

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: P269180

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16995.3 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

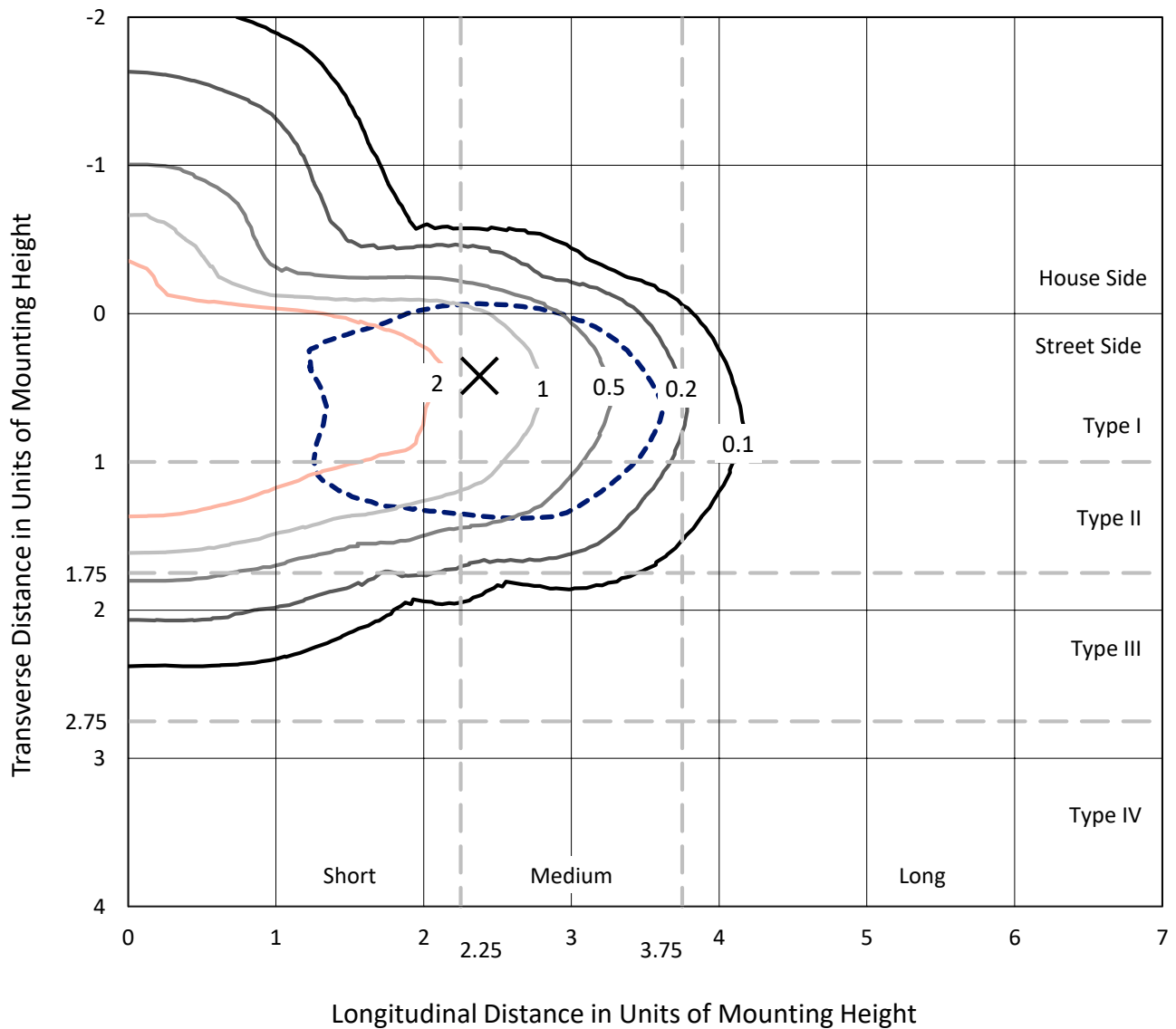
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

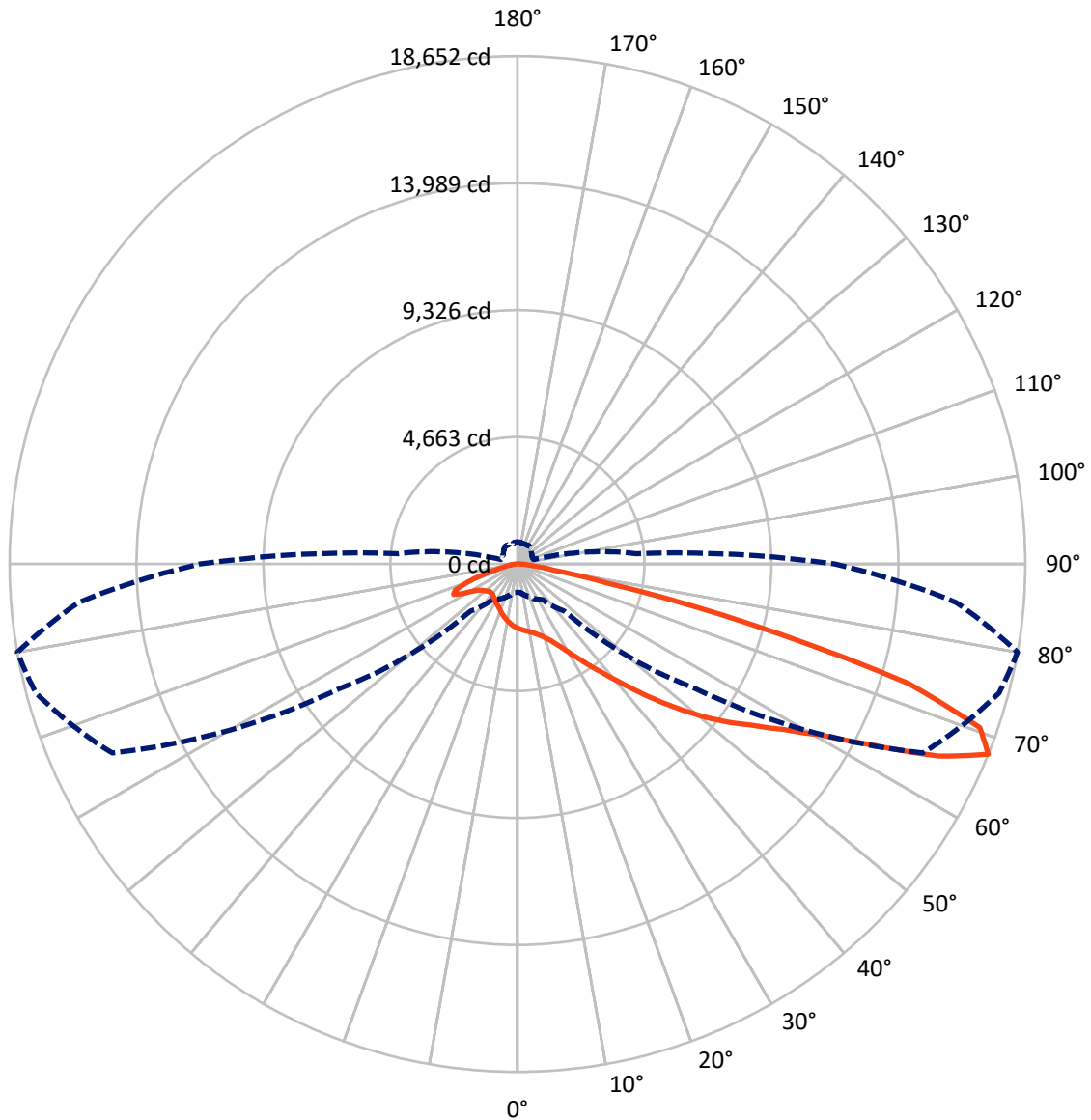
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3129.9	0.0	3129.9
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	13865.4	0.0	13865.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	16995.3	0.0	16995.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.8	1.3
10°-20°	627.4	3.7
20°-30°	1038.5	6.1
30°-40°	1698.8	10.0
40°-50°	2742.9	16.1
50°-60°	3959.9	23.3
60°-70°	4370.0	25.7
70°-80°	2014.3	11.9
80°-90°	325.8	1.9
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°	16995.3	100.0
0°-180°	16995.3	100.0



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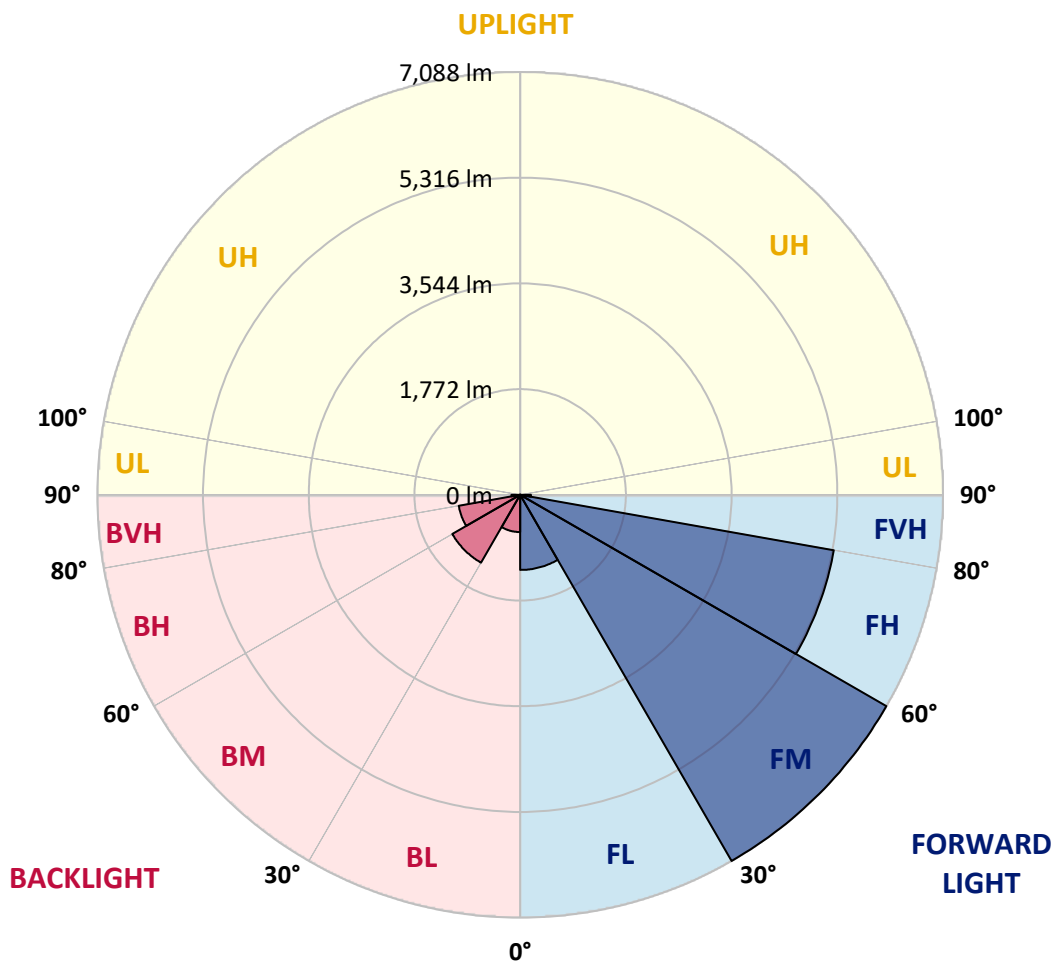
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.3	7.4			
FM (30°-60°)	7088.3	41.7			
FH (60°-80°)	5338.7	31.4			G3/7500
FVH (80°-90°)	179.1	1.1			G2/225
BL (0°-30°)	624.4	3.7	B2/1000		
BM (30°-60°)	1313.2	7.7	B2/2500		
BH (60°-80°)	1045.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	146.7	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1
2.5°	2582.8	2567.8	2570.3	2566.2	2553.6	2531.9	2508.3	2465.8	2421.4	2397.9	2379.6
5°	2798.7	2794.5	2788.7	2775.4	2743.6	2698.2	2642.3	2566.9	2485.8	2443.1	2402.2
7.5°	2960.3	2957.7	2950.2	2941.8	2910.9	2856.5	2772.0	2664.8	2546.9	2488.3	2424.7
10°	2973.6	2977.8	2983.6	3006.3	3010.4	2981.1	2895.0	2765.3	2610.5	2535.1	2454.0
12.5°	2859.8	2869.0	2891.6	2949.3	3010.4	3046.4	3002.0	2870.8	2684.9	2593.8	2490.8
15°	2709.2	2714.1	2741.8	2821.3	2930.9	3042.2	3084.1	2987.0	2781.2	2669.0	2546.1
17.5°	2644.8	2647.2	2666.6	2719.3	2821.3	2980.2	3130.1	3113.3	2899.1	2762.7	2613.8
20°	2612.1	2618.0	2645.6	2697.5	2761.8	2900.7	3136.7	3249.7	3039.8	2879.8	2699.1
22.5°	2705.1	2702.6	2712.5	2738.6	2792.9	2876.6	3131.8	3390.3	3218.7	3030.5	2810.4
25°	2921.7	2930.9	2913.4	2884.1	2901.6	2960.3	3158.5	3542.6	3443.1	3223.7	2956.1
27.5°	3230.5	3221.2	3195.4	3126.7	3090.8	3115.9	3247.3	3706.5	3721.6	3478.1	3148.5
30°	3538.3	3530.9	3505.7	3422.1	3348.4	3327.5	3419.6	3894.8	4053.8	3783.5	3384.5
32.5°	3858.0	3849.6	3826.2	3742.5	3653.9	3605.3	3664.7	4112.4	4445.4	4148.4	3662.2
35°	4252.0	4236.1	4186.8	4070.5	3983.5	3945.9	3973.5	4386.0	4897.2	4580.1	3999.4
37.5°	4622.7	4647.0	4596.7	4436.1	4323.3	4309.8	4340.8	4719.8	5384.1	5062.8	4386.8
40°	4995.0	4999.2	4954.1	4822.7	4706.4	4684.7	4762.5	5124.7	5958.9	5640.2	4857.9
42.5°	5379.9	5388.4	5312.1	5190.9	5105.4	5109.6	5198.4	5599.1	6618.3	6320.4	5400.0
45°	5835.8	5848.4	5764.9	5605.9	5528.0	5684.5	5647.6	6131.3	7341.2	7093.5	6022.4
47.5°	6312.8	6332.2	6268.6	6119.6	6022.4	6237.6	6096.9	6721.2	8119.3	7922.6	6706.0
50°	6573.1	6600.7	6662.5	6651.7	6630.7	6594.7	6598.2	7353.6	8921.6	8786.1	7409.0
52.5°	6433.3	6432.6	6658.3	6932.8	7225.6	7247.4	7209.0	8020.5	9671.3	9630.3	8070.7
55°	5794.1	5837.5	6179.8	6711.1	7511.0	8010.5	8124.4	8784.4	10407.7	10455.4	8742.7
57.5°	4729.8	4765.8	5227.6	5968.1	7126.2	8464.0	9426.2	9894.7	11230.9	11453.5	9637.0
60°	3207.8	3251.3	3740.8	4630.3	6090.2	8211.2	10665.3	11876.0	12216.5	12722.8	10892.0
62.5°	1885.1	1924.3	2323.5	2920.8	4288.1	7037.4	11209.2	14694.8	13781.9	14637.9	12806.3
65°	1297.7	1324.6	1518.6	1818.1	2464.1	4739.8	10534.9	16641.0	16190.8	17010.8	15026.2
67.5°	1044.2	1040.9	1194.7	1398.9	1586.3	2444.0	7966.2	16420.9	18309.3	18651.6	16178.3
70°	860.0	856.8	961.4	1130.3	1267.6	1376.4	4339.2	13857.3	17877.6	18016.4	15117.3
72.5°	719.5	722.9	789.8	915.4	1040.0	1036.6	1906.8	9748.2	14064.0	15024.5	12050.9
75°	607.4	609.1	653.4	742.1	844.2	835.1	1034.2	5281.1	8175.4	8843.9	6680.2
77.5°	517.1	518.7	547.2	596.6	669.3	666.1	754.7	2281.7	3410.3	3368.6	2285.0
80°	461.0	461.0	474.5	483.6	523.8	508.7	559.7	1096.0	1441.6	1331.2	912.0
82.5°	361.5	363.2	445.1	441.7	412.5	393.3	393.3	645.9	763.9	706.2	533.9
85°	203.3	202.5	287.0	346.3	363.2	276.9	274.4	361.5	415.8	366.5	258.5
87.5°	87.0	88.8	132.9	154.0	205.8	172.4	169.9	186.6	211.7	183.3	119.7
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°	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1
2.5°	2362.0	2340.3	2292.6	2233.1	2179.6	2144.4	2112.6	2066.6	2069.2	2037.4	2013.9
5°	2360.2	2315.1	2204.7	2073.3	1946.9	1855.8	1787.2	1725.3	1710.3	1680.9	1663.3
7.5°	2362.0	2288.3	2102.7	1892.5	1736.2	1620.7	1562.2	1529.5	1522.0	1511.8	1512.7
10°	2367.8	2264.1	1990.5	1723.6	1559.5	1483.5	1469.3	1479.2	1490.9	1494.3	1495.1
12.5°	2381.2	2242.3	1867.4	1573.0	1449.1	1425.7	1450.0	1484.3	1506.8	1517.7	1516.9
15°	2411.3	2225.6	1749.4	1455.1	1388.2	1400.6	1445.8	1494.3	1526.9	1542.0	1542.8
17.5°	2444.0	2201.3	1628.2	1364.6	1342.8	1374.6	1430.7	1487.7	1527.7	1544.5	1547.9
20°	2486.7	2171.3	1501.0	1296.9	1300.2	1336.1	1388.9	1445.8	1490.2	1504.4	1511.0
22.5°	2542.7	2138.5	1389.8	1241.6	1251.7	1279.2	1320.2	1369.6	1408.2	1414.8	1420.7
25°	2618.0	2103.4	1301.0	1191.4	1195.6	1211.5	1239.1	1268.4	1295.1	1287.7	1293.5
27.5°	2719.3	2073.3	1235.0	1145.3	1138.0	1141.2	1155.5	1164.7	1178.8	1157.9	1160.5
30°	2838.0	2040.7	1184.0	1105.3	1084.3	1078.4	1081.9	1086.9	1097.8	1069.3	1065.1
32.5°	2976.2	2001.3	1136.3	1070.2	1040.9	1029.1	1030.8	1044.2	1086.1	1068.4	1059.2
35°	3136.7	1957.0	1086.1	1031.7	1011.5	994.9	993.2	1034.9	1159.6	1148.8	1140.4
37.5°	3325.0	1912.8	1035.8	988.1	989.8	971.3	965.6	1013.3	1173.8	1131.2	1125.3
40°	3564.4	1889.2	993.2	942.1	963.1	960.5	948.8	973.0	1080.2	1002.4	992.3
42.5°	3860.5	1892.5	961.4	892.7	931.3	958.0	939.5	940.4	979.0	920.4	911.2
45°	4226.2	1932.0	938.8	853.4	895.3	955.4	936.3	922.9	926.2	895.3	890.2
47.5°	4652.9	2013.1	922.9	820.8	860.9	946.4	935.5	917.9	910.3	893.5	889.4
50°	5127.3	2131.0	911.2	789.8	830.0	931.3	936.3	912.9	904.5	897.8	895.3
52.5°	5593.2	2265.7	893.5	763.1	805.7	912.9	938.8	907.7	898.7	893.5	891.1
55°	6112.8	2434.0	866.9	740.5	785.7	889.4	938.8	900.3	890.2	891.1	890.2
57.5°	6814.8	2705.9	835.1	721.2	761.5	860.9	922.9	891.8	879.4	880.2	881.1
60°	7911.7	3185.3	796.5	701.9	731.3	827.5	901.1	873.5	860.9	864.3	865.2
62.5°	9524.9	3888.9	746.3	673.5	699.5	791.4	870.9	850.1	837.5	845.9	845.9
65°	11201.7	4509.9	684.4	637.5	666.1	752.2	833.4	820.8	808.2	827.5	826.6
67.5°	11652.6	4371.0	622.4	598.2	632.5	708.7	788.2	781.4	774.8	808.2	806.6
70°	10351.6	3509.0	565.7	558.0	595.8	661.8	739.7	739.7	735.4	760.5	754.7
72.5°	7886.7	2488.3	511.2	515.4	553.9	610.8	686.9	692.9	686.0	698.6	693.6
75°	4221.9	1424.1	456.9	468.6	502.1	558.9	628.4	634.3	630.0	629.3	631.7
77.5°	1403.2	696.1	399.9	418.3	447.6	505.3	567.3	576.5	566.4	564.8	564.0
80°	625.0	437.6	337.1	361.5	387.3	444.3	502.8	510.3	499.5	514.5	495.3
82.5°	401.6	287.8	270.3	297.0	322.1	383.1	438.5	440.1	430.1	499.5	425.8
85°	194.9	178.3	203.3	227.6	249.3	301.2	363.2	364.0	338.9	308.7	297.9
87.5°	97.0	103.8	135.6	157.4	168.2	206.7	264.5	259.4	248.6	226.0	208.3
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)