.9	702.8	413.4	340.3
82.5°	1441.6	1539.7	1927.1	1757.0	1601.6	1477.7	1281.7	1171.6	561.3	260.8	203.4
85°	1259.5	1352.9	1631.2	1383.4	1093.9	1003.3	1041.2	1153.1	436.5	157.2	173.8
87.5°	1167.0	1291.8	1453.7	1066.2	851.7	754.6	960.8	1264.1	140.6	98.0	70.3
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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2727.9	2713.1	2689.1	2667.8	2634.5	2617.0	2597.5	2583.7	2572.6	2563.3	2578.1
5°	2643.8	2616.0	2565.2	2510.6	2445.9	2395.0	2352.5	2312.7	2285.0	2266.5	2279.4
7.5°	2564.3	2518.9	2439.4	2340.5	2229.5	2135.2	2057.5	1989.1	1941.9	1911.4	1923.4
10°	2518.9	2462.5	2339.5	2184.2	2020.5	1873.5	1751.4	1646.0	1573.0	1531.3	1537.8
12.5°	2507.8	2434.8	2264.6	2051.0	1827.3	1622.9	1450.9	1304.8	1202.1	1148.5	1150.4
15°	2516.2	2422.8	2194.4	1923.4	1640.5	1382.5	1167.9	990.4	871.1	810.1	809.1
17.5°	2530.0	2413.5	2120.4	1785.6	1450.9	1151.3	911.8	737.9	632.5	583.5	579.8
20°	2544.8	2398.7	2037.2	1636.8	1253.9	936.7	713.9	578.0	511.4	484.6	482.7
22.5°	2566.1	2385.8	1951.2	1479.6	1060.7	762.9	587.2	495.7	460.5	446.6	444.8
25°	2600.3	2379.3	1859.6	1315.9	886.8	638.1	511.4	455.0	434.6	425.4	424.4
27.5°	2657.7	2388.6	1773.6	1156.8	745.3	553.9	468.8	434.6	419.8	411.5	410.6
30°	2731.6	2417.2	1683.0	1006.1	635.3	496.6	442.9	420.7	408.7	400.4	400.4
32.5°	2854.6	2465.3	1587.7	875.7	556.7	456.8	423.5	408.7	398.6	392.1	391.2
35°	3035.9	2555.9	1499.0	767.5	500.3	428.1	406.9	395.8	388.4	384.7	384.7
37.5°	3299.4	2699.3	1420.4	689.8	466.1	408.7	391.2	382.8	378.2	378.2	378.2
40°	3653.6	2897.2	1356.6	638.1	446.6	394.9	379.1	372.7	369.9	370.8	370.8
42.5°	4091.0	3154.2	1314.0	602.0	437.4	386.5	370.8	365.3	362.5	361.6	362.5
45°	4589.4	3446.4	1309.4	575.2	428.1	381.0	365.3	359.7	354.2	350.5	350.5
47.5°	5074.0	3743.3	1347.3	565.9	418.0	374.5	360.6	355.1	346.8	338.4	338.4
50°	5502.1	3995.7	1398.2	569.6	414.3	365.3	353.2	350.5	337.5	328.3	327.4
52.5°	5842.4	4189.9	1439.8	580.7	418.0	358.8	344.0	344.9	331.1	320.9	320.0
55°	6115.2	4317.5	1428.7	591.8	426.3	355.1	335.7	337.5	326.4	316.3	316.3
57.5°	6234.5	4270.4	1305.7	582.6	432.8	356.0	329.2	336.6	327.4	318.1	318.1
60°	5978.3	3851.5	1075.5	541.9	424.4	353.2	326.4	340.3	339.4	330.1	329.2
62.5°	5203.4	3101.5	834.1	481.8	395.8	339.4	319.0	339.4	349.5	346.8	345.8
65°	4010.5	2209.2	637.1	417.0	356.9	316.3	299.6	318.1	332.0	335.7	334.7
67.5°	2603.1	1353.8	491.0	356.0	313.5	289.4	274.6	283.0	285.7	285.7	283.9
70°	1279.8	728.7	391.2	299.6	269.1	260.8	252.4	247.8	243.2	239.5	239.5
72.5°	631.6	476.2	321.8	253.4	232.1	228.4	226.6	221.0	217.3	212.7	210.8
75°	467.0	387.5	273.7	213.6	199.7	196.0	199.7	195.1	194.2	190.5	188.6
77.5°	383.8	330.1	235.8	183.1	171.1	164.6	170.1	171.1	172.0	166.4	164.6
80°	311.6	279.3	197.0	151.7	140.6	135.9	139.6	147.0	148.9	140.6	136.9
82.5°	224.7	228.4	159.1	118.4	109.1	105.4	112.8	122.1	123.9	111.9	109.1
85°	188.6	190.5	122.1	84.1	74.9	69.4	81.4	90.6	97.1	85.1	82.3
87.5°	78.6	111.9	70.3	47.2	41.6	36.1	43.5	48.1	58.3	53.6	52.7
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)