

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: P191091

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18211.6 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 166
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

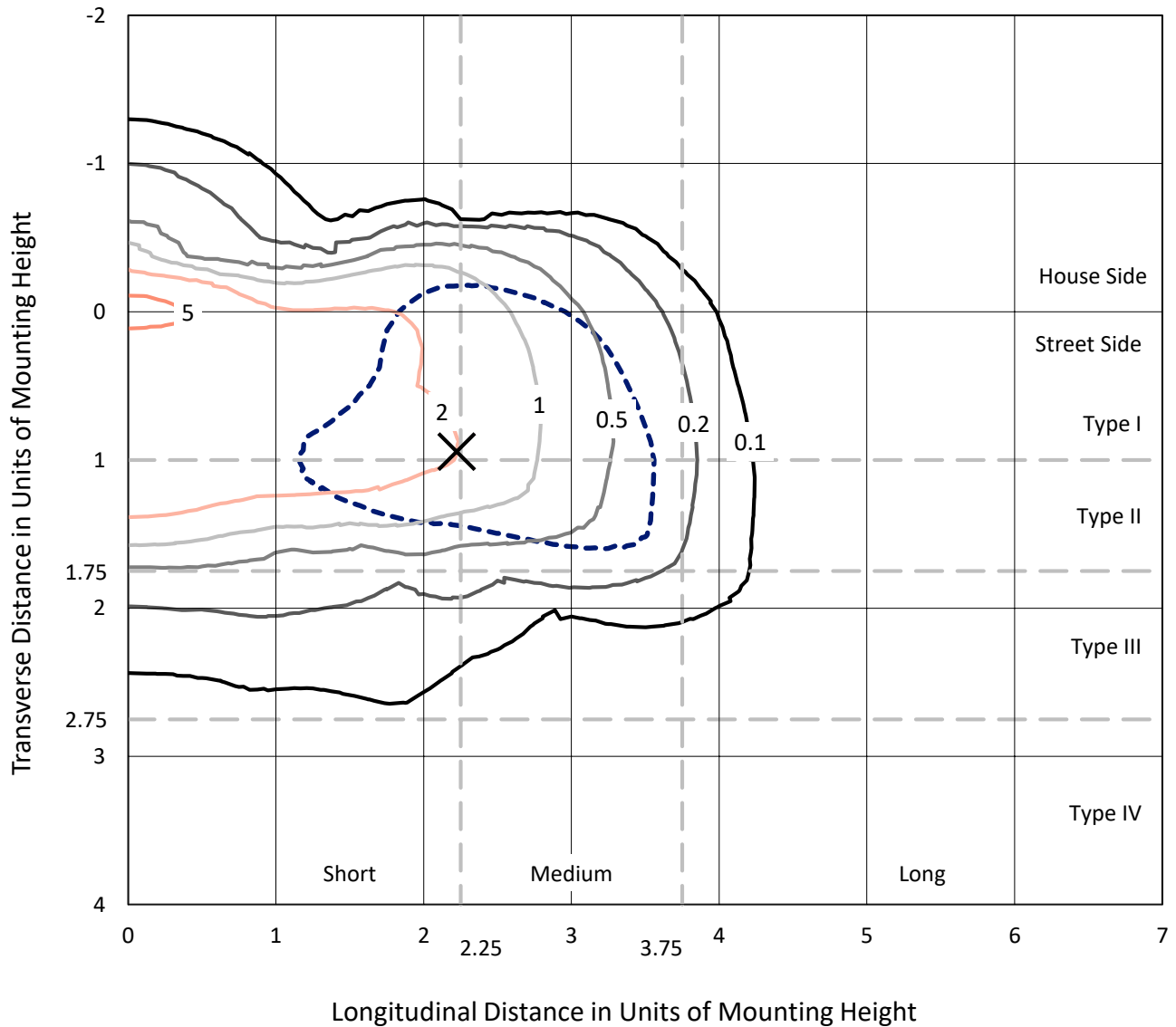


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Iso-Footcandle Lines of Horizontal Illumination

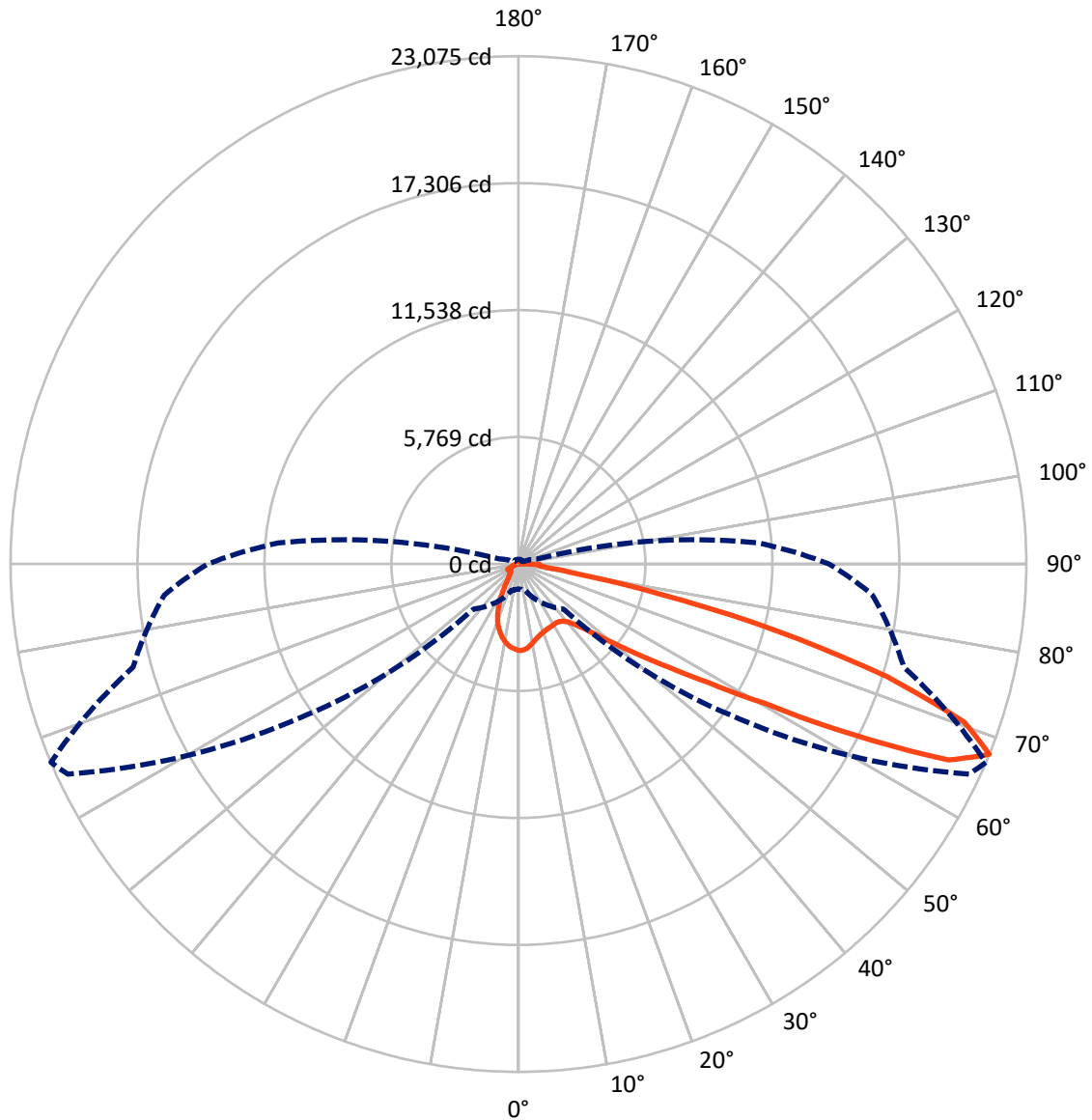
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3017.5	0.0	3017.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15194.1	0.0	15194.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	18211.6	0.0	18211.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	1.8
10°-20°	775.4	4.3
20°-30°	1051.1	5.8
30°-40°	1494.3	8.2
40°-50°	2500.0	13.7
50°-60°	3955.0	21.7
60°-70°	5038.3	27.7
70°-80°	2639.0	14.5
80°-90°	423.3	2.3
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°	18211.6	100.0
0°-180°	18211.6	100.0

Coefficient of Utilization



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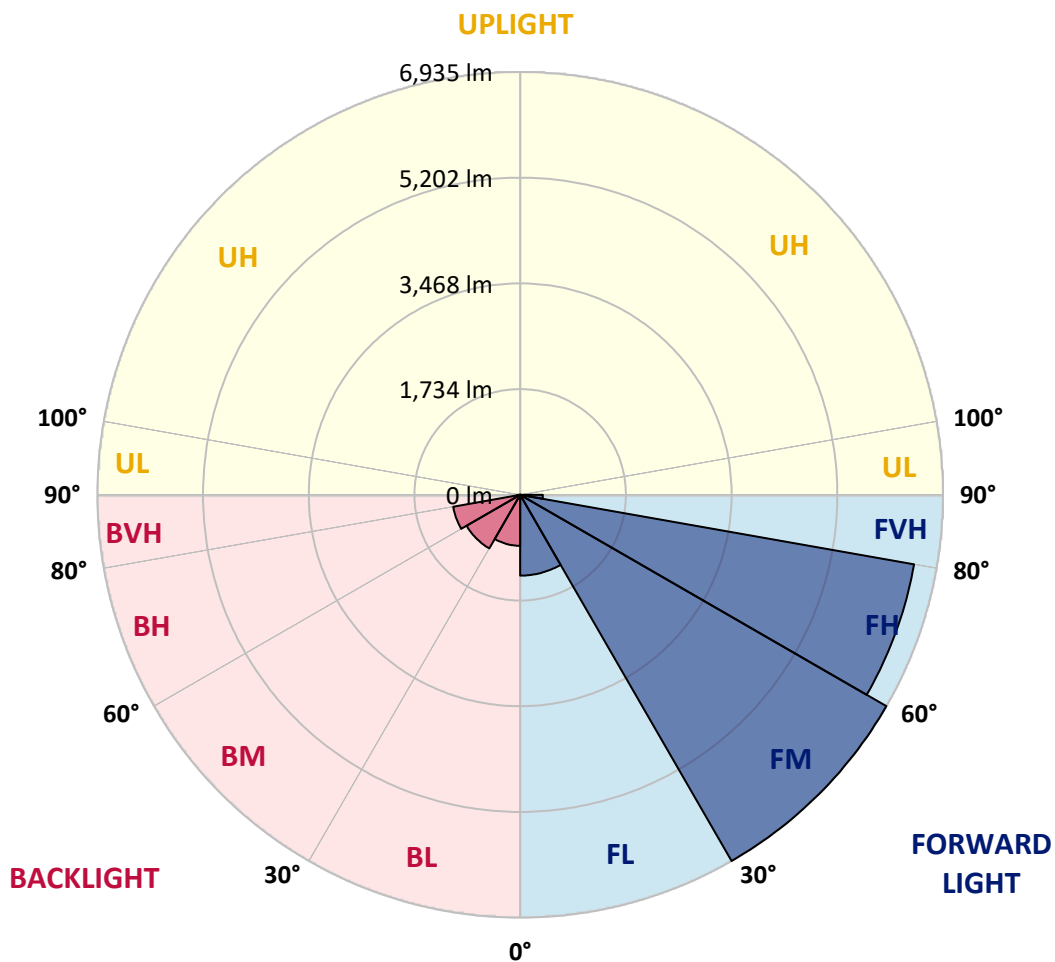
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.4	7.3			
FM	(30°-60°)	6935.4	38.1			
FH	(60°-80°)	6561.3	36.0			G3/7500
FVH	(80°-90°)	372.2	2.0			G3/500
BL	(0°-30°)	836.4	4.6	B2/1000		
BM	(30°-60°)	1014.0	5.6	B2/2500		
BH	(60°-80°)	1116.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	51.1	0.3			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	3766.5	3772.8	3792.6	3805.2	3861.7	3886.0	3903.1	3920.2	3922.8	3930.9	3922.8
5°	3371.3	3384.8	3421.7	3463.0	3572.6	3658.8	3749.5	3843.7	3860.8	3921.9	3939.0
7.5°	3065.2	3061.6	3092.1	3141.5	3253.7	3373.2	3532.1	3719.9	3756.7	3894.1	3960.6
10°	2841.6	2838.8	2871.1	2922.4	3029.3	3142.4	3322.0	3578.8	3631.0	3850.1	3981.2
12.5°	2676.2	2677.2	2709.5	2766.1	2874.8	2988.8	3171.1	3442.3	3508.8	3798.8	4002.7
15°	2566.7	2573.8	2599.9	2660.1	2766.1	2880.1	3058.8	3339.9	3414.5	3758.4	4026.9
17.5°	2529.9	2541.5	2550.5	2594.5	2685.2	2799.3	2974.4	3264.5	3343.5	3730.6	4048.5
20°	2564.0	2577.5	2560.4	2575.7	2633.2	2733.7	2907.9	3205.2	3286.0	3699.2	4051.2
22.5°	2710.4	2723.0	2672.7	2628.7	2625.1	2686.2	2853.2	3158.6	3242.0	3675.9	4052.1
25°	2968.2	2976.3	2891.8	2789.4	2689.7	2669.1	2814.5	3126.2	3215.1	3655.2	4035.0
27.5°	3284.3	3290.5	3193.6	3042.7	2842.4	2709.5	2801.1	3107.3	3199.9	3637.2	4006.3
30°	3668.6	3698.3	3568.1	3377.7	3085.8	2829.0	2828.0	3097.5	3182.8	3606.7	3949.7
32.5°	4062.0	4074.6	3984.8	3791.7	3413.6	3039.1	2903.4	3104.7	3178.3	3569.9	3877.9
35°	4460.8	4476.9	4418.5	4263.1	3861.7	3347.1	3050.7	3146.9	3206.1	3557.3	3827.6
37.5°	4977.2	4998.8	4917.8	4738.3	4406.9	3764.8	3295.9	3252.9	3291.4	3593.2	3812.3
40°	5793.5	5783.7	5547.5	5279.8	5003.2	4299.1	3646.2	3432.4	3454.9	3709.0	3859.1
42.5°	6743.7	6719.5	6312.6	5892.3	5658.8	4945.8	4109.6	3744.1	3739.6	3937.1	4023.4
45°	7501.6	7481.9	7115.4	6597.3	6410.5	5682.2	4708.6	4208.4	4175.2	4299.1	4327.0
47.5°	7912.1	7912.9	7701.9	7278.9	7274.4	6618.0	5478.3	4880.2	4822.7	4881.0	4851.4
50°	7768.4	7787.2	7764.8	7630.1	8063.0	7844.7	6483.3	5816.8	5701.0	5758.5	5644.4
52.5°	7073.3	7097.5	7230.4	7437.0	8394.3	9327.5	7959.7	6980.7	6846.1	6825.4	6698.8
55°	5841.2	5870.7	6142.0	6703.3	8118.6	10323.4	10289.2	8464.4	8249.8	8054.8	8001.0
57.5°	4026.1	4075.4	4511.9	5345.3	7226.8	10624.3	13063.5	10579.4	10142.9	9462.2	9474.8
60°	2269.4	2326.9	2841.6	3598.6	5427.1	10297.3	15173.9	13782.8	12861.4	11110.2	11203.6
62.5°	1443.2	1505.2	1895.8	2500.3	3256.5	8537.1	16038.7	18236.3	17066.2	13141.5	13233.2
65°	1168.4	1195.3	1379.4	2063.8	2364.7	5143.3	15382.3	21905.1	21468.6	15720.0	15292.5
67.5°	1140.6	1149.5	1244.7	1732.4	2267.7	2891.0	12269.6	22591.2	23075.2	18127.7	16150.1
70°	1127.1	1158.5	1402.8	1653.4	2171.5	2438.3	7373.2	20710.6	21474.8	18757.2	15008.7
72.5°	547.0	545.1	705.9	1495.3	2446.4	2528.9	3788.1	16757.3	17524.2	16250.7	12333.3
75°	441.0	403.2	385.2	547.8	2352.1	2611.6	2414.1	11530.4	12085.4	10895.4	7581.6
77.5°	418.5	373.6	342.2	343.1	994.2	2769.6	2044.9	6381.8	6543.4	4921.5	2077.3
80°	346.7	305.4	282.8	318.9	481.4	2637.7	2211.1	2888.2	2650.3	1208.8	691.5
82.5°	240.7	219.1	212.9	267.6	385.2	1879.7	2571.2	1551.9	1301.3	605.3	426.6
85°	153.5	131.1	145.5	194.9	299.9	867.6	2648.4	1209.7	961.9	384.4	240.7
87.5°	71.0	57.5	71.8	107.8	195.8	299.1	2520.0	1358.8	990.6	203.0	151.8
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°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	3930.0	3912.9	3899.5	3874.3	3846.5	3819.5	3795.2	3764.8	3755.8	3747.7	3760.3
5°	3942.6	3925.5	3876.1	3798.8	3713.5	3633.6	3553.7	3485.4	3443.3	3419.9	3433.3
7.5°	3961.4	3937.1	3834.8	3692.9	3539.3	3399.3	3254.6	3138.8	3053.5	3013.1	3024.8
10°	3978.5	3931.8	3764.8	3551.9	3327.4	3119.0	2891.0	2702.3	2562.2	2488.5	2506.5
12.5°	3985.7	3911.2	3666.9	3375.8	3067.8	2762.5	2426.6	2144.6	1943.4	1869.7	1854.5
15°	3992.9	3887.8	3559.1	3175.6	2754.4	2322.4	1851.8	1514.2	1347.1	1310.3	1302.2
17.5°	3994.6	3847.3	3436.9	2958.3	2387.1	1798.9	1266.3	1051.7	1052.5	1111.8	1119.0
20°	3975.8	3787.2	3288.8	2687.9	1947.1	1243.8	869.3	832.5	968.1	1116.3	1134.2
22.5°	3932.7	3707.3	3120.8	2372.7	1443.2	819.1	672.7	713.1	888.2	1069.6	1090.3
25°	3877.9	3610.3	2922.4	2007.2	955.5	585.5	564.0	613.4	731.9	853.1	864.8
27.5°	3803.3	3495.3	2699.7	1588.7	620.5	482.2	496.6	529.9	578.4	632.3	637.6
30°	3707.3	3357.9	2461.6	1158.5	468.8	433.7	454.4	472.4	493.1	523.5	526.3
32.5°	3596.8	3225.9	2217.3	800.2	415.8	408.7	424.8	433.7	449.9	468.8	470.6
35°	3504.3	3100.2	1964.1	565.8	393.3	389.7	400.6	404.2	419.4	440.1	441.8
37.5°	3451.3	2997.8	1702.8	456.2	378.1	372.7	379.0	379.0	400.6	431.1	435.6
40°	3454.9	2941.2	1441.4	412.2	365.5	358.3	359.3	359.3	387.1	420.3	423.0
42.5°	3552.8	2955.6	1209.7	395.2	355.7	347.6	343.1	345.8	369.1	390.7	392.5
45°	3782.7	3057.1	992.4	384.4	345.8	343.1	333.2	332.3	341.3	351.2	351.2
47.5°	4159.9	3257.4	845.1	377.2	337.7	336.8	325.1	313.4	312.5	316.1	316.1
50°	4773.3	3602.2	746.3	369.1	332.3	325.1	311.6	293.7	287.3	290.1	290.1
52.5°	5692.9	4217.4	708.6	358.3	320.6	308.9	293.7	275.7	270.4	271.2	271.2
55°	6899.1	5162.1	703.2	345.8	308.0	289.2	276.6	263.1	256.9	258.6	258.6
57.5°	8372.8	6468.8	799.3	326.0	290.9	269.4	262.3	253.3	248.8	251.4	250.5
60°	10164.4	8178.8	1185.5	305.4	273.9	251.4	251.4	244.3	240.7	243.4	242.4
62.5°	12228.3	10142.9	1666.8	290.1	255.9	237.1	240.7	237.1	233.5	235.3	234.4
65°	14058.5	11422.7	1560.8	278.4	238.0	223.6	229.9	228.1	225.5	227.2	226.3
67.5°	14111.5	10948.4	876.6	265.9	221.0	210.1	219.1	218.2	216.5	218.2	217.4
70°	12593.8	9244.8	494.0	242.4	203.0	194.0	206.5	205.6	203.9	207.5	206.5
72.5°	10089.9	6708.6	361.0	213.7	185.1	177.0	191.3	190.4	190.4	195.8	193.1
75°	5806.1	3452.3	288.3	183.2	166.1	159.9	172.5	173.3	175.1	182.3	177.0
77.5°	1655.1	1075.9	235.3	155.4	142.8	140.1	152.6	154.5	155.4	163.5	156.3
80°	615.2	495.7	194.0	130.2	116.7	117.6	129.3	132.1	132.9	141.0	132.1
82.5°	392.5	326.9	157.1	100.6	91.6	90.7	105.1	108.6	108.6	109.6	104.1
85°	229.0	195.8	118.6	72.7	64.7	62.0	78.2	84.4	81.7	79.9	76.3
87.5°	153.5	134.7	72.7	40.4	35.0	33.2	45.8	50.3	48.5	45.8	43.1
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)