

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: P269166

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269166
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-03-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 16457.5 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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

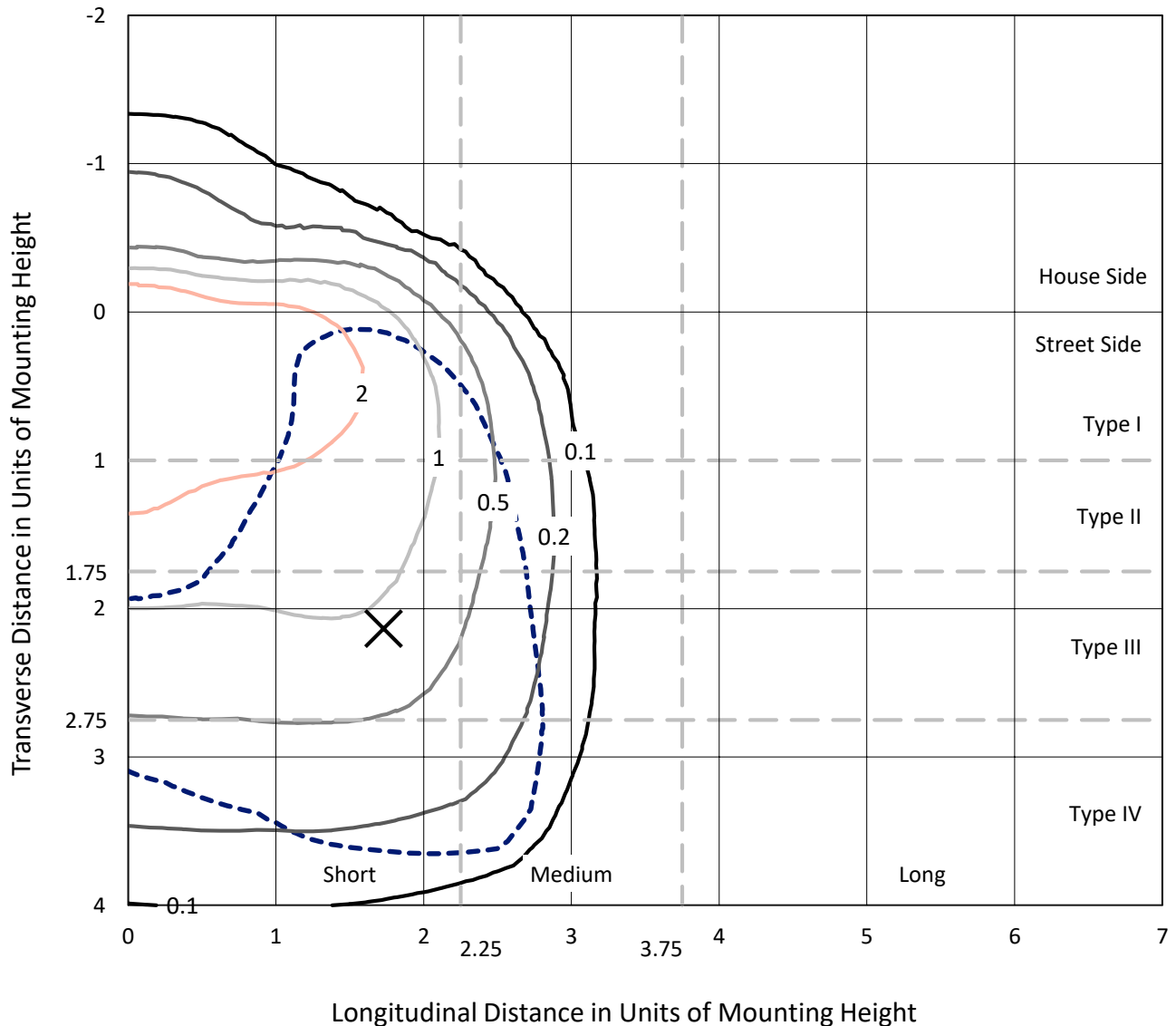


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

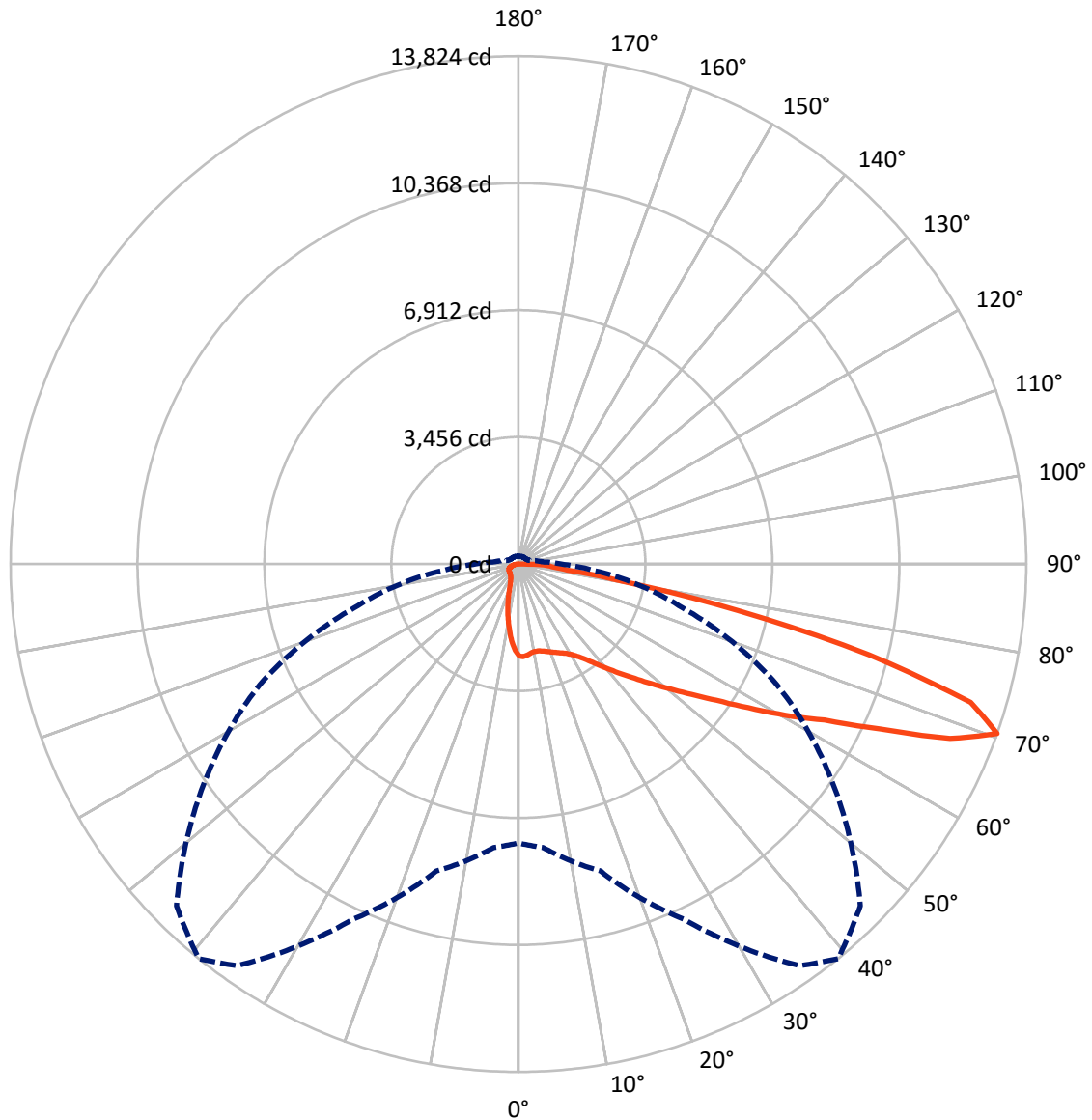


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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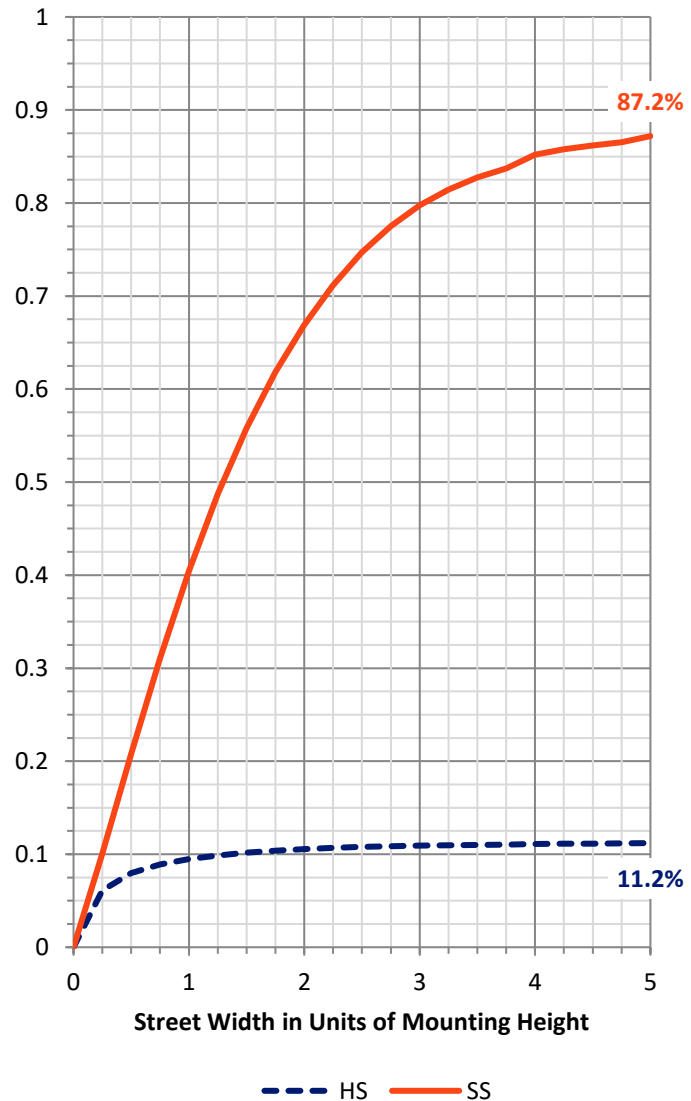
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.8	0.0	1871.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	14585.7	0.0	14585.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	16457.5	0.0	16457.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.3
10°-20°	536.0	3.3
20°-30°	834.5	5.1
30°-40°	1300.0	7.9
40°-50°	2182.5	13.3
50°-60°	3467.1	21.1
60°-70°	4624.7	28.1
70°-80°	2792.8	17.0
80°-90°	505.5	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°	16457.5	100.0
0°-180°	16457.5	100.0

Coefficient of Utilization



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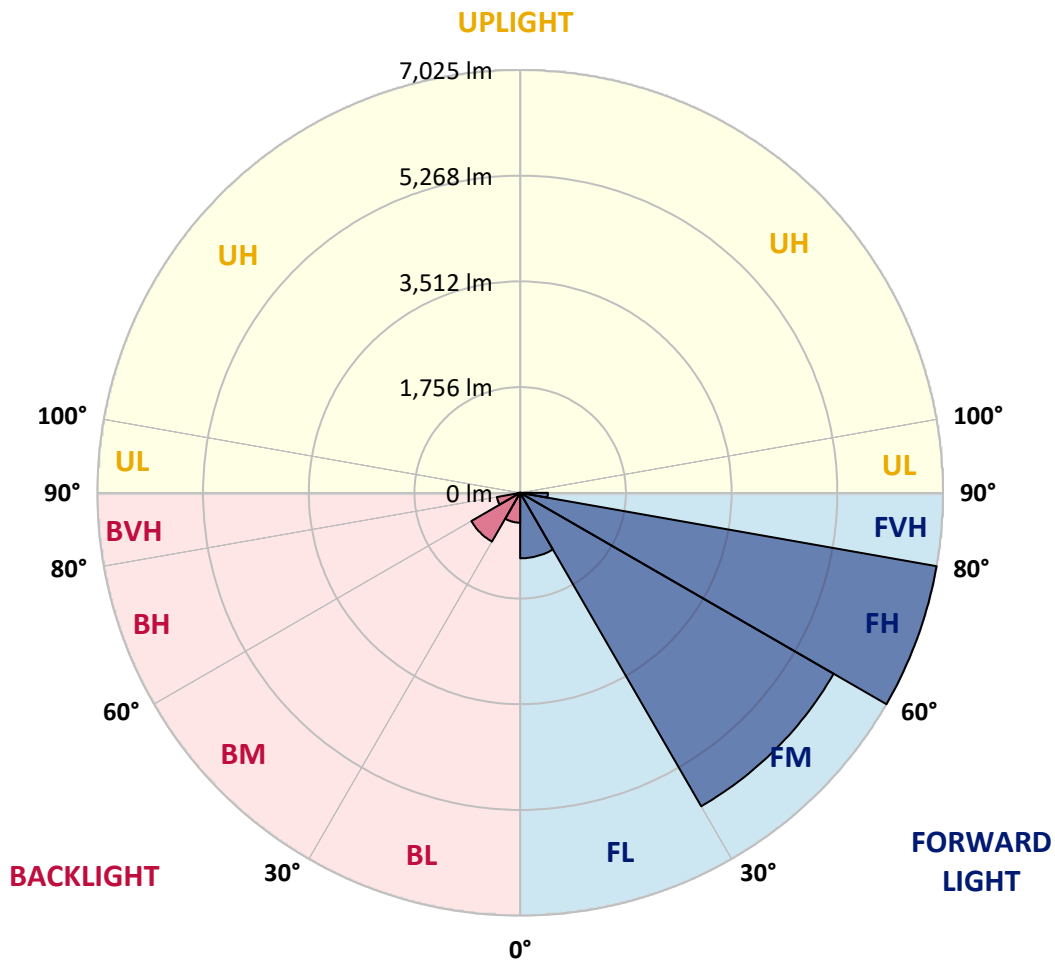
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.4	6.6			
FM	(30°-60°)	6012.9	36.5			
FH	(60°-80°)	7024.5	42.7			G3/7500
FVH	(80°-90°)	459.9	2.8			G3/500
BL	(0°-30°)	496.5	3.0	B1/500		
BM	(30°-60°)	936.7	5.7	B1/1000		
BH	(60°-80°)	393.0	2.4	B1/500		G1/500
BVH	(80°-90°)	45.6	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5
2.5°	2547.1	2546.2	2539.5	2534.5	2530.3	2528.5	2532.0	2519.4	2508.5	2495.1	2480.8
5°	2527.8	2526.9	2516.1	2506.0	2496.0	2492.6	2491.8	2469.3	2455.8	2435.8	2409.0
7.5°	2506.9	2502.7	2488.5	2471.7	2454.2	2445.7	2437.5	2408.1	2393.1	2373.1	2342.1
10°	2485.2	2480.1	2466.7	2449.9	2433.1	2420.8	2406.5	2378.1	2362.2	2347.0	2311.1
12.5°	2462.6	2458.3	2455.0	2447.4	2435.8	2424.9	2413.9	2389.8	2373.1	2355.4	2313.6
15°	2459.2	2457.6	2464.9	2470.1	2463.3	2456.7	2444.9	2424.0	2406.5	2389.0	2334.4
17.5°	2486.0	2485.2	2504.4	2517.8	2514.4	2502.7	2486.8	2463.3	2449.0	2434.0	2366.2
20°	2544.4	2548.8	2572.1	2589.8	2572.9	2556.2	2530.3	2497.6	2490.1	2483.5	2399.0
22.5°	2655.0	2659.2	2676.0	2682.6	2639.1	2614.7	2578.9	2537.1	2532.0	2537.1	2438.3
25°	2827.3	2823.2	2820.7	2795.5	2716.0	2678.3	2632.4	2588.8	2591.4	2614.0	2493.4
27.5°	3055.8	3033.1	2998.1	2922.7	2796.3	2754.6	2698.5	2658.4	2674.3	2717.7	2576.2
30°	3292.6	3267.4	3186.3	3063.3	2901.9	2855.8	2793.0	2747.8	2789.6	2858.2	2686.8
32.5°	3511.8	3508.4	3389.7	3231.6	3047.4	3007.3	2944.5	2893.4	2961.3	3065.8	2852.5
35°	3751.1	3758.6	3616.3	3426.4	3244.0	3202.2	3157.1	3118.6	3208.8	3352.8	3092.5
37.5°	4007.1	4022.3	3854.0	3639.8	3468.3	3450.7	3423.9	3407.2	3547.0	3746.1	3428.1
40°	4349.4	4334.3	4100.9	3880.8	3743.5	3742.7	3734.3	3754.5	3987.0	4259.9	3858.9
42.5°	4715.8	4671.5	4362.8	4139.3	4045.6	4074.1	4090.8	4172.7	4516.7	4884.1	4384.4
45°	5110.7	5011.3	4634.6	4413.0	4381.2	4441.4	4498.4	4676.5	5140.1	5594.5	4960.3
47.5°	5426.2	5330.1	4915.9	4699.9	4769.5	4860.5	4970.2	5252.2	5837.9	6328.3	5528.3
50°	5674.8	5612.0	5199.5	5034.6	5197.0	5337.5	5516.6	5904.0	6564.3	7042.8	6054.7
52.5°	5915.8	5868.8	5485.7	5377.8	5699.0	5893.2	6136.6	6603.5	7308.9	7745.6	6497.4
55°	6133.3	6099.9	5793.6	5805.2	6289.8	6542.4	6848.7	7400.1	8120.6	8372.5	6872.2
57.5°	6378.4	6335.7	6145.0	6341.7	7048.7	7376.7	7775.0	8295.4	8882.0	8929.7	7157.4
60°	6625.3	6588.4	6534.9	6960.8	8012.6	8357.3	8734.7	9163.2	9654.3	9362.2	7140.7
62.5°	6839.4	6843.6	6938.1	7611.0	8956.5	9355.6	9815.8	10239.2	10353.0	9437.6	6612.8
65°	7202.6	7268.7	7550.8	8531.5	10285.1	10819.0	11383.9	11316.0	10546.2	8734.0	5480.6
67.5°	7634.3	7750.7	8322.2	9758.1	11964.5	12673.3	12891.7	11559.5	9772.2	7099.8	3906.6
70°	7590.9	7750.7	8655.2	10672.7	13348.5	13823.7	13161.1	10461.8	7759.9	4638.0	2075.2
72.5°	6740.7	6969.2	7976.6	10253.4	12912.5	12870.7	11425.6	7799.3	4610.5	1862.5	810.8
75°	5137.5	5368.5	6235.3	8100.5	10205.7	9854.2	8107.2	4308.5	1749.5	739.7	511.2
77.5°	2955.3	3134.5	3803.9	4967.6	6474.7	6114.0	4512.5	1916.2	851.9	515.4	399.1
80°	1650.0	1749.5	2156.3	2520.3	3173.0	2908.5	2019.0	1190.7	635.9	374.1	307.8
82.5°	1304.5	1393.2	1743.8	1589.8	1449.2	1337.0	1159.7	1060.2	507.9	236.0	184.2
85°	1139.6	1224.1	1476.1	1251.8	989.8	907.8	942.1	1043.4	395.0	142.2	157.4
87.5°	1056.0	1169.0	1315.4	964.8	770.7	682.8	869.4	1143.8	127.2	88.8	63.6
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°	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5
2.5°	2468.5	2455.0	2433.1	2413.9	2383.8	2367.9	2350.3	2337.8	2327.8	2319.5	2332.8
5°	2392.2	2367.2	2321.1	2271.8	2213.2	2167.2	2128.7	2092.7	2067.5	2050.8	2062.6
7.5°	2320.3	2279.3	2207.3	2117.8	2017.4	1932.1	1861.7	1799.8	1757.2	1729.5	1740.5
10°	2279.3	2228.2	2116.9	1976.5	1828.3	1695.2	1584.8	1489.4	1423.3	1385.6	1391.6
12.5°	2269.3	2203.2	2049.2	1855.9	1653.4	1468.5	1312.9	1180.6	1087.8	1039.2	1040.9
15°	2276.8	2192.3	1985.6	1740.5	1484.4	1250.9	1056.8	896.1	788.3	732.9	732.2
17.5°	2289.3	2183.9	1918.6	1615.7	1312.9	1041.8	825.1	667.7	572.3	527.9	524.6
20°	2302.7	2170.6	1843.3	1481.0	1134.6	847.6	645.9	523.0	462.6	438.5	436.8
22.5°	2321.9	2158.7	1765.4	1338.7	959.7	690.3	531.3	448.6	416.8	404.1	402.5
25°	2352.9	2152.9	1682.6	1190.7	802.5	577.3	462.6	411.7	393.3	385.0	384.0
27.5°	2404.9	2161.3	1604.8	1046.7	674.4	501.3	424.2	393.3	379.9	372.3	371.4
30°	2471.7	2187.3	1522.8	910.3	574.8	449.3	400.9	380.7	369.8	362.2	362.2
32.5°	2582.9	2230.8	1436.7	792.3	503.7	413.3	383.2	369.8	360.6	354.8	353.9
35°	2746.9	2312.7	1356.4	694.5	452.7	387.3	368.1	358.2	351.4	348.2	348.2
37.5°	2985.4	2442.4	1285.3	624.2	421.8	369.8	353.9	346.3	342.3	342.3	342.3
40°	3305.9	2621.6	1227.5	577.3	404.1	357.3	343.1	337.3	334.7	335.5	335.5
42.5°	3701.7	2854.2	1188.9	544.7	395.8	349.8	335.5	330.4	328.1	327.2	328.1
45°	4152.8	3118.6	1184.9	520.5	387.3	344.7	330.4	325.5	320.4	317.1	317.1
47.5°	4591.1	3387.1	1219.1	512.0	378.1	338.9	326.4	321.4	313.8	306.2	306.2
50°	4978.5	3615.6	1265.2	515.4	374.9	330.4	319.6	317.1	305.5	297.0	296.3
52.5°	5286.5	3791.2	1302.8	525.5	378.1	324.6	311.3	312.2	299.6	290.3	289.6
55°	5533.4	3906.6	1292.8	535.5	385.7	321.4	303.7	305.5	295.4	286.2	286.2
57.5°	5641.3	3864.1	1181.5	527.1	391.7	322.1	297.9	304.5	296.3	287.8	287.8
60°	5409.6	3485.1	973.1	490.4	384.0	319.6	295.4	307.8	307.1	298.7	297.9
62.5°	4708.3	2806.5	754.8	435.9	358.2	307.1	288.6	307.1	316.4	313.8	312.9
65°	3629.0	1999.0	576.5	377.4	323.0	286.2	271.1	287.8	300.5	303.7	302.9
67.5°	2355.4	1225.0	444.3	322.1	283.7	261.9	248.6	256.0	258.5	258.5	256.8
70°	1158.0	659.4	353.9	271.1	243.5	236.0	228.3	224.2	220.1	216.8	216.8
72.5°	571.5	430.9	291.2	229.2	210.1	206.7	205.1	200.1	196.5	192.4	190.8
75°	422.6	350.6	247.7	193.2	180.6	177.3	180.6	176.5	175.7	172.4	170.7
77.5°	347.3	298.7	213.3	165.6	154.8	148.8	154.0	154.8	155.6	150.6	148.8
80°	282.0	252.8	178.3	137.3	127.2	123.0	126.3	133.0	134.7	127.2	123.8
82.5°	203.3	206.7	143.9	107.1	98.8	95.4	102.0	110.4	112.1	101.2	98.8
85°	170.7	172.4	110.4	76.1	67.8	62.7	73.7	81.9	87.9	77.0	74.5
87.5°	71.1	101.2	63.6	42.7	37.6	32.6	39.3	43.5	52.7	48.5	47.7
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)