

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: P269259

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269259
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-04-LED-E1-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16539.9 lumens
Efficiency: N/A
Efficacy: 96.7 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): 171
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

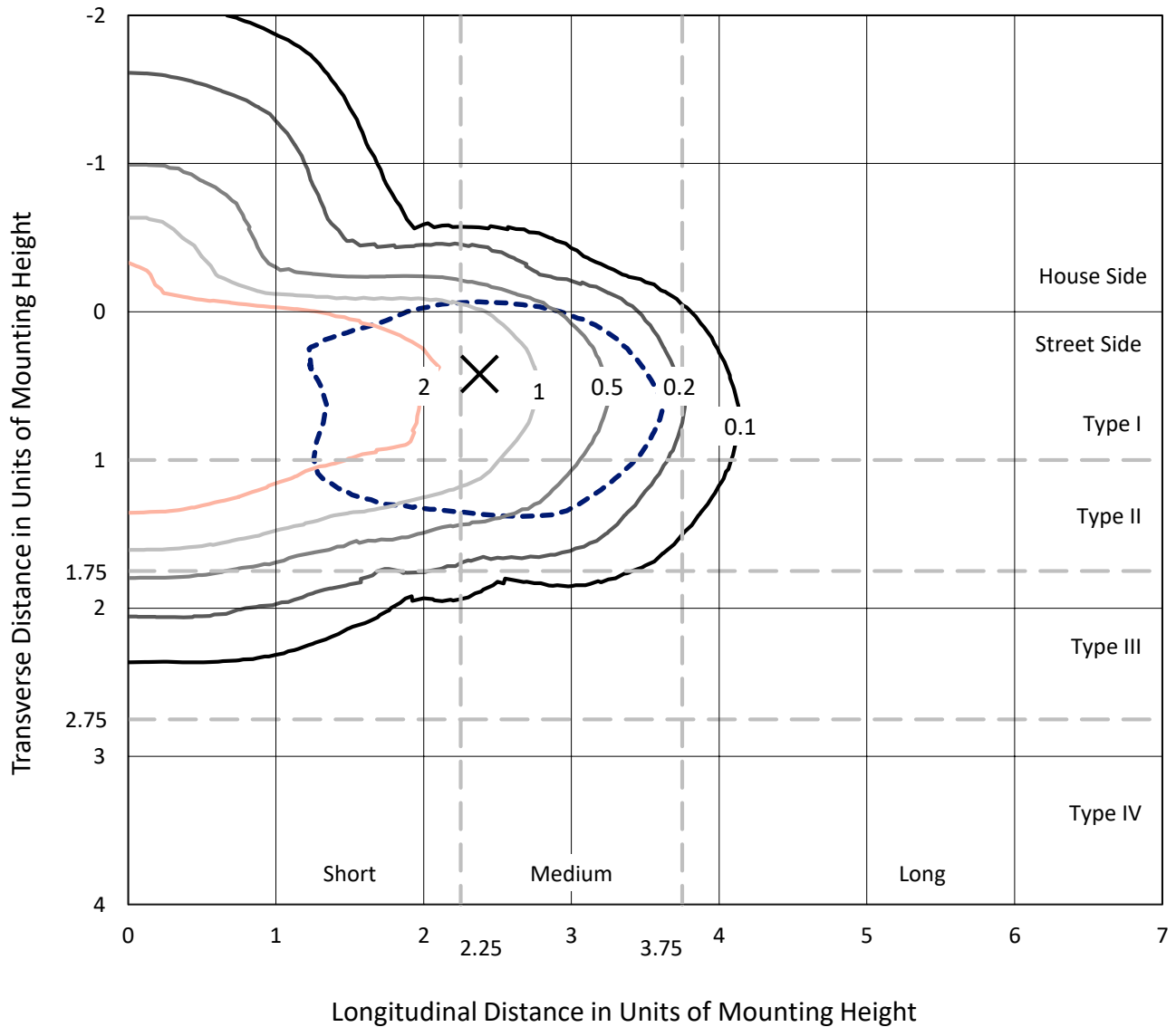


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

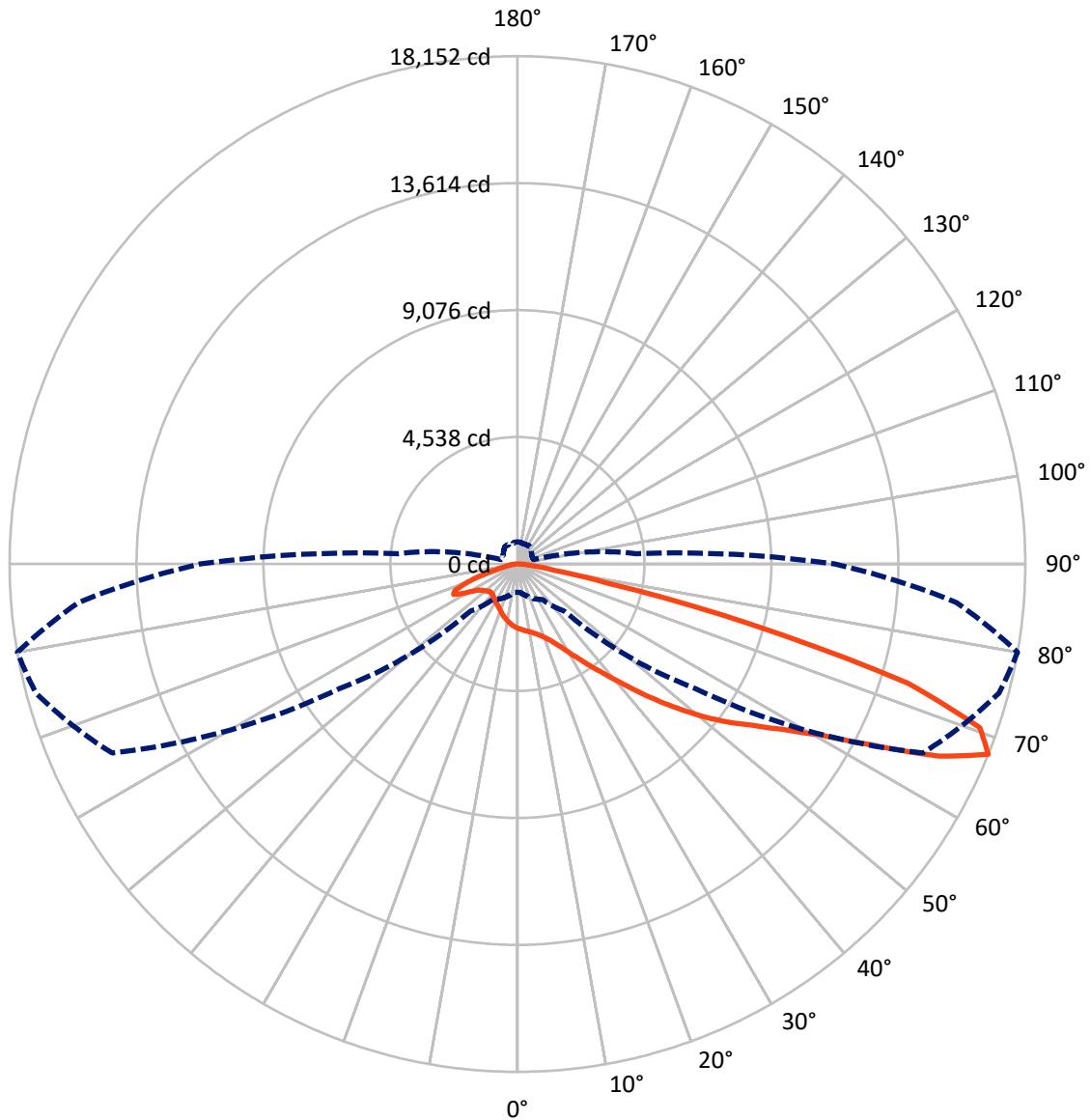


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	3046.0	0.0	3046.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13493.9	0.0	13493.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	16539.9	0.0	16539.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.3
10°-20°	610.6	3.7
20°-30°	1010.7	6.1
30°-40°	1653.3	10.0
40°-50°	2669.4	16.1
50°-60°	3853.8	23.3
60°-70°	4252.9	25.7
70°-80°	1960.3	11.9
80°-90°	317.1	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°	16539.9	100.0
0°-180°	16539.9	100.0



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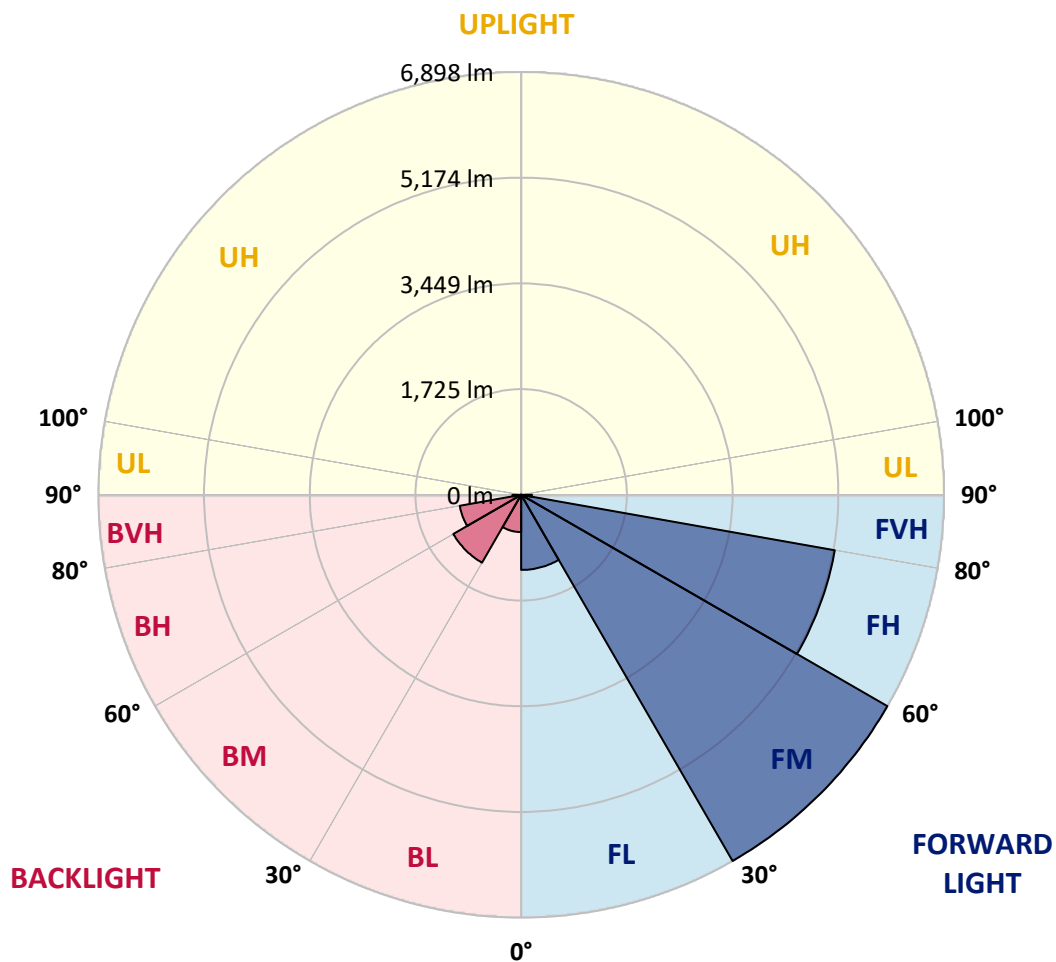
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.6	7.4			
FM	(30°-60°)	6898.4	41.7			
FH	(60°-80°)	5195.6	31.4			G3/7500
FVH	(80°-90°)	174.3	1.1			G2/225
BL	(0°-30°)	607.7	3.7	B2/1000		
BM	(30°-60°)	1278.0	7.7	B2/2500		
BH	(60°-80°)	1017.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	142.8	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°	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9
2.5°	2513.6	2499.1	2501.4	2497.4	2485.2	2464.1	2441.1	2399.6	2356.6	2333.6	2315.8
5°	2723.8	2719.7	2714.0	2700.9	2670.0	2626.0	2571.5	2498.1	2419.1	2377.6	2337.7
7.5°	2881.0	2878.4	2871.2	2863.0	2832.8	2780.0	2697.7	2593.4	2478.7	2421.7	2359.8
10°	2893.9	2898.0	2903.7	2925.7	2929.7	2901.3	2817.4	2691.1	2540.5	2467.3	2388.2
12.5°	2783.2	2792.1	2814.1	2870.4	2929.7	2964.8	2921.6	2793.8	2613.0	2524.2	2424.0
15°	2636.6	2641.5	2668.3	2745.7	2852.4	2960.8	3001.3	2906.9	2706.7	2597.4	2477.9
17.5°	2574.0	2576.3	2595.2	2646.3	2745.7	2900.4	3046.2	3030.0	2821.4	2688.7	2543.8
20°	2542.2	2547.9	2574.7	2625.1	2687.9	2823.1	3052.7	3162.7	2958.3	2802.7	2626.9
22.5°	2632.6	2630.1	2639.8	2665.1	2718.0	2799.5	3047.8	3299.5	3132.5	2949.2	2735.1
25°	2843.4	2852.4	2835.3	2806.8	2823.9	2881.0	3073.9	3447.7	3350.8	3137.4	2876.8
27.5°	3143.9	3134.9	3109.8	3042.9	3008.0	3032.4	3160.1	3607.2	3621.8	3385.0	3064.1
30°	3443.6	3436.2	3411.9	3330.3	3258.7	3238.4	3328.0	3790.5	3945.1	3682.2	3293.7
32.5°	3754.6	3746.6	3723.7	3642.3	3555.9	3508.7	3566.5	4002.2	4326.2	4037.2	3564.0
35°	4138.1	4122.6	4074.6	3961.4	3876.7	3840.2	3866.9	4268.4	4766.0	4457.3	3892.3
37.5°	4498.8	4522.4	4473.6	4317.3	4207.3	4194.4	4224.5	4593.4	5239.9	4927.2	4269.3
40°	4861.2	4865.3	4821.4	4693.5	4580.3	4559.1	4634.9	4987.4	5799.3	5489.1	4727.7
42.5°	5235.9	5243.9	5169.8	5051.8	4968.6	4972.7	5059.1	5449.1	6440.8	6151.1	5255.4
45°	5679.5	5691.8	5610.4	5455.6	5379.9	5532.1	5496.3	5967.0	7144.4	6903.5	5861.1
47.5°	6143.7	6162.5	6100.5	5955.7	5861.1	6070.3	5933.7	6541.1	7901.8	7710.3	6526.4
50°	6396.9	6423.8	6484.1	6473.5	6453.2	6418.1	6421.4	7156.6	8682.6	8550.6	7210.3
52.5°	6260.9	6260.1	6480.0	6747.1	7032.0	7053.2	7015.8	7805.6	9412.3	9372.2	7854.5
55°	5638.8	5681.2	6014.2	6531.2	7309.7	7795.9	7906.6	8549.0	10128.7	10175.1	8508.3
57.5°	4603.1	4638.0	5087.6	5808.3	6935.2	8237.2	9173.6	9629.7	10929.9	11146.6	9378.8
60°	3121.9	3164.3	3640.7	4506.2	5927.0	7991.2	10379.6	11557.9	11889.2	12381.8	10600.2
62.5°	1834.6	1872.8	2261.3	2842.6	4173.2	6848.9	10908.7	14301.0	13412.8	14245.7	12463.3
65°	1262.9	1289.0	1477.9	1769.4	2398.0	4612.8	10252.4	16195.1	15757.0	16555.0	14623.5
67.5°	1016.3	1013.0	1162.8	1361.6	1543.8	2378.5	7752.7	15980.8	17818.7	18151.7	15744.8
70°	837.1	833.7	935.7	1100.1	1233.6	1339.6	4222.8	13486.0	17398.6	17533.7	14712.4
72.5°	700.3	703.6	768.7	890.8	1012.1	1008.8	1855.7	9487.1	13687.1	14621.9	11727.9
75°	591.2	592.8	635.9	722.2	821.6	812.6	1006.5	5139.7	7956.3	8606.9	6501.2
77.5°	503.2	504.8	532.5	580.6	651.5	648.1	734.5	2220.5	3319.0	3278.3	2223.8
80°	448.7	448.7	461.6	470.6	509.8	495.1	544.7	1066.6	1403.1	1295.5	887.5
82.5°	351.7	353.5	433.3	429.8	401.5	382.7	382.7	628.6	743.4	687.3	519.5
85°	197.8	197.1	279.4	337.1	353.5	269.5	267.1	351.7	404.6	356.6	251.6
87.5°	84.7	86.2	129.4	149.8	200.3	167.8	165.3	181.5	206.0	178.4	116.4
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°	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9	2297.9
2.5°	2298.8	2277.6	2231.1	2173.3	2121.2	2087.0	2056.0	2011.2	2013.7	1982.7	1959.9
5°	2297.1	2253.0	2145.6	2017.8	1894.9	1806.0	1739.3	1679.0	1664.4	1635.9	1618.7
7.5°	2298.8	2227.1	2046.2	1841.9	1689.6	1577.2	1520.2	1488.5	1481.1	1471.5	1472.2
10°	2304.4	2203.5	1937.1	1677.5	1517.7	1443.7	1429.8	1439.7	1451.0	1454.3	1455.2
12.5°	2317.4	2182.3	1817.5	1530.8	1410.2	1387.5	1411.1	1444.6	1466.6	1477.2	1476.3
15°	2346.7	2166.0	1702.6	1416.0	1351.0	1363.1	1407.0	1454.3	1486.1	1500.7	1501.4
17.5°	2378.5	2142.4	1584.6	1328.1	1306.9	1337.8	1392.5	1447.8	1486.9	1503.1	1506.4
20°	2420.0	2113.1	1460.9	1262.1	1265.4	1300.3	1351.7	1407.0	1450.3	1464.1	1470.5
22.5°	2474.7	2081.3	1352.5	1208.4	1218.1	1245.1	1284.9	1332.9	1370.5	1376.9	1382.6
25°	2547.9	2047.1	1266.3	1159.5	1163.6	1179.0	1206.0	1234.5	1260.5	1253.1	1258.9
27.5°	2646.3	2017.8	1201.8	1114.7	1107.4	1110.7	1124.5	1133.5	1147.3	1127.0	1129.3
30°	2762.0	1986.1	1152.2	1075.6	1055.2	1049.6	1052.9	1057.8	1068.4	1040.6	1036.6
32.5°	2896.3	1947.7	1105.8	1041.5	1013.0	1001.6	1003.1	1016.3	1056.9	1039.8	1030.8
35°	3052.7	1904.5	1056.9	1003.9	984.5	968.2	966.5	1007.3	1128.6	1118.0	1109.9
37.5°	3236.0	1861.4	1008.1	961.6	963.3	945.3	939.6	986.1	1142.5	1101.0	1095.3
40°	3468.7	1838.7	966.5	916.9	937.2	934.7	923.4	947.1	1051.2	975.5	965.7
42.5°	3757.0	1841.9	935.7	868.8	906.3	932.4	914.5	915.3	952.7	895.7	886.7
45°	4112.9	1880.2	913.7	830.6	871.3	929.8	911.2	898.1	901.4	871.3	866.3
47.5°	4528.1	1959.2	898.1	798.9	837.8	920.9	910.3	893.3	885.9	869.6	865.5
50°	4989.8	2073.9	886.7	768.7	807.8	906.3	911.2	888.3	880.2	873.7	871.3
52.5°	5443.4	2205.1	869.6	742.5	784.1	888.3	913.7	883.6	874.5	869.6	867.3
55°	5949.0	2368.7	843.6	720.6	764.5	865.5	913.7	876.1	866.3	867.3	866.3
57.5°	6632.2	2633.3	812.6	701.8	741.0	837.8	898.1	868.0	855.7	856.7	857.4
60°	7699.7	3100.0	775.1	683.3	711.6	805.3	876.9	850.1	837.8	841.2	841.9
62.5°	9269.7	3784.6	726.3	655.6	680.7	770.2	847.7	827.2	815.1	823.2	823.2
65°	10901.6	4388.8	666.1	620.5	648.1	731.9	811.0	798.9	786.6	805.3	804.5
67.5°	11340.4	4253.7	605.7	582.2	615.6	689.7	767.1	760.5	753.9	786.6	784.9
70°	10074.2	3415.0	550.4	543.1	579.8	644.1	719.8	719.8	715.8	740.2	734.5
72.5°	7675.3	2421.7	497.5	501.7	539.1	594.4	668.5	674.2	667.7	679.8	675.0
75°	4108.8	1385.8	444.7	456.0	488.6	544.0	611.6	617.2	613.2	612.4	614.8
77.5°	1365.6	677.5	389.2	407.1	435.7	491.8	552.1	561.0	551.3	549.7	548.9
80°	608.2	425.8	328.2	351.7	377.0	432.4	489.3	496.8	486.2	500.7	482.0
82.5°	390.9	280.1	263.1	289.1	313.5	372.9	426.6	428.3	418.5	486.2	414.5
85°	189.7	173.5	197.8	221.5	242.6	293.1	353.5	354.2	329.8	300.5	290.0
87.5°	94.4	101.0	132.0	153.2	163.8	201.1	257.4	252.5	241.9	219.8	202.7
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)