

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: P192801

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15969.3 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

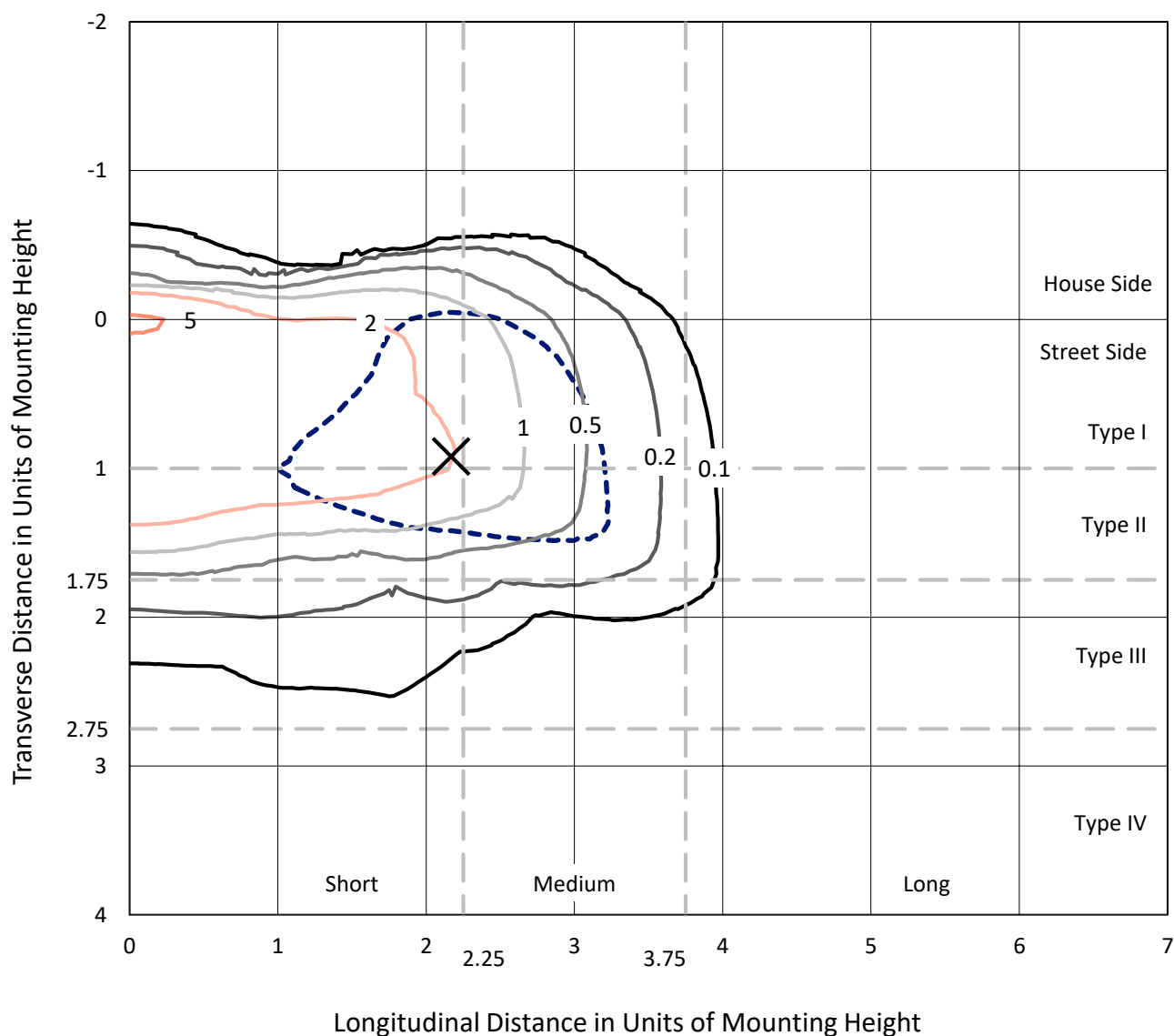


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

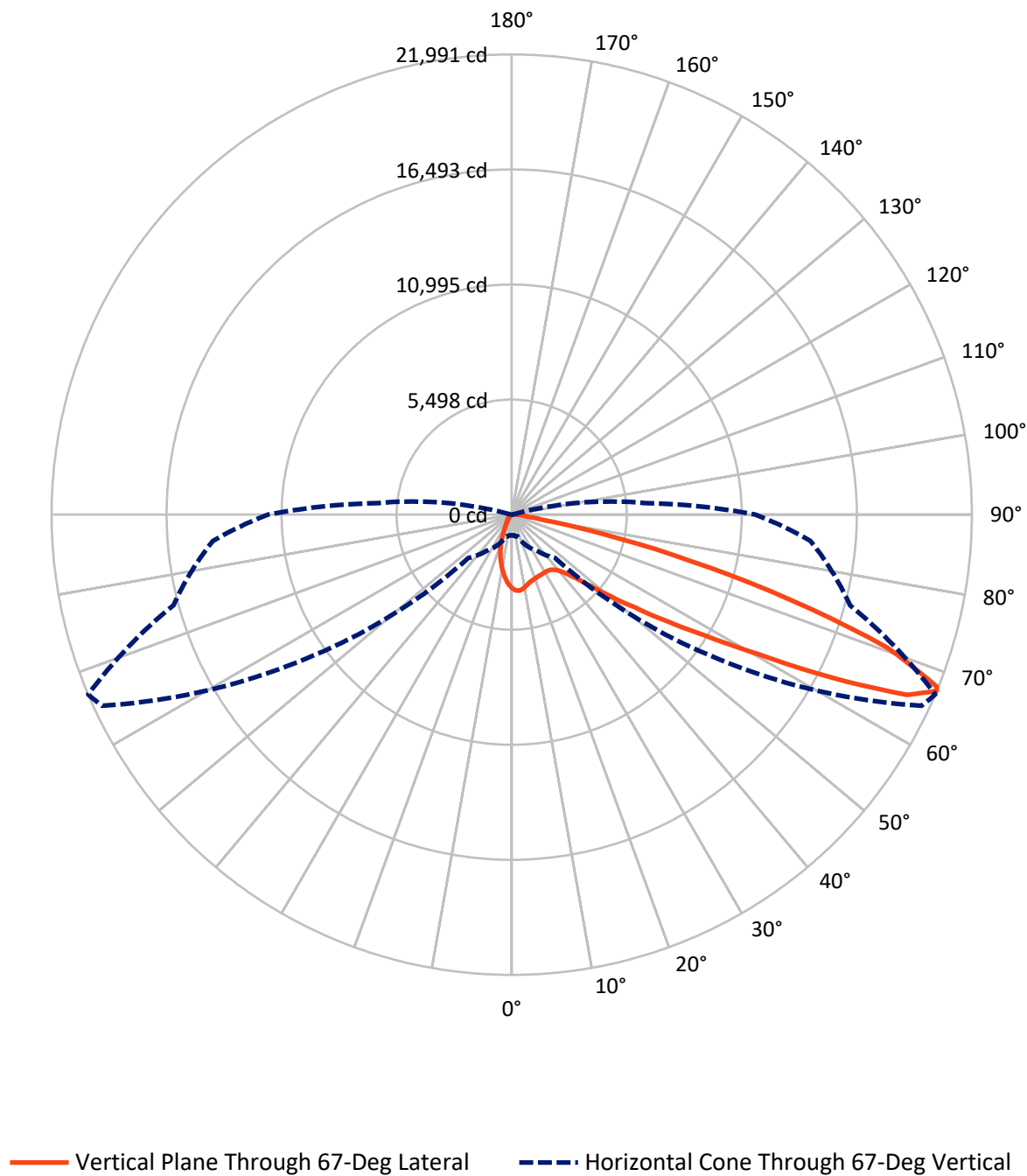


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.1	0.0	1658.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14311.2	0.0	14311.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	15969.3	0.0	15969.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	1.8
10°-20°	609.9	3.8
20°-30°	886.8	5.6
30°-40°	1383.4	8.7
40°-50°	2450.6	15.3
50°-60°	3877.9	24.3
60°-70°	4441.6	27.8
70°-80°	1842.3	11.5
80°-90°	190.3	1.2
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°	15969.3	100.0
0°-180°	15969.3	100.0

Coefficient of Utilization



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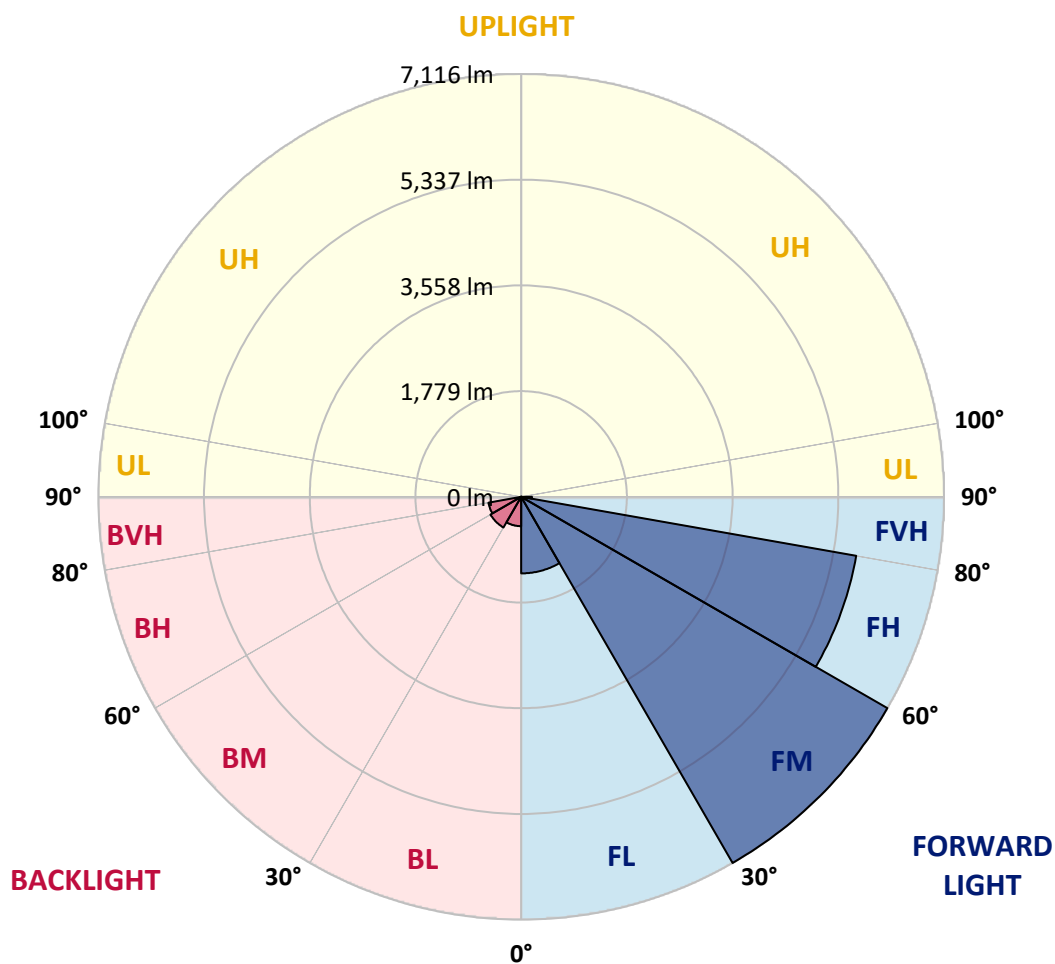
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.5	8.1			
FM	(30°-60°)	7116.0	44.6			
FH	(60°-80°)	5725.1	35.9			G3/7500
FVH	(80°-90°)	181.7	1.1			G2/225
BL	(0°-30°)	494.8	3.1	B1/500		
BM	(30°-60°)	595.9	3.7	B1/1000		
BH	(60°-80°)	558.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9
2.5°	3641.1	3648.5	3647.6	3653.2	3666.2	3667.2	3654.0	3628.9	3623.4	3590.8	3534.0
5°	3357.9	3379.3	3392.4	3445.5	3505.0	3576.8	3630.8	3650.4	3647.6	3624.2	3538.6
7.5°	3034.6	3056.1	3071.0	3133.4	3212.5	3335.5	3476.2	3591.7	3602.0	3627.1	3534.9
10°	2819.6	2823.3	2843.7	2903.3	2986.3	3112.0	3279.6	3481.8	3512.4	3604.7	3525.6
12.5°	2642.6	2645.2	2672.4	2736.6	2825.1	2951.7	3127.9	3361.6	3409.1	3576.8	3523.7
15°	2516.8	2527.0	2551.2	2618.3	2712.4	2838.1	3018.9	3273.1	3329.9	3566.6	3540.4
17.5°	2474.8	2486.0	2493.6	2541.9	2627.6	2750.6	2935.9	3215.4	3279.6	3572.1	3573.1
20°	2518.7	2527.0	2510.2	2522.4	2575.5	2685.4	2866.1	3166.0	3242.4	3578.7	3615.0
22.5°	2681.7	2685.4	2639.7	2586.6	2577.3	2637.8	2811.1	3126.9	3208.8	3596.4	3664.3
25°	2961.2	2954.6	2880.1	2765.5	2657.4	2629.6	2778.6	3102.6	3192.1	3615.0	3715.6
27.5°	3298.3	3307.6	3205.1	3038.4	2832.5	2685.4	2773.9	3092.5	3184.7	3628.1	3760.2
30°	3708.2	3721.2	3603.8	3394.2	3098.9	2823.3	2816.7	3090.6	3180.0	3619.6	3764.0
32.5°	4126.4	4142.1	4049.9	3833.9	3454.8	3054.3	2913.6	3111.0	3189.3	3590.8	3742.5
35°	4564.1	4586.4	4525.0	4339.7	3937.2	3387.7	3084.1	3173.4	3233.1	3588.0	3721.2
37.5°	5168.6	5189.2	5073.7	4877.2	4521.2	3834.8	3357.9	3290.8	3336.4	3632.7	3726.8
40°	6071.2	6068.4	5770.3	5469.5	5163.0	4402.9	3742.5	3503.2	3526.5	3767.7	3795.6
42.5°	7054.9	7050.2	6609.6	6152.3	5875.6	5102.5	4248.3	3870.2	3854.3	4016.5	3974.6
45°	7813.0	7812.1	7452.6	6937.4	6733.4	5905.5	4902.3	4380.6	4356.3	4420.6	4304.3
47.5°	8136.2	8141.9	7961.1	7598.8	7684.5	6991.5	5726.6	5120.2	5083.9	5057.8	4880.8
50°	7884.8	7895.9	7910.8	7840.0	8382.2	8451.1	6832.2	6162.6	6144.8	6028.4	5751.7
52.5°	7063.2	7120.0	7295.1	7519.7	8624.4	9852.0	8565.6	7457.3	7362.2	7238.3	6933.7
55°	5679.1	5741.5	6074.0	6618.9	8263.9	10772.3	10994.9	9126.4	8968.0	8598.2	8158.6
57.5°	3758.4	3855.3	4337.8	5030.8	7216.9	10920.4	13418.5	11442.9	10891.5	9879.0	9383.5
60°	2070.6	2163.8	2687.2	3315.0	5212.4	10188.2	15048.6	14459.0	13484.7	11310.6	10871.0
62.5°	1275.2	1325.5	1712.0	2296.1	3125.9	8041.3	15385.8	18249.0	17121.0	13153.9	12667.7
65°	1015.2	1036.8	1225.8	1876.8	2241.1	4783.1	14296.9	21138.4	20762.1	15385.8	14276.4
67°	985.5	993.8	1083.3	1611.5	2112.5	2932.2	11977.5	21608.8	21990.7	16736.4	14326.7
67.5°	992.0	1001.4	1086.0	1537.9	2108.8	2694.7	11178.5	21423.4	21905.9	16843.5	14104.1
70°	956.6	985.5	1243.5	1537.0	2005.5	2239.3	6694.4	18562.0	19064.1	15650.3	11967.2
72.5°	339.0	340.9	537.4	1243.5	2180.5	2263.5	3361.6	13607.5	13979.2	11972.0	8628.1
75°	201.1	171.4	178.8	354.0	2083.7	2198.2	1939.3	8695.1	8833.9	6860.2	4369.5
77.5°	138.8	121.1	124.8	156.5	793.6	2167.4	1540.7	4534.4	4386.2	2406.0	930.6
80°	79.2	69.8	74.6	136.9	288.8	2022.2	1453.0	1838.8	1567.7	408.0	257.1
82.5°	41.9	35.4	42.8	112.7	201.1	1260.3	1455.9	888.6	704.1	137.8	175.2
85°	14.9	12.1	20.5	77.3	134.2	386.6	1349.7	747.0	586.8	67.0	133.2
87.5°	2.8	2.8	8.4	31.6	54.0	118.3	798.2	443.4	297.1	40.1	91.2
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°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9
2.5°	3510.6	3470.6	3416.5	3350.4	3272.2	3203.3	3152.0	3098.9	3087.7	3069.1	3066.4
5°	3487.3	3418.4	3284.4	3130.6	2966.7	2818.6	2698.3	2591.3	2543.8	2502.8	2498.2
7.5°	3452.9	3349.6	3121.3	2873.5	2617.5	2384.5	2187.1	2047.3	1918.8	1857.3	1848.0
10°	3412.8	3264.7	2937.8	2594.2	2240.2	1911.4	1617.9	1372.1	1223.0	1134.5	1123.3
12.5°	3375.6	3181.8	2750.6	2304.4	1834.0	1394.3	1017.1	782.4	625.9	562.5	555.1
15°	3357.9	3114.8	2575.5	2008.1	1409.3	887.6	556.1	430.4	379.1	364.2	363.3
17.5°	3356.0	3057.9	2404.0	1701.7	987.3	516.0	362.3	330.6	320.4	316.8	316.8
20°	3355.2	3004.0	2232.7	1384.1	626.8	343.7	301.8	294.4	287.0	282.2	282.2
22.5°	3365.3	2955.5	2053.8	1060.1	395.0	278.5	265.5	258.0	248.7	242.2	241.3
25°	3375.6	2918.2	1871.3	754.4	285.9	242.2	229.1	218.8	205.9	197.4	196.5
27.5°	3377.4	2871.7	1675.7	504.9	239.4	211.4	194.7	178.8	163.9	155.5	154.6
30°	3349.6	2793.4	1458.6	340.9	211.4	183.4	161.1	144.3	130.4	123.9	123.9
32.5°	3294.6	2696.5	1220.2	257.1	188.2	157.5	133.2	117.4	108.0	105.2	104.4
35°	3245.2	2592.2	975.2	218.0	168.6	133.2	108.9	98.8	93.2	92.3	91.2
37.5°	3216.3	2508.4	745.1	197.4	150.0	111.8	92.3	84.7	82.0	80.1	81.1
40°	3238.7	2438.5	550.4	180.8	131.3	93.2	78.2	74.6	71.7	70.8	70.8
42.5°	3336.4	2426.4	408.9	165.7	113.6	77.3	68.0	65.2	63.4	62.4	63.4
45°	3593.5	2501.0	317.6	151.9	95.9	65.2	57.8	56.9	55.9	55.9	55.9
47.5°	3980.1	2654.7	264.5	136.0	80.1	55.9	50.3	49.3	48.4	49.3	49.3
50°	4634.9	2935.9	236.5	120.1	66.1	47.5	42.8	42.8	42.8	42.8	43.8
52.5°	5630.6	3489.2	218.0	104.4	54.0	40.1	36.3	36.3	37.2	37.2	38.2
55°	6739.9	4223.2	201.1	88.5	45.7	33.6	29.8	30.7	31.6	32.6	32.6
57.5°	7943.4	5036.5	187.3	72.6	39.2	27.0	25.1	26.1	27.0	28.9	28.9
60°	9395.5	5916.6	166.7	56.9	32.6	21.5	19.5	21.5	24.2	26.1	27.0
62.5°	10990.3	6767.9	140.6	44.7	27.0	16.7	15.9	19.5	23.3	25.1	26.1
65°	12080.0	7035.3	108.0	36.3	20.5	12.1	13.0	17.7	22.4	25.1	25.1
67°	11638.6	6378.5	88.5	30.7	16.7	9.3	12.1	17.7	22.4	24.2	25.1
67.5°	11332.1	6121.5	84.7	29.8	15.9	9.3	12.1	17.7	22.4	25.1	25.1
70°	9220.5	4598.6	70.8	22.4	13.0	8.4	10.3	16.7	21.5	24.2	24.2
72.5°	6406.5	2835.4	63.4	15.9	11.2	7.4	9.3	15.9	20.5	23.3	24.2
75°	3045.8	1026.5	54.0	12.1	10.3	6.5	8.4	15.9	20.5	23.3	23.3
77.5°	621.2	238.4	43.8	10.3	8.4	6.5	7.4	14.9	19.5	22.4	22.4
80°	204.0	92.3	32.6	9.3	8.4	6.5	7.4	13.9	19.5	21.5	22.4
82.5°	147.2	46.6	21.5	9.3	8.4	6.5	6.5	13.9	18.7	21.5	21.5
85°	112.7	32.6	13.9	9.3	8.4	6.5	6.5	13.0	17.7	20.5	20.5
87.5°	74.6	13.0	11.2	9.3	8.4	6.5	6.5	13.0	16.7	19.5	20.5
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)