

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: P193783

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193783
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-05-LED-E1-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 18637 lumens
Efficiency: N/A
Efficacy: 88.7 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

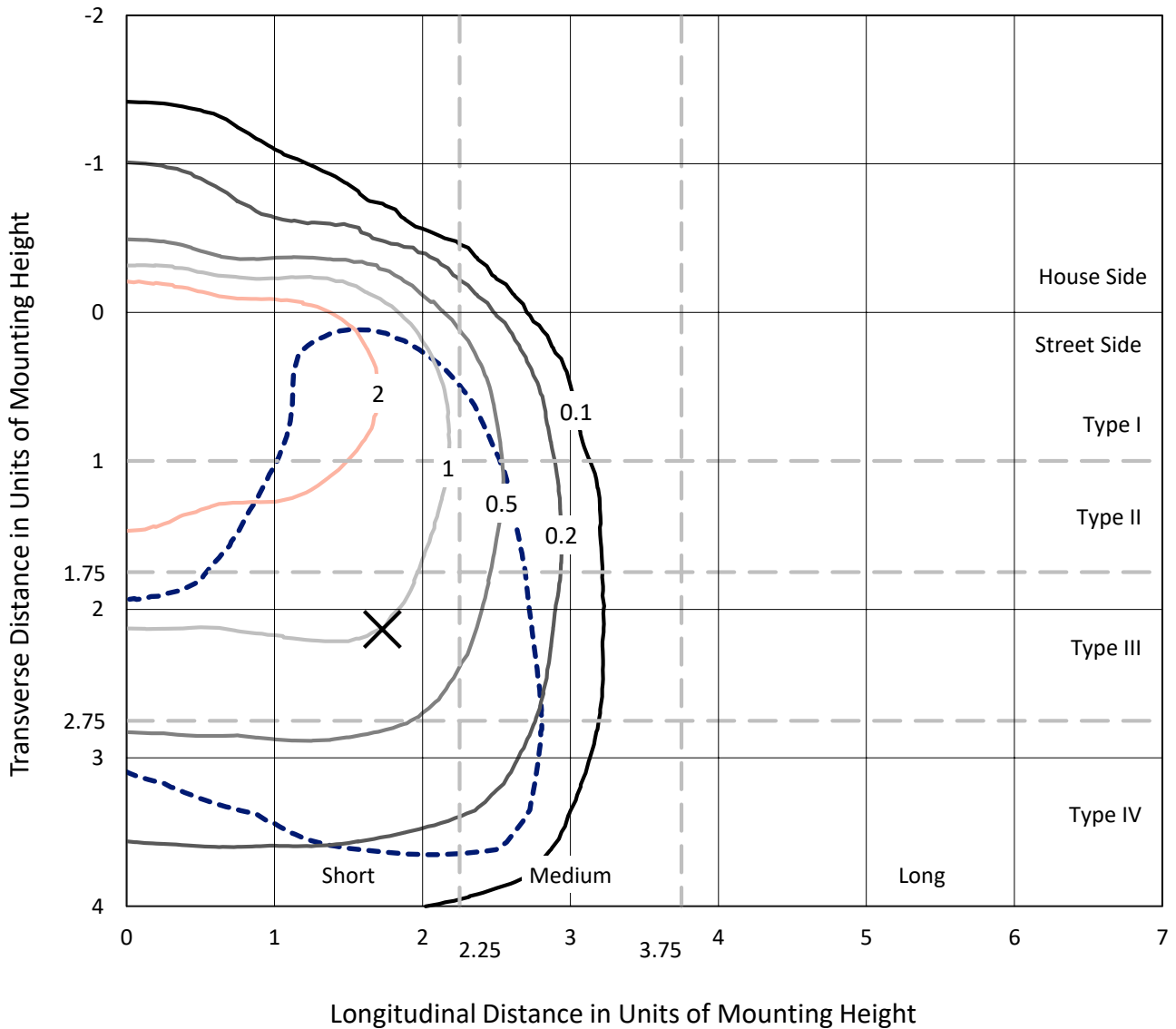
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

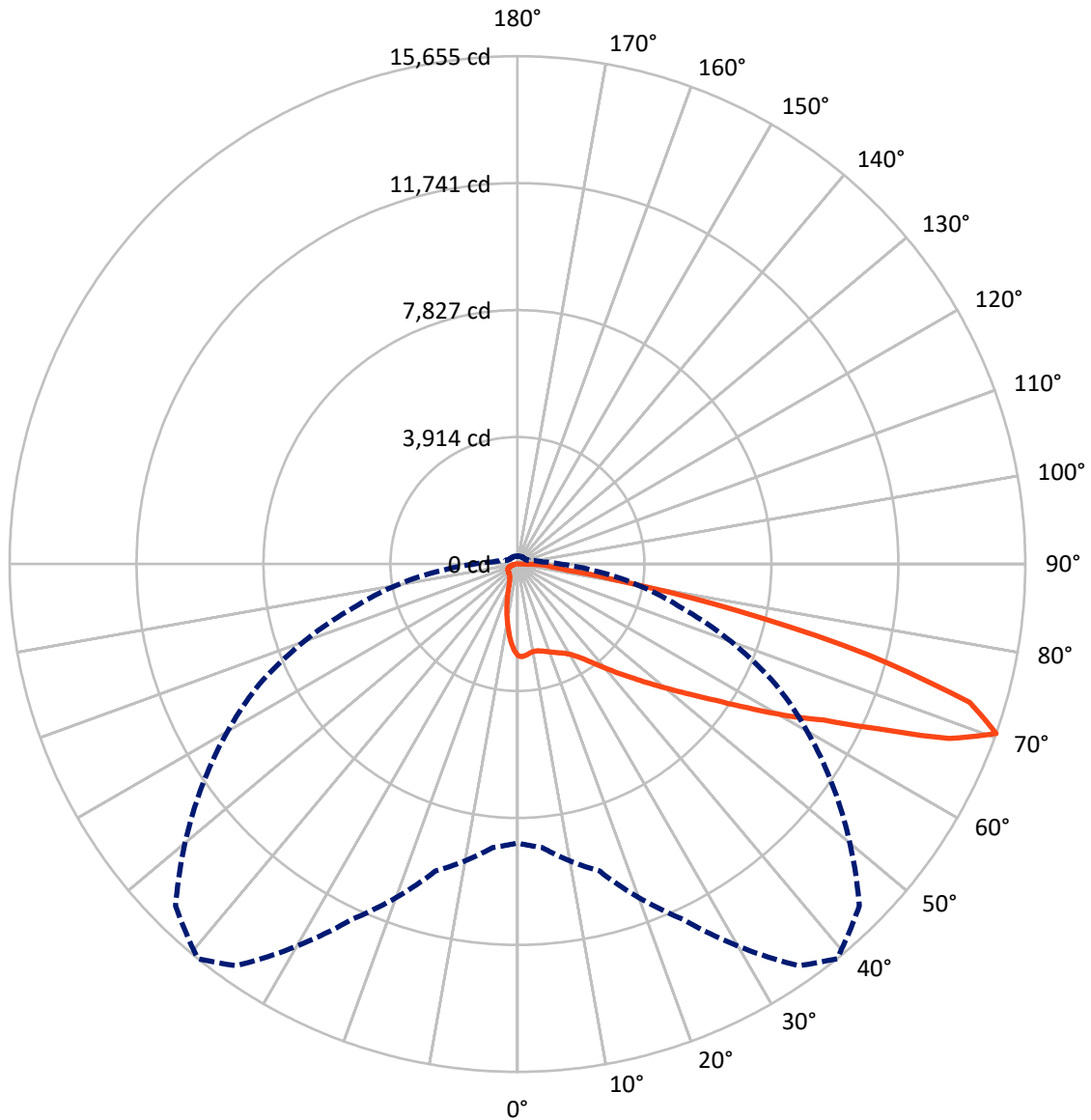
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type 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	2119.7	0.0	2119.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16517.3	0.0	16517.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	18637.0	0.0	18637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	1.3
10°-20°	606.9	3.3
20°-30°	945.0	5.1
30°-40°	1472.2	7.9
40°-50°	2471.6	13.3
50°-60°	3926.3	21.1
60°-70°	5237.2	28.1
70°-80°	3162.6	17.0
80°-90°	572.4	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°	18637.0	100.0
0°-180°	18637.0	100.0



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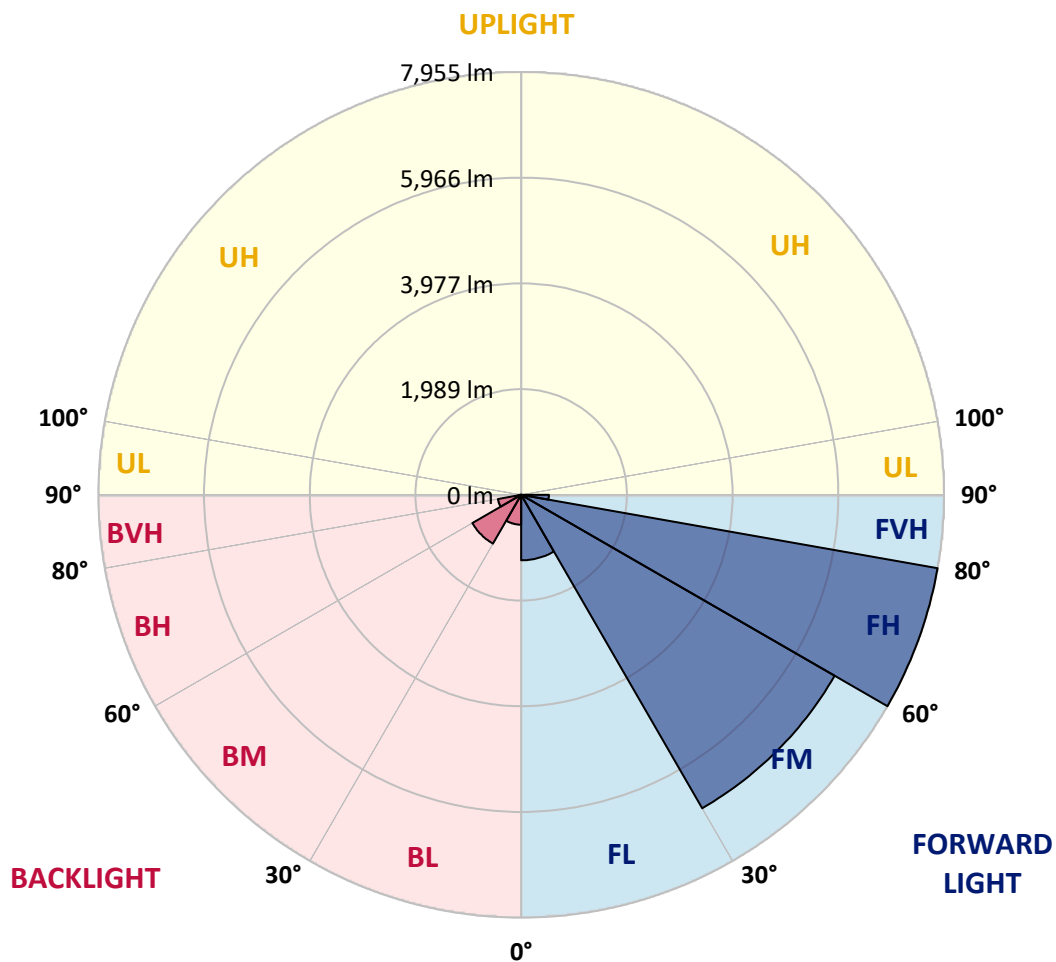
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.5	6.6			
FM (30°-60°)	6809.2	36.5			
FH (60°-80°)	7954.8	42.7			G4/12000
FVH (80°-90°)	520.8	2.8			G4/750
BL (0°-30°)	562.3	3.0	B2/1000		
BM (30°-60°)	1060.8	5.7	B2/2500		
BH (60°-80°)	445.0	2.4	B1/500		G1/500
BVH (80°-90°)	51.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2884.3	2883.4	2875.8	2870.1	2865.4	2863.5	2867.3	2853.1	2840.8	2825.6	2809.5
5°	2862.5	2861.6	2849.3	2837.9	2826.5	2822.8	2821.8	2796.2	2781.1	2758.3	2728.0
7.5°	2838.9	2834.1	2818.0	2799.1	2779.2	2769.7	2760.2	2727.1	2710.0	2687.3	2652.2
10°	2814.2	2808.5	2793.4	2774.4	2755.5	2741.3	2725.2	2692.9	2674.9	2657.9	2617.1
12.5°	2788.6	2783.9	2780.1	2771.6	2758.3	2746.0	2733.7	2706.2	2687.3	2667.4	2620.0
15°	2784.9	2783.0	2791.5	2797.2	2789.6	2782.0	2768.7	2745.1	2725.2	2705.3	2643.7
17.5°	2815.2	2814.2	2836.0	2851.2	2847.4	2834.1	2816.1	2789.6	2773.5	2756.4	2679.7
20°	2881.5	2886.2	2912.8	2932.7	2913.7	2894.8	2865.4	2828.4	2819.9	2812.3	2716.6
22.5°	3006.6	3011.3	3030.3	3037.8	2988.6	2961.1	2920.4	2873.0	2867.3	2873.0	2761.2
25°	3201.8	3197.0	3194.2	3165.8	3075.7	3033.1	2981.0	2931.7	2934.6	2960.1	2823.7
27.5°	3460.5	3434.9	3395.1	3309.8	3166.7	3119.3	3055.9	3010.4	3028.4	3077.6	2917.5
30°	3728.6	3700.2	3608.3	3469.0	3286.1	3234.0	3162.9	3111.8	3159.1	3236.8	3042.6
32.5°	3976.9	3973.1	3838.5	3659.4	3451.0	3405.5	3334.4	3276.6	3353.4	3471.8	3230.2
35°	4247.9	4256.4	4095.3	3880.2	3673.7	3626.3	3575.1	3531.5	3633.9	3796.8	3502.1
37.5°	4537.8	4554.9	4364.4	4121.8	3927.6	3907.7	3877.4	3858.4	4016.7	4242.2	3882.1
40°	4925.4	4908.3	4643.9	4394.7	4239.3	4238.4	4228.9	4251.7	4515.1	4824.0	4370.1
42.5°	5340.4	5290.2	4940.5	4687.5	4581.4	4613.6	4632.6	4725.4	5114.9	5530.9	4965.2
45°	5787.6	5674.9	5248.5	4997.4	4961.4	5029.6	5094.0	5295.9	5820.8	6335.3	5617.1
47.5°	6144.9	6035.9	5566.9	5322.4	5401.0	5504.3	5628.4	5947.8	6611.1	7166.3	6260.5
50°	6426.3	6355.2	5888.1	5701.4	5885.2	6044.4	6247.2	6685.9	7433.5	7975.5	6856.5
52.5°	6699.2	6646.1	6212.1	6089.9	6453.8	6673.6	6949.3	7478.1	8276.9	8771.5	7357.7
55°	6945.5	6907.6	6560.8	6574.1	7122.7	7408.9	7755.7	8380.1	9196.0	9481.2	7782.2
57.5°	7223.2	7174.9	6958.8	7181.5	7982.2	8353.6	8804.6	9394.0	10058.2	10112.3	8105.3
60°	7502.7	7461.0	7400.4	7882.7	9073.7	9464.1	9891.5	10376.6	10932.8	10602.1	8086.4
62.5°	7745.3	7750.0	7857.1	8618.9	10142.6	10594.6	11115.7	11595.2	11724.0	10687.4	7488.5
65°	8156.5	8231.4	8550.7	9661.2	11647.3	12251.8	12891.4	12814.7	11942.9	9890.5	6206.5
67.5°	8645.4	8777.2	9424.3	11050.3	13549.0	14351.6	14598.9	13090.4	11066.4	8040.0	4424.1
70°	8596.2	8777.2	9801.5	12086.0	15116.3	15654.5	14904.0	11847.2	8787.6	5252.3	2349.9
72.5°	7633.5	7892.1	9033.0	11611.3	14622.6	14575.2	12938.8	8832.1	5221.0	2109.2	918.2
75°	5818.0	6079.5	7061.1	9173.2	11557.3	11159.3	9180.8	4878.9	1981.3	837.6	579.0
77.5°	3346.7	3549.5	4307.6	5625.6	7332.1	6923.8	5110.1	2169.9	964.6	583.7	452.0
80°	1868.6	1981.3	2441.8	2854.0	3593.1	3293.7	2286.4	1348.4	720.1	423.6	348.7
82.5°	1477.2	1577.7	1974.7	1800.3	1641.2	1514.2	1313.3	1200.5	575.2	267.2	208.5
85°	1290.6	1386.3	1671.5	1417.5	1121.0	1028.1	1066.9	1181.6	447.2	161.1	178.1
87.5°	1195.8	1323.7	1489.5	1092.5	872.7	773.2	984.5	1295.3	144.0	100.4	72.0
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°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2795.3	2780.1	2755.5	2733.7	2699.6	2681.6	2661.7	2647.5	2636.1	2626.6	2641.8
5°	2709.0	2680.6	2628.5	2572.6	2506.3	2454.2	2410.6	2369.8	2341.4	2322.4	2335.7
7.5°	2627.6	2581.1	2499.6	2398.3	2284.5	2187.9	2108.3	2038.2	1989.9	1958.6	1970.9
10°	2581.1	2523.3	2397.3	2238.1	2070.4	1919.7	1794.7	1686.6	1611.8	1569.1	1575.8
12.5°	2569.8	2494.9	2320.6	2101.7	1872.4	1663.0	1486.7	1337.0	1231.8	1176.9	1178.8
15°	2578.3	2482.6	2248.5	1970.9	1681.0	1416.6	1196.8	1014.8	892.6	830.1	829.1
17.5°	2592.5	2473.1	2172.7	1829.7	1486.7	1179.7	934.3	756.1	648.1	597.9	594.1
20°	2607.7	2457.9	2087.5	1677.2	1284.9	959.9	731.5	592.2	524.0	496.5	494.6
22.5°	2629.5	2444.7	1999.3	1516.1	1086.8	781.7	601.7	507.9	471.9	457.7	455.8
25°	2664.5	2438.0	1905.5	1348.4	908.7	653.8	524.0	466.2	445.3	435.9	434.9
27.5°	2723.3	2447.5	1817.4	1185.4	763.7	567.6	480.4	445.3	430.2	421.7	420.7
30°	2799.1	2476.9	1724.5	1030.9	651.0	508.8	453.9	431.1	418.8	410.3	410.3
32.5°	2925.1	2526.2	1626.9	897.3	570.4	468.1	434.0	418.8	408.4	401.8	400.8
35°	3110.8	2619.0	1536.0	786.5	512.6	438.7	416.9	405.6	398.0	394.2	394.2
37.5°	3380.9	2765.9	1455.4	706.9	477.6	418.8	400.8	392.3	387.5	387.5	387.5
40°	3743.8	2968.7	1390.1	653.8	457.7	404.6	388.5	381.9	379.0	380.0	380.0
42.5°	4192.0	3232.1	1346.5	616.9	448.2	396.1	380.0	374.3	371.4	370.5	371.4
45°	4702.7	3531.5	1341.7	589.4	438.7	390.4	374.3	368.6	362.9	359.1	359.1
47.5°	5199.2	3835.7	1380.6	579.9	428.3	383.8	369.5	363.9	355.3	346.8	346.8
50°	5637.9	4094.4	1432.7	583.7	424.5	374.3	362.0	359.1	345.9	336.4	335.4
52.5°	5986.6	4293.4	1475.3	595.1	428.3	367.6	352.5	353.4	339.2	328.8	327.9
55°	6266.2	4424.1	1464.0	606.4	436.8	363.9	344.0	345.9	334.5	324.1	324.1
57.5°	6388.4	4375.8	1337.9	597.0	443.5	364.8	337.3	344.9	335.4	326.0	326.0
60°	6125.9	3946.5	1102.0	555.3	434.9	362.0	334.5	348.7	347.8	338.3	337.3
62.5°	5331.9	3178.1	854.7	493.7	405.6	347.8	326.9	347.8	358.2	355.3	354.4
65°	4109.5	2263.7	652.9	427.3	365.8	324.1	307.0	326.0	340.2	344.0	343.0
67.5°	2667.4	1387.2	503.1	364.8	321.2	296.6	281.4	290.0	292.8	292.8	290.9
70°	1311.4	746.7	400.8	307.0	275.7	267.2	258.7	253.9	249.2	245.4	245.4
72.5°	647.2	488.0	329.7	259.6	237.8	234.0	232.1	226.5	222.7	217.9	216.0
75°	478.5	397.0	280.5	218.9	204.7	200.9	204.7	199.9	199.0	195.2	193.3
77.5°	393.2	338.3	241.6	187.6	175.3	168.7	174.3	175.3	176.2	170.6	168.7
80°	319.3	286.2	201.8	155.4	144.0	139.3	143.1	150.7	152.6	144.0	140.2
82.5°	230.3	234.0	163.0	121.3	111.8	108.0	115.6	125.1	127.0	114.7	111.8
85°	193.3	195.2	125.1	86.2	76.8	71.1	83.4	92.9	99.5	87.2	84.3
87.5°	80.5	114.7	72.0	48.3	42.6	37.0	44.5	49.3	59.7	55.0	54.0
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)