

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: P269315

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14548.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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

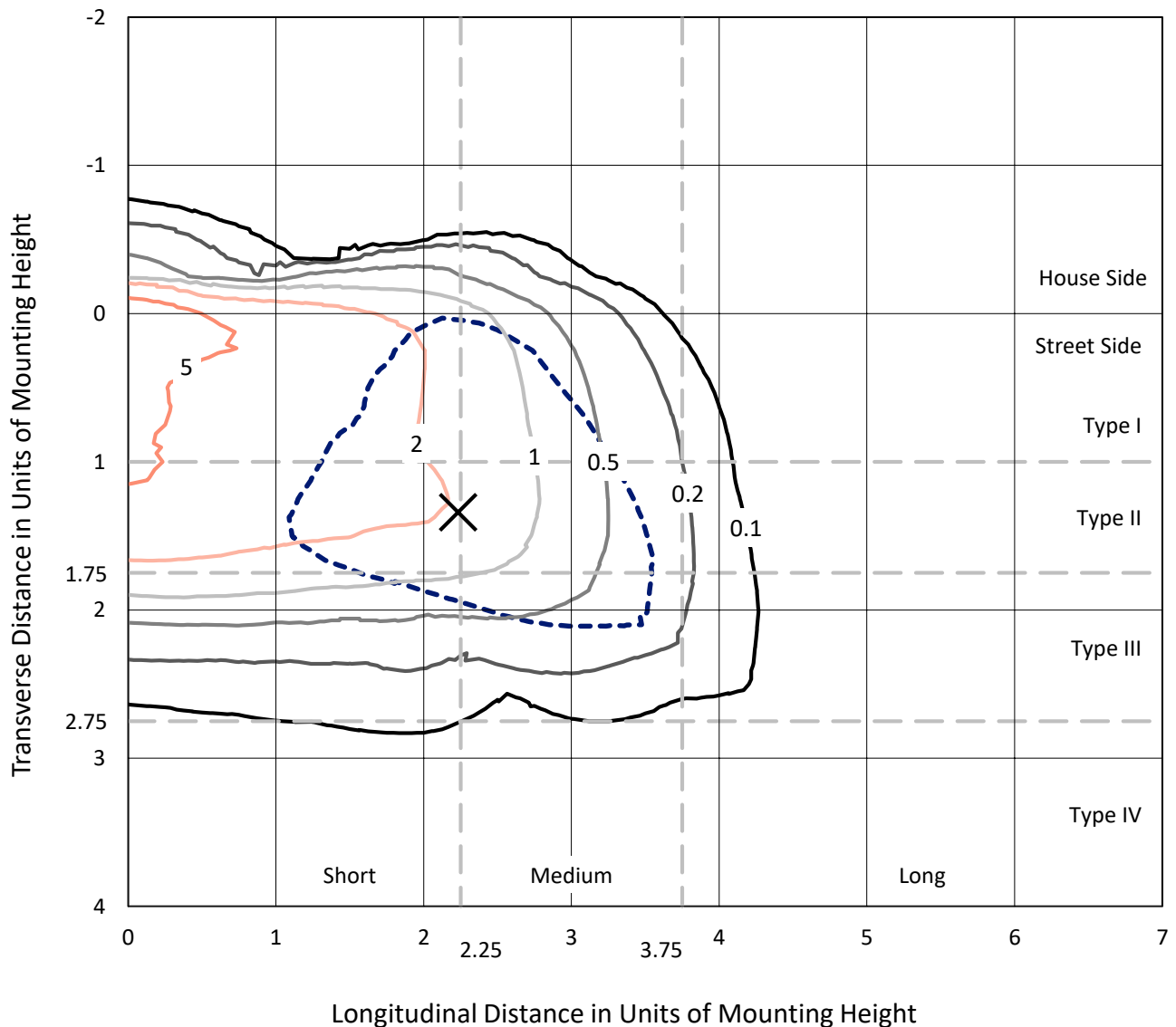


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

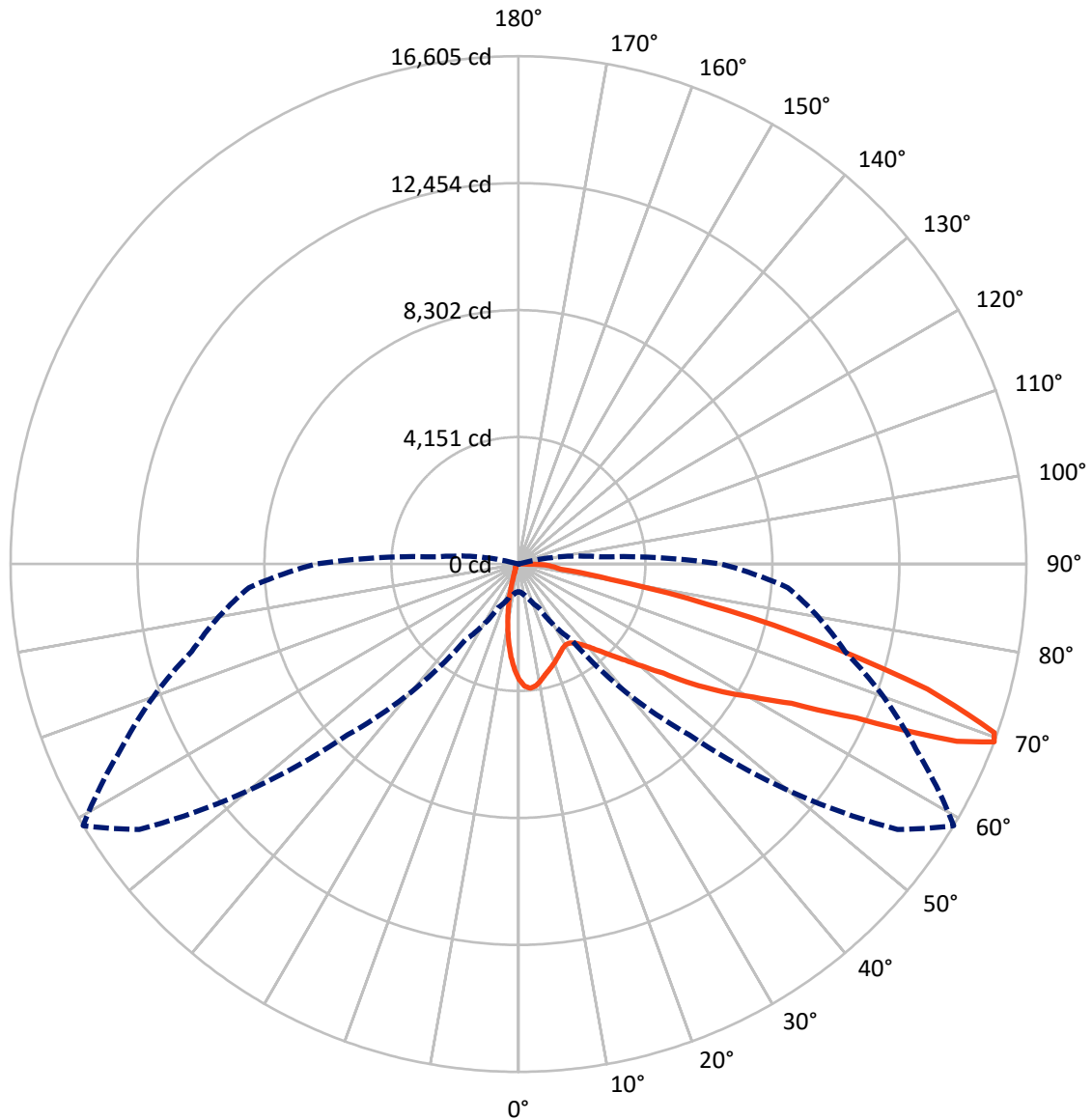


Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.8	0.0	1184.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	13363.7	0.0	13363.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	14548.5	0.0	14548.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	2.1
10°-20°	635.1	4.4
20°-30°	854.6	5.9
30°-40°	1240.9	8.5
40°-50°	2066.1	14.2
50°-60°	3223.1	22.2
60°-70°	3988.4	27.4
70°-80°	2021.3	13.9
80°-90°	211.5	1.5
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°	14548.5	100.0
0°-180°	14548.5	100.0



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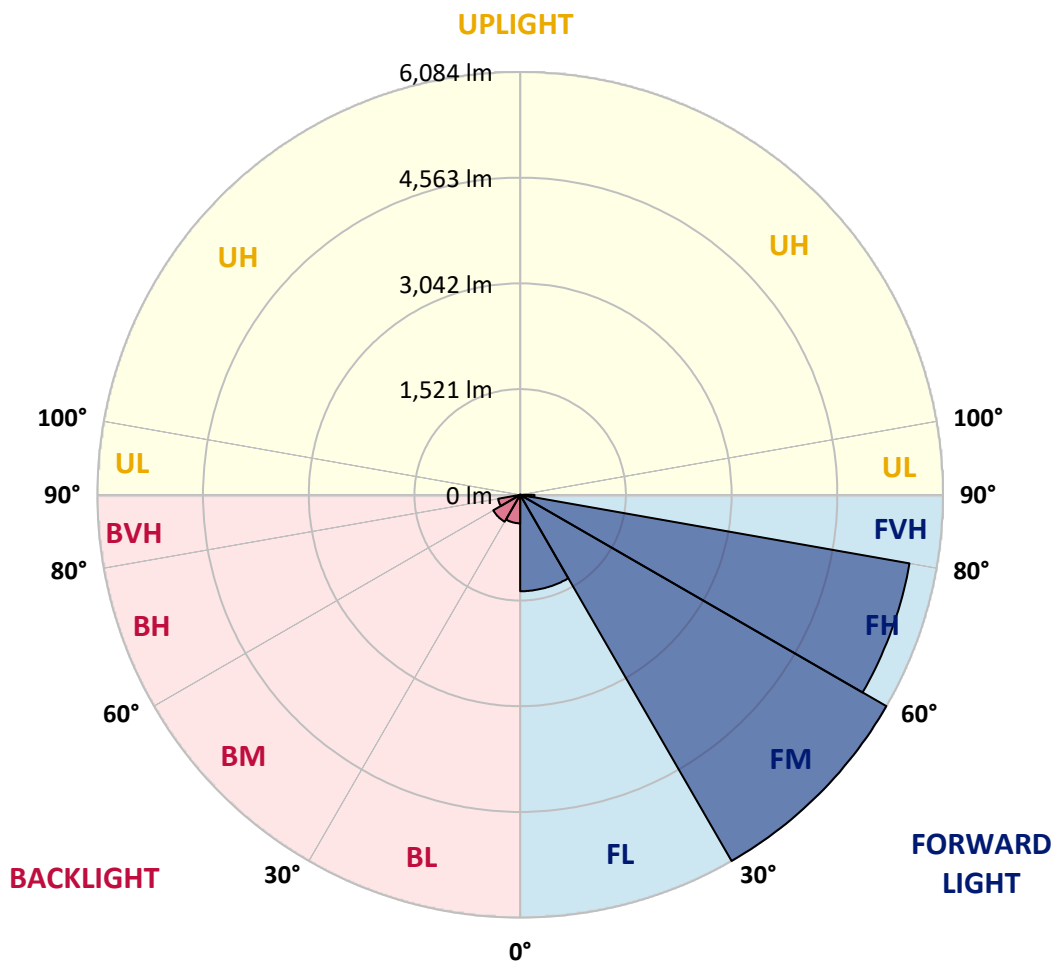
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.0	9.5			
FM	(30°-60°)	6083.8	41.8			
FH	(60°-80°)	5687.9	39.1			G3/7500
FVH	(80°-90°)	205.0	1.4			G2/225
BL	(0°-30°)	410.1	2.8	B1/500		
BM	(30°-60°)	446.4	3.1	B1/1000		
BH	(60°-80°)	321.8	2.2	B1/500		G1/500
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7
2.5°	4150.3	4148.7	4130.6	4122.4	4107.6	4076.4	4027.8	4002.3	3961.2	3889.7	3793.4
5°	4112.5	4132.4	4143.1	4143.8	4154.5	4143.1	4099.3	4077.9	4021.3	3906.1	3733.3
7.5°	3855.9	3863.3	3893.8	3920.1	3971.0	4019.6	4035.2	4026.2	3992.4	3869.0	3639.6
10°	3581.2	3588.5	3624.8	3659.2	3728.3	3803.2	3882.3	3898.6	3912.7	3816.4	3549.1
12.5°	3344.2	3351.5	3388.5	3433.9	3514.4	3606.7	3729.1	3756.4	3818.1	3766.2	3476.6
15°	3140.1	3143.4	3179.6	3235.5	3331.9	3450.3	3589.4	3632.9	3727.5	3730.8	3413.3
17.5°	2966.6	2974.7	2997.0	3050.5	3155.7	3302.2	3464.3	3526.8	3637.9	3701.1	3351.5
20°	2860.5	2868.6	2867.8	2897.5	2992.1	3148.4	3339.2	3414.1	3549.1	3670.7	3296.5
22.5°	2839.9	2839.9	2818.5	2814.4	2870.4	3001.1	3209.3	3300.6	3469.3	3657.5	3257.9
25°	2913.2	2909.8	2856.3	2812.8	2815.2	2893.4	3083.4	3191.9	3401.7	3666.6	3237.2
27.5°	3067.7	3063.6	2996.1	2913.2	2846.5	2845.7	2987.9	3104.8	3348.3	3709.5	3245.4
30°	3281.7	3280.0	3206.8	3102.2	2981.4	2870.4	2955.1	3061.2	3313.8	3786.7	3264.4
32.5°	3515.2	3512.8	3457.7	3347.4	3194.5	2981.4	2989.6	3078.4	3323.5	3889.7	3310.4
35°	3762.9	3758.8	3735.0	3638.7	3470.1	3186.2	3103.1	3172.3	3386.2	4043.5	3401.0
37.5°	4031.1	4035.2	4052.6	3960.4	3783.5	3473.3	3293.1	3340.1	3512.1	4252.3	3548.1
40°	4426.8	4425.9	4431.8	4310.8	4140.5	3824.7	3558.8	3573.6	3722.5	4529.7	3772.0
42.5°	5145.0	5094.8	4942.7	4695.8	4524.8	4226.0	3893.8	3878.2	3980.1	4872.6	4085.4
45°	6110.0	6003.1	5608.2	5135.2	4916.3	4678.6	4305.8	4255.7	4320.7	5284.9	4472.0
47.5°	6940.0	6829.1	6270.3	5592.6	5331.8	5108.0	4788.8	4698.2	4719.6	5746.4	4962.3
50°	7222.3	7167.9	6680.2	5990.7	5734.1	5648.5	5349.0	5238.7	5208.4	6280.3	5530.9
52.5°	7124.4	7120.2	6795.3	6249.0	6102.5	6207.8	6054.0	5926.6	5814.6	6843.0	6109.3
55°	6967.3	6987.7	6842.2	6475.3	6470.3	6718.9	7018.3	6912.1	6588.0	7454.2	6607.8
57.5°	6533.7	6621.6	6815.9	6903.0	7105.5	7359.6	7821.2	7883.6	7500.3	7922.3	7021.5
60°	5301.3	5494.7	6129.8	6964.7	7923.9	8557.4	8790.3	8843.8	8249.0	8311.5	7580.1
62.5°	3762.9	3960.4	4765.8	6178.4	7936.3	10131.3	10234.1	10024.2	9073.3	8888.2	8543.5
65°	1997.4	2149.6	2807.8	4459.7	6880.8	10496.5	12758.8	12133.6	10527.7	10022.7	9788.2
67.5°	1021.7	1067.8	1329.4	2182.5	4730.4	9323.4	15022.0	15462.2	13034.4	11148.1	9728.1
69°	904.1	931.3	1104.8	1578.0	3029.1	7896.9	15132.3	16604.9	14346.7	11054.4	8840.5
70°	875.3	899.2	1057.1	1428.1	2367.7	6622.6	14710.3	16504.5	14682.3	10697.2	8177.5
72.5°	742.9	763.4	941.2	1261.9	1924.2	3287.3	11949.3	13985.5	13175.1	8911.2	5919.1
75°	496.9	564.3	903.2	1183.0	1790.1	1867.4	7878.0	10106.7	9388.4	6010.5	3083.4
77.5°	119.3	128.4	254.9	941.2	1637.2	1643.7	4051.6	6282.7	5124.4	2142.3	728.9
80°	64.1	61.8	71.5	186.8	1524.5	1542.5	1823.9	3049.7	1829.7	355.4	240.2
82.5°	45.3	42.8	46.1	78.2	479.6	1405.0	1319.6	1380.4	758.4	136.5	107.7
85°	16.4	15.6	25.5	70.7	150.6	807.8	1355.7	1138.6	614.5	62.5	79.1
87.5°	5.7	4.9	9.9	38.6	46.1	344.0	836.6	860.5	241.9	37.9	37.0
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°	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7
2.5°	3753.1	3702.1	3608.2	3512.1	3423.1	3316.3	3262.7	3210.1	3187.8	3179.6	3141.0
5°	3644.5	3558.0	3359.0	3159.1	2974.7	2778.9	2649.8	2546.2	2485.3	2455.6	2408.7
7.5°	3505.5	3364.0	3062.1	2753.5	2466.3	2183.4	1973.5	1812.3	1701.3	1647.9	1599.3
10°	3370.5	3182.1	2752.6	2332.3	1942.3	1567.3	1277.6	1067.8	933.8	872.1	832.5
12.5°	3249.6	3005.2	2454.0	1921.7	1432.3	992.9	698.4	531.4	448.3	419.6	405.6
15°	3141.8	2842.3	2171.8	1531.8	969.9	567.6	381.7	324.9	311.8	311.8	310.2
17.5°	3039.8	2682.8	1899.6	1165.7	608.8	347.1	290.4	283.0	283.0	286.3	286.3
20°	2941.9	2530.5	1636.4	836.6	383.3	275.6	262.5	260.8	262.5	266.5	266.5
22.5°	2858.0	2392.4	1390.3	574.2	284.7	248.4	241.9	239.4	240.2	242.7	244.2
25°	2795.4	2275.5	1158.4	389.1	245.1	226.3	218.8	214.8	211.5	211.5	213.1
27.5°	2756.0	2176.9	933.8	283.0	220.4	205.6	194.2	187.6	180.2	176.1	177.8
30°	2727.2	2083.0	723.1	231.1	197.4	182.6	167.9	157.2	146.5	141.6	143.1
32.5°	2716.5	2007.4	540.5	204.1	176.8	160.3	142.3	128.4	116.8	112.6	113.5
35°	2745.3	1947.3	395.8	184.3	160.3	139.9	119.3	103.7	94.6	92.2	93.0
37.5°	2820.9	1915.1	296.3	167.9	145.6	122.6	99.5	84.7	79.1	79.1	79.8
40°	2964.0	1914.4	237.7	156.3	132.4	106.1	82.3	71.5	68.4	69.9	70.7
42.5°	3173.1	1957.9	207.2	145.6	120.9	90.5	68.4	60.8	60.0	61.8	62.5
45°	3458.6	2037.7	190.9	136.5	108.5	75.6	57.6	52.6	52.6	55.2	56.0
47.5°	3808.2	2154.6	176.8	127.5	96.3	63.3	49.3	46.1	46.9	49.3	50.1
50°	4229.4	2301.8	163.0	117.7	87.1	52.6	42.8	40.3	41.1	44.5	45.3
52.5°	4708.9	2500.2	151.4	108.5	75.6	43.6	36.2	34.6	36.2	39.4	40.3
55°	5120.2	2677.8	137.4	101.1	60.8	36.2	29.6	29.6	31.4	35.4	36.2
57.5°	5516.0	2863.7	125.0	87.1	47.7	28.7	24.7	25.5	27.9	32.1	32.9
60°	6096.8	3178.8	110.2	73.2	36.2	23.0	20.7	21.4	24.7	28.7	29.6
62.5°	7083.2	3658.4	95.4	60.8	27.9	18.1	16.4	18.1	22.2	27.2	27.9
65°	7973.4	3853.4	78.2	51.1	21.4	14.0	14.0	16.4	21.4	26.3	27.2
67.5°	7477.3	3243.8	60.8	40.3	16.4	10.7	11.5	15.6	20.7	26.3	27.2
69°	6612.7	2652.2	51.8	32.1	14.0	9.9	10.7	15.6	20.7	25.5	26.3
70°	5938.9	2239.4	46.1	27.2	12.3	9.9	10.7	14.8	20.7	25.5	26.3
72.5°	3977.6	1209.3	37.0	19.8	11.5	9.1	9.1	14.8	19.8	24.7	25.5
75°	1709.6	334.0	29.6	14.0	9.9	8.3	8.3	14.0	19.0	23.9	25.5
77.5°	312.6	84.7	23.9	12.3	9.9	8.3	7.4	13.1	18.1	23.0	23.9
80°	124.2	42.0	19.0	10.7	9.1	7.4	6.6	12.3	17.2	22.2	23.0
82.5°	74.9	23.9	15.6	9.9	9.1	6.6	5.7	10.7	16.4	21.4	22.2
85°	60.8	16.4	12.3	9.9	8.3	6.6	4.9	9.9	14.8	20.7	21.4
87.5°	29.6	11.5	11.5	9.1	8.3	6.6	4.9	9.1	14.0	19.8	20.7
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)