

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: P301891

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL4-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20515.7 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

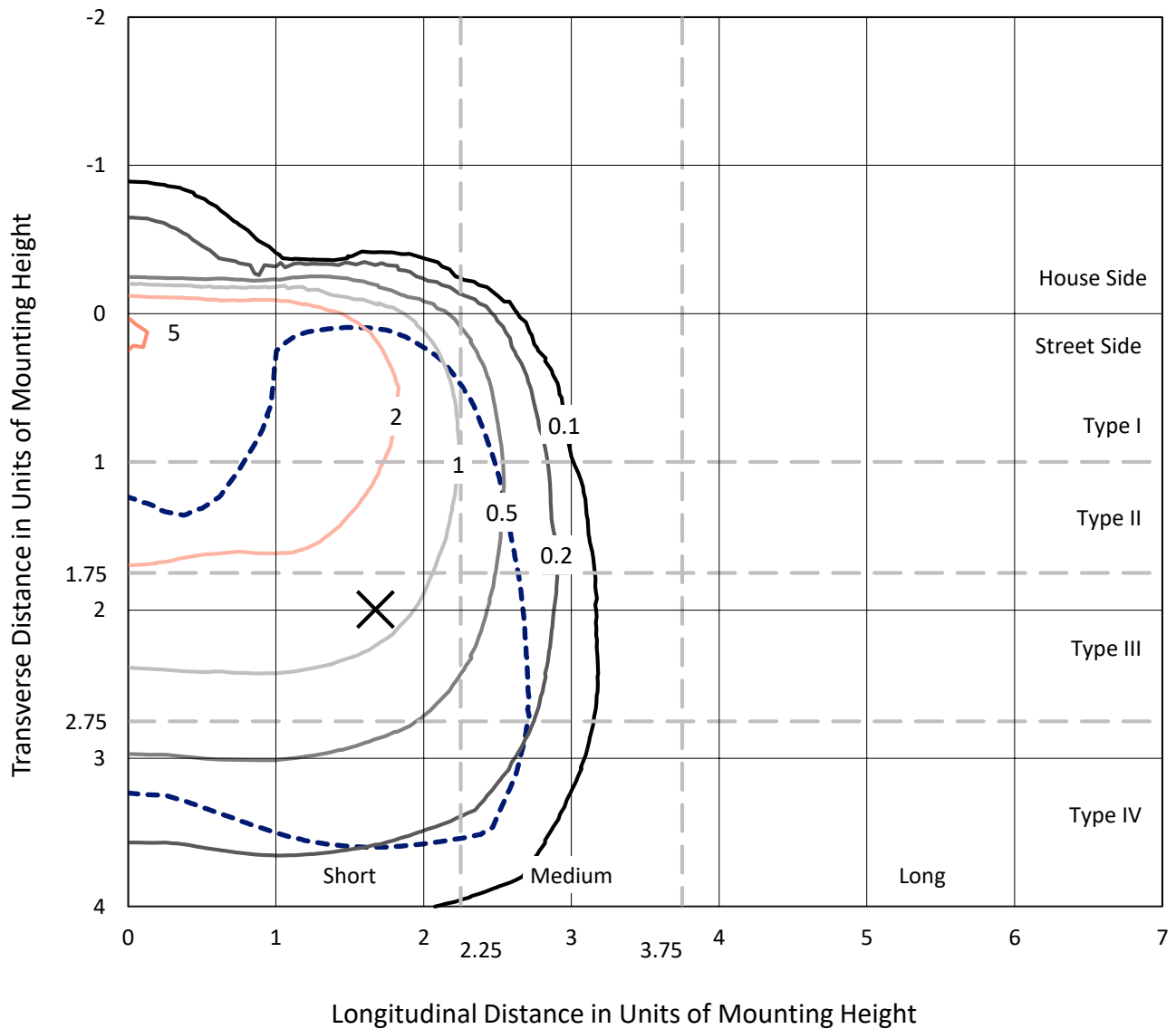
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

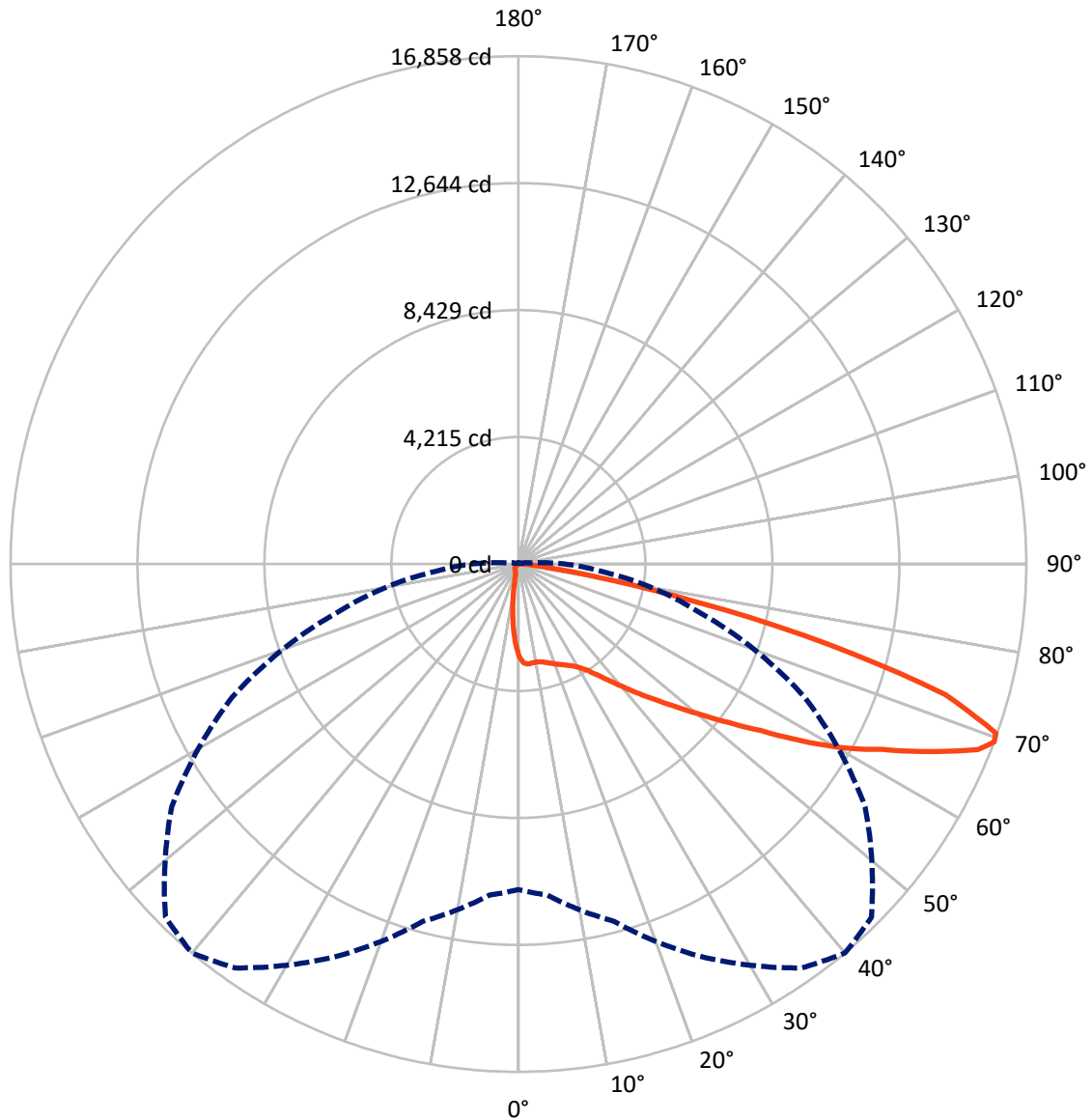


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.3	0.0	1200.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	19315.4	0.0	19315.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	20515.7	0.0	20515.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	1.2
10°-20°	611.2	3.0
20°-30°	1029.4	5.0
30°-40°	1685.2	8.2
40°-50°	2917.8	14.2
50°-60°	4595.9	22.4
60°-70°	6002.0	29.3
70°-80°	3091.3	15.1
80°-90°	334.4	1.6
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°	20515.7	100.0
0°-180°	20515.7	100.0

Coefficient of Utilization



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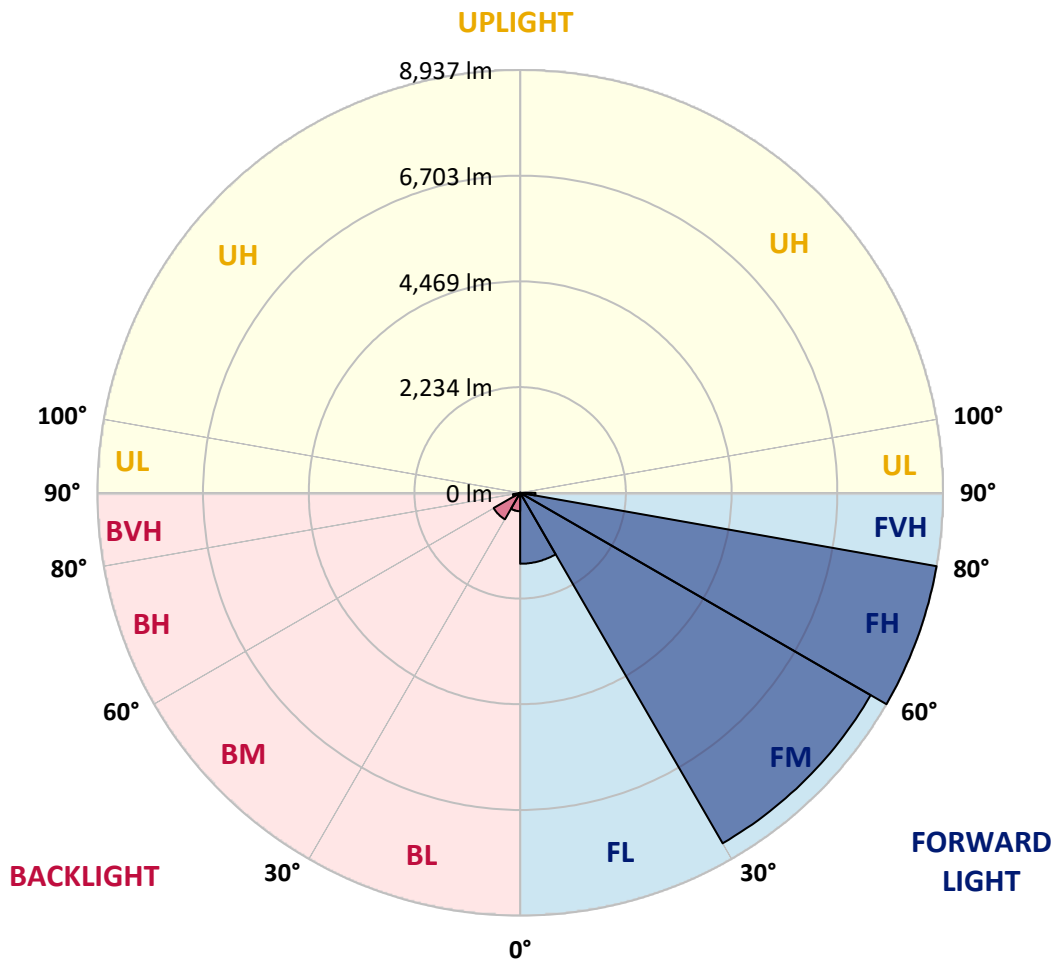
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.3	7.3			
FM	(30°-60°)	8553.7	41.7			
FH	(60°-80°)	8937.5	43.6			G4/12000
FVH	(80°-90°)	323.9	1.6			G3/500
BL	(0°-30°)	388.8	1.9	B1/500		
BM	(30°-60°)	645.1	3.1	B1/1000		
BH	(60°-80°)	155.9	0.8	B1/500		G1/500
BVH	(80°-90°)	10.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1
2.5°	3365.6	3347.2	3336.2	3321.6	3303.3	3287.4	3281.3	3236.1	3193.4	3134.8	3067.6
5°	3427.8	3421.7	3402.2	3382.7	3360.7	3336.2	3322.8	3269.1	3208.0	3122.5	3005.3
7.5°	3433.9	3426.6	3402.2	3375.3	3344.8	3315.5	3292.3	3238.6	3182.4	3095.7	2952.8
10°	3424.2	3415.6	3397.3	3368.0	3330.1	3302.1	3278.9	3227.6	3179.9	3101.8	2943.0
12.5°	3413.2	3404.6	3396.1	3381.4	3348.5	3328.9	3309.4	3260.5	3217.8	3151.8	2978.4
15°	3424.2	3419.3	3429.1	3422.9	3404.6	3387.5	3368.0	3324.0	3285.0	3230.0	3043.2
17.5°	3470.6	3470.6	3501.1	3504.8	3487.7	3463.2	3435.2	3391.2	3358.2	3311.8	3120.1
20°	3579.3	3575.6	3614.7	3622.0	3580.5	3542.6	3501.1	3447.4	3421.7	3392.4	3195.8
22.5°	3766.1	3749.0	3772.2	3764.9	3683.1	3624.4	3573.2	3507.2	3493.8	3480.3	3280.1
25°	4009.1	3999.3	4015.2	3943.2	3799.1	3719.7	3658.6	3584.1	3584.1	3597.6	3375.3
27.5°	4362.0	4325.4	4271.7	4144.7	3928.5	3827.2	3761.2	3681.8	3702.6	3752.7	3501.1
30°	4723.5	4683.2	4559.9	4364.5	4086.0	3979.8	3902.9	3819.8	3868.7	3960.3	3669.6
32.5°	5080.1	5034.9	4860.3	4613.6	4312.0	4205.7	4131.2	4039.6	4121.5	4275.3	3916.3
35°	5425.7	5385.4	5183.9	4893.2	4612.4	4524.4	4456.1	4376.7	4481.7	4696.6	4264.3
37.5°	5814.0	5770.0	5524.6	5209.5	4977.5	4914.0	4863.9	4784.6	4967.7	5282.8	4749.1
40°	6291.5	6217.0	5886.1	5572.2	5400.0	5369.5	5335.3	5324.3	5608.9	6044.8	5395.1
42.5°	6838.6	6716.5	6264.6	5954.4	5864.1	5886.1	5877.5	5926.4	6411.2	6992.4	6181.6
45°	7385.7	7228.1	6685.9	6362.3	6374.5	6451.5	6499.1	6694.5	7416.2	8079.3	7027.9
47.5°	7849.7	7694.6	7090.1	6803.2	6949.7	7101.1	7230.6	7600.6	8449.3	9149.0	7686.1
50°	8246.6	8100.0	7518.8	7288.0	7617.7	7861.9	8072.0	8620.3	9560.6	9963.6	8147.7
52.5°	8571.4	8473.7	7963.3	7843.6	8380.9	8738.7	9046.5	9703.4	10544.8	10625.4	8506.7
55°	8887.7	8818.1	8440.8	8504.3	9277.3	9764.5	10154.1	10852.6	11392.3	11177.4	8851.1
57.5°	9251.6	9188.1	8985.4	9342.0	10455.7	11068.7	11493.7	11871.0	12138.5	11741.6	9175.9
60°	9622.8	9586.2	9591.1	10272.5	11808.7	12397.4	12631.8	12729.5	12871.2	12272.8	9194.2
62.5°	9977.0	10046.6	10283.5	11308.1	13104.4	13556.2	13674.7	13771.2	13605.1	12357.1	8494.5
65°	10576.6	10690.2	11255.6	12694.1	14529.5	15013.1	15135.2	14804.3	13721.1	11267.8	6909.4
67.5°	10869.7	11077.3	12086.0	13986.1	15911.9	16449.2	16404.0	14871.5	12313.1	8592.2	4434.1
69°	10808.6	11029.6	12277.7	14381.8	16371.1	16858.3	16571.3	14049.6	10489.9	6224.3	2722.0
70°	10566.8	10790.3	12178.8	14367.1	16429.7	16815.6	16261.1	13034.8	8869.4	4551.3	1702.3
72.5°	8824.2	9017.1	10812.3	12986.0	15135.2	14821.4	13603.9	9030.6	4321.7	1239.5	383.4
75°	5431.8	5539.2	7758.1	9782.8	11431.4	10625.4	9063.6	4492.7	1288.3	350.5	212.5
77.5°	2869.8	2918.6	4247.2	5766.4	7246.4	5996.0	4645.3	1752.4	593.5	219.8	153.9
80°	1696.2	1732.8	2287.3	2636.5	3136.0	2619.4	1857.4	1075.9	425.0	138.0	136.8
82.5°	970.8	994.0	1658.4	1465.4	1235.8	1055.1	924.4	1019.7	255.2	92.8	141.7
85°	356.6	361.5	933.0	1114.9	735.1	437.2	459.2	845.1	68.4	58.6	111.1
87.5°	166.1	162.4	479.9	682.6	429.9	277.2	357.8	185.6	26.9	37.9	30.5
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°	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1	3065.1
2.5°	3028.5	2983.3	2901.5	2817.2	2731.8	2665.8	2601.1	2549.8	2532.7	2501.0	2503.4
5°	2935.7	2852.7	2681.7	2508.3	2327.6	2178.6	2038.1	1924.6	1869.6	1813.4	1813.4
7.5°	2855.1	2734.2	2466.8	2184.7	1892.8	1647.4	1426.3	1260.3	1168.7	1095.4	1094.2
10°	2824.6	2660.9	2287.3	1883.0	1476.4	1141.8	879.2	710.7	624.0	567.8	565.4
12.5°	2838.0	2635.3	2149.3	1604.6	1094.2	733.9	509.2	400.5	363.9	346.8	346.8
15°	2877.1	2628.0	2011.3	1332.3	773.0	459.2	338.3	309.0	306.5	306.5	306.5
17.5°	2924.7	2630.4	1869.6	1067.3	526.3	328.5	291.9	288.2	290.6	290.6	290.6
20°	2973.6	2631.6	1717.0	821.8	371.2	285.8	274.8	273.5	276.0	276.0	277.2
22.5°	3033.4	2637.7	1564.3	614.3	306.5	269.9	261.3	261.3	262.6	262.6	261.3
25°	3101.8	2649.9	1405.6	455.5	279.6	258.9	251.6	250.3	251.6	250.3	249.1
27.5°	3187.3	2667.0	1228.5	356.6	267.4	247.9	241.8	241.8	240.6	239.4	238.1
30°	3294.7	2686.6	1029.4	302.9	255.2	238.1	232.0	230.8	229.6	227.1	227.1
32.5°	3458.4	2729.3	832.8	274.8	241.8	224.7	219.8	219.8	217.4	214.9	213.7
35°	3709.9	2813.6	657.0	257.7	227.1	210.0	203.9	203.9	201.5	200.3	199.1
37.5°	4058.0	2941.8	510.5	241.8	212.5	194.2	188.1	186.8	184.4	182.0	180.7
40°	4520.8	3100.6	401.8	227.1	197.8	178.3	173.4	171.0	166.1	162.4	162.4
42.5°	5102.1	3281.3	326.1	211.3	180.7	163.6	160.0	156.3	147.8	144.1	142.9
45°	5710.2	3443.7	276.0	192.9	163.6	149.0	146.5	140.4	129.4	125.8	125.8
47.5°	6148.6	3481.6	243.0	175.8	147.8	133.1	131.9	120.9	111.1	108.7	107.5
50°	6422.2	3407.1	216.1	158.8	133.1	118.5	114.8	101.4	95.3	92.8	91.6
52.5°	6606.5	3274.0	194.2	144.1	119.7	105.0	96.5	86.7	81.8	79.4	79.4
55°	6754.3	3085.9	172.2	130.7	108.7	94.0	81.8	74.5	69.6	67.2	67.2
57.5°	6795.8	2830.7	150.2	119.7	97.7	83.0	69.6	64.7	58.6	57.4	57.4
60°	6494.2	2370.3	133.1	106.2	87.9	72.0	61.1	55.0	48.8	47.6	46.4
62.5°	5699.2	1834.2	117.2	94.0	76.9	62.3	52.5	45.2	40.3	40.3	40.3
65°	4347.4	1229.7	102.6	81.8	67.2	52.5	45.2	36.6	34.2	34.2	35.4
67.5°	2602.3	669.2	87.9	69.6	57.4	44.0	37.9	31.8	30.5	31.8	31.8
69°	1525.2	393.2	79.4	62.3	50.1	39.1	33.0	28.1	30.5	31.8	31.8
70°	941.5	265.0	73.3	56.2	45.2	35.4	30.5	26.9	29.3	30.5	30.5
72.5°	262.6	136.8	58.6	44.0	36.6	29.3	24.4	24.4	28.1	29.3	29.3
75°	171.0	101.4	45.2	33.0	28.1	23.2	20.8	23.2	26.9	28.1	28.1
77.5°	141.7	83.0	36.6	26.9	23.2	22.0	19.5	20.8	24.4	25.6	25.6
80°	129.4	58.6	29.3	24.4	20.8	19.5	18.3	17.1	22.0	23.2	23.2
82.5°	123.3	46.4	25.6	22.0	19.5	17.1	15.9	17.1	19.5	20.8	22.0
85°	76.9	30.5	23.2	20.8	17.1	15.9	15.9	15.9	18.3	19.5	19.5
87.5°	28.1	24.4	20.8	17.1	14.7	14.7	14.7	14.7	15.9	18.3	18.3
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)