

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: P193654

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193654
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-06-LED-E1-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 16352 lumens
Efficiency: N/A
Efficacy: 84.7 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): 193
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

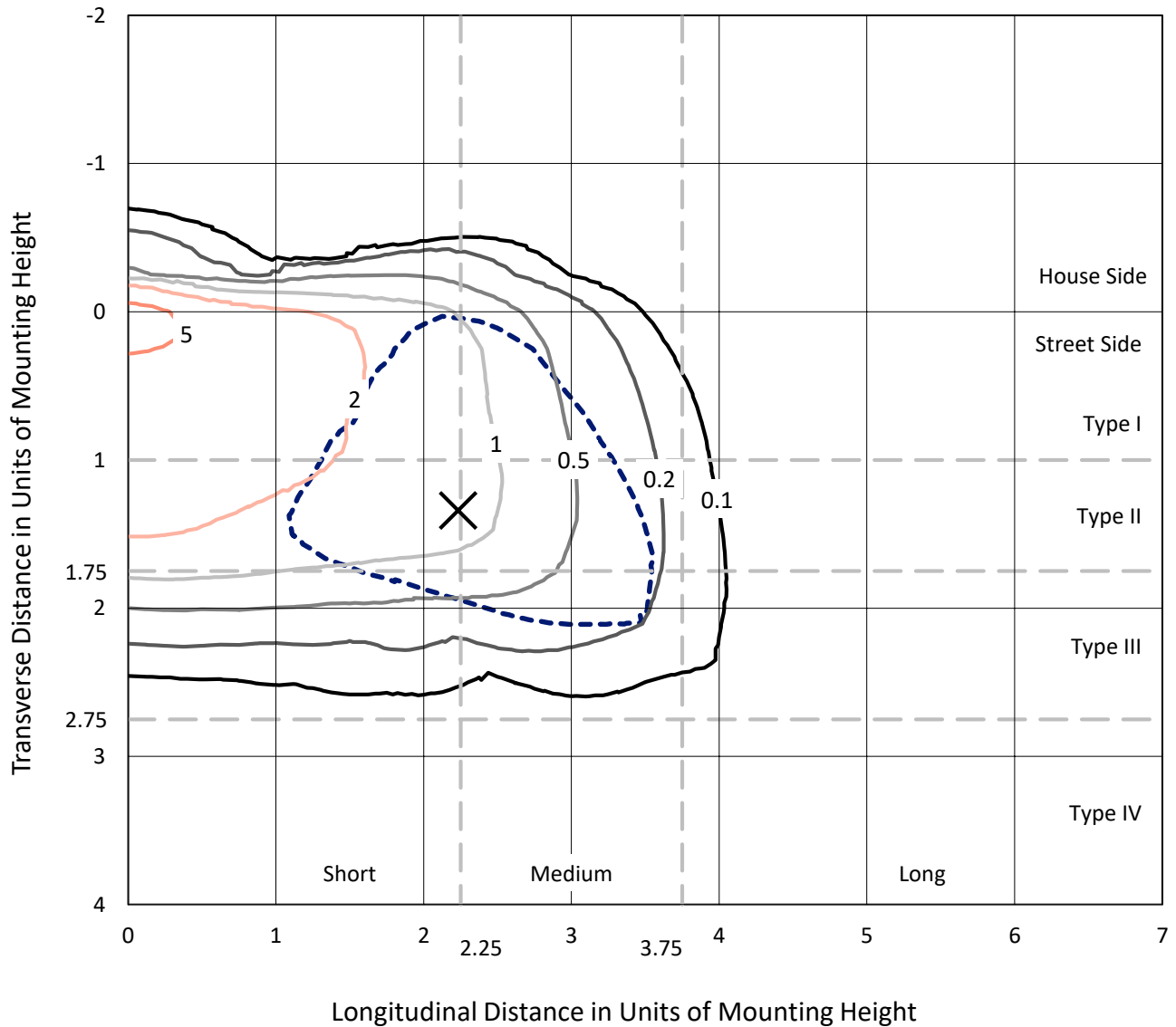


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

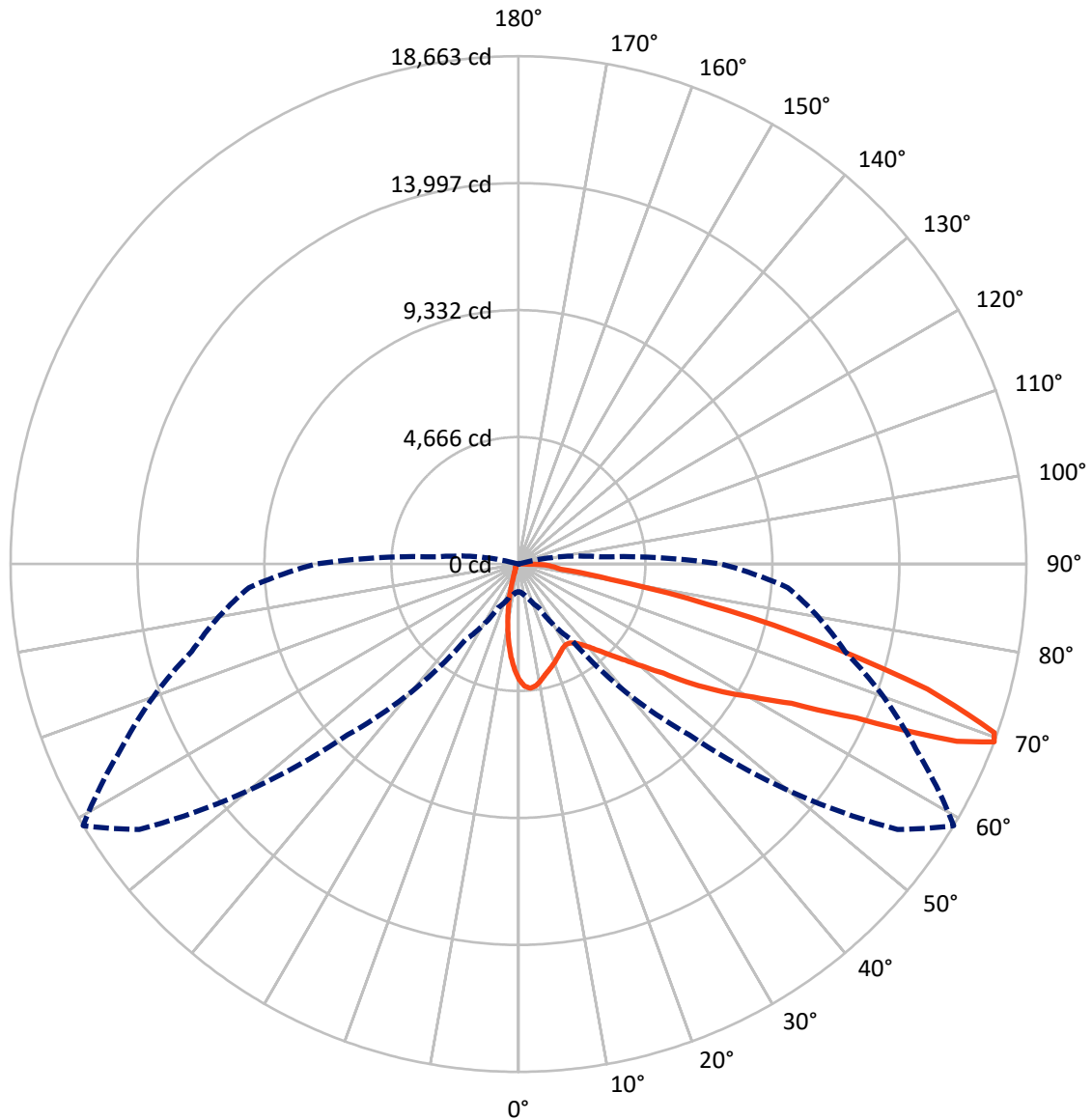


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Non-Cutoff

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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	1331.6	0.0	1331.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	15020.3	0.0	15020.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	16352.0	0.0	16352.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	2.1
10°-20°	713.8	4.4
20°-30°	960.6	5.9
30°-40°	1394.7	8.5
40°-50°	2322.3	14.2
50°-60°	3622.7	22.2
60°-70°	4482.8	27.4
70°-80°	2271.8	13.9
80°-90°	237.7	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°	16352.0	100.0
0°-180°	16352.0	100.0



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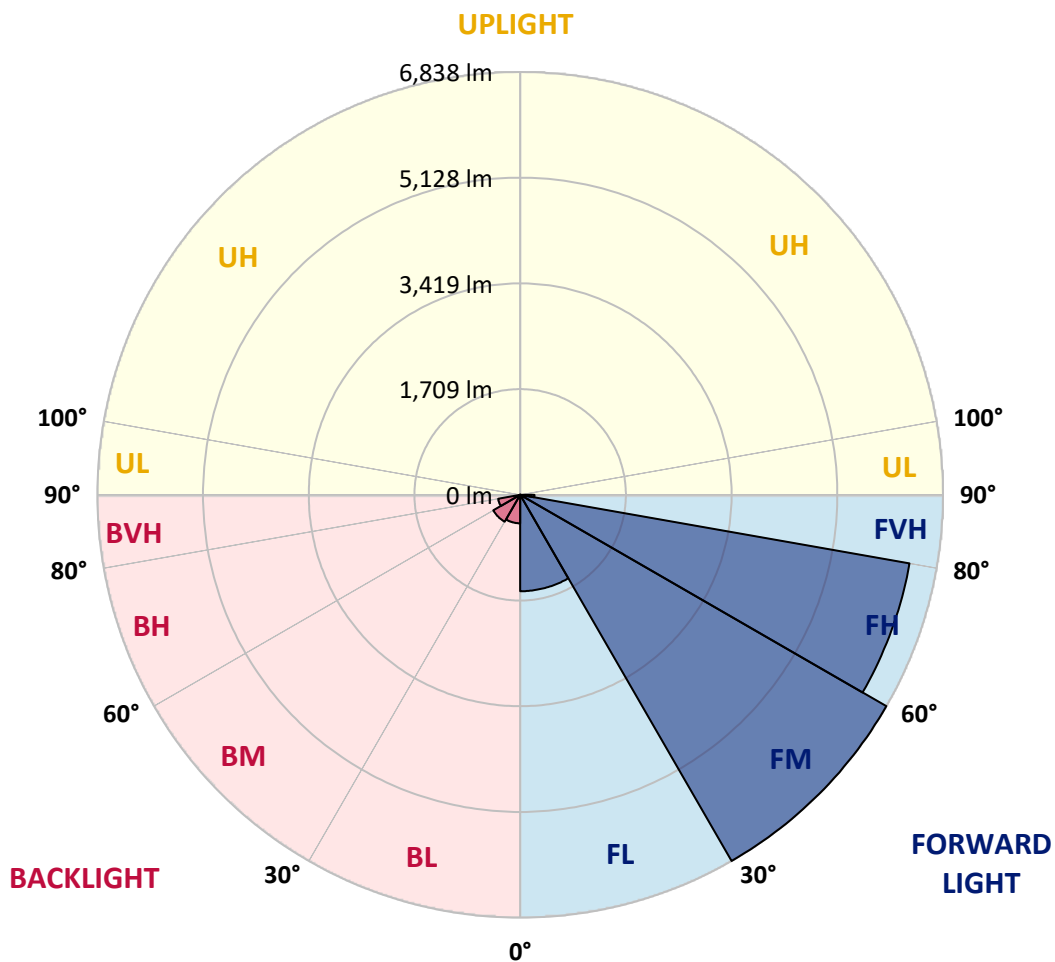
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.0	9.5			
FM	(30°-60°)	6837.9	41.8			
FH	(60°-80°)	6393.0	39.1			G3/7500
FVH	(80°-90°)	230.4	1.4			G3/500
BL	(0°-30°)	460.9	2.8	B1/500		
BM	(30°-60°)	501.8	3.1	B1/1000		
BH	(60°-80°)	361.6	2.2	B1/500		G1/500
BVH	(80°-90°)	7.3	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°	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2
2.5°	4664.9	4663.0	4642.7	4633.5	4616.8	4581.7	4527.1	4498.5	4452.2	4371.8	4263.6
5°	4622.4	4644.6	4656.6	4657.5	4669.5	4656.6	4607.6	4583.5	4519.7	4390.3	4196.1
7.5°	4333.9	4342.2	4376.4	4406.0	4463.3	4517.9	4535.4	4525.3	4487.4	4348.7	4090.7
10°	4025.0	4033.4	4074.0	4112.9	4190.5	4274.7	4363.5	4382.0	4397.7	4289.5	3989.0
12.5°	3758.7	3767.1	3808.7	3859.5	3950.1	4053.7	4191.5	4222.0	4291.3	4233.1	3907.6
15°	3529.4	3533.1	3573.8	3636.7	3744.9	3878.0	4034.3	4083.3	4189.6	4193.3	3836.4
17.5°	3334.3	3343.6	3368.5	3428.6	3547.0	3711.6	3893.7	3964.0	4088.8	4160.0	3767.1
20°	3215.0	3224.3	3223.4	3256.6	3363.0	3538.7	3753.2	3837.3	3989.0	4125.8	3705.1
22.5°	3191.9	3191.9	3167.9	3163.3	3226.1	3373.2	3607.1	3709.7	3899.3	4111.0	3661.6
25°	3274.2	3270.5	3210.4	3161.4	3164.2	3252.0	3465.6	3587.7	3823.5	4121.2	3638.5
27.5°	3448.0	3443.4	3367.6	3274.2	3199.3	3198.4	3358.4	3489.7	3763.4	4169.3	3647.8
30°	3688.5	3686.6	3604.3	3486.9	3351.0	3226.1	3321.4	3440.7	3724.5	4256.2	3669.0
32.5°	3951.1	3948.3	3886.3	3762.4	3590.4	3351.0	3360.2	3460.1	3735.6	4371.8	3720.8
35°	4229.4	4224.8	4197.9	4089.8	3900.2	3581.2	3487.8	3565.5	3805.9	4544.7	3822.5
37.5°	4530.8	4535.4	4554.9	4451.3	4252.5	3903.9	3701.4	3754.1	3947.4	4779.6	3988.0
40°	4975.6	4974.7	4981.1	4845.2	4653.8	4298.7	4000.1	4016.7	4184.1	5091.2	4239.6
42.5°	5782.8	5726.4	5555.3	5277.9	5085.6	4750.0	4376.4	4358.8	4473.5	5476.7	4591.9
45°	6867.4	6747.2	6303.4	5771.7	5525.8	5258.5	4839.7	4783.3	4856.3	5940.0	5026.4
47.5°	7800.4	7675.6	7047.7	6285.8	5992.7	5741.2	5382.4	5280.7	5304.8	6458.7	5577.5
50°	8117.6	8056.5	7508.2	6733.4	6444.9	6348.7	6012.1	5888.2	5854.0	7058.8	6216.5
52.5°	8007.5	8002.9	7637.7	7023.7	6859.1	6977.5	6804.6	6661.2	6535.5	7691.3	6866.5
55°	7830.9	7854.0	7690.4	7278.0	7272.4	7551.7	7888.3	7769.0	7404.7	8378.3	7426.9
57.5°	7343.6	7442.6	7660.8	7758.8	7986.3	8272.0	8790.7	8861.0	8430.1	8904.5	7892.0
60°	5958.5	6175.8	6889.6	7828.2	8906.3	9618.3	9880.0	9940.1	9271.5	9341.8	8519.8
62.5°	4229.4	4451.3	5356.5	6944.2	8920.2	11387.2	11502.7	11267.0	10198.1	9990.0	9602.6
65°	2245.1	2416.1	3155.9	5012.6	7733.8	11797.7	14340.5	13637.8	11832.8	11265.1	11001.6
67.5°	1148.4	1200.2	1494.2	2453.1	5316.8	10479.1	16884.3	17378.9	14650.3	12530.0	10934.1
69°	1016.2	1046.7	1241.8	1773.5	3404.6	8875.8	17008.2	18663.3	16125.1	12424.6	9936.4
70°	983.8	1010.7	1188.2	1605.2	2661.2	7443.5	16533.8	18550.5	16502.4	12023.3	9191.1
72.5°	835.0	858.1	1057.8	1418.4	2162.8	3694.9	13430.7	15719.2	14808.4	10015.9	6652.9
75°	558.5	634.3	1015.3	1329.7	2012.1	2099.0	8854.5	11359.4	10552.2	6755.5	3465.6
77.5°	134.1	144.2	286.6	1057.8	1840.1	1847.5	4553.9	7061.6	5759.7	2407.8	819.2
80°	72.1	69.3	80.4	209.9	1713.4	1733.7	2050.0	3427.7	2056.4	399.5	270.0
82.5°	50.9	48.1	51.8	87.8	539.1	1579.3	1483.2	1551.6	852.5	153.5	121.1
85°	18.5	17.6	28.7	79.5	169.2	908.0	1523.8	1279.7	690.7	70.3	88.8
87.5°	6.5	5.5	11.1	43.5	51.8	386.5	940.4	967.2	271.8	42.5	41.6
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°	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2
2.5°	4218.3	4161.0	4055.5	3947.4	3847.5	3727.3	3667.2	3608.0	3583.0	3573.8	3530.3
5°	4096.2	3999.1	3775.4	3550.7	3343.6	3123.5	2978.3	2861.8	2793.4	2760.1	2707.4
7.5°	3940.0	3780.9	3441.6	3094.8	2772.1	2454.0	2218.3	2037.0	1912.2	1852.1	1797.5
10°	3788.3	3576.6	3093.9	2621.4	2183.1	1761.5	1436.0	1200.2	1049.5	980.1	935.8
12.5°	3652.4	3377.8	2758.3	2160.0	1609.8	1116.1	785.0	597.3	503.9	471.6	455.9
15°	3531.3	3194.7	2441.1	1721.7	1090.2	638.0	429.0	365.2	350.4	350.4	348.6
17.5°	3416.6	3015.3	2135.0	1310.2	684.2	390.2	326.4	318.1	318.1	321.8	321.8
20°	3306.6	2844.2	1839.1	940.4	430.9	309.8	295.0	293.1	295.0	299.6	299.6
22.5°	3212.3	2688.9	1562.7	645.4	319.9	279.2	271.8	269.1	270.0	272.8	274.6
25°	3142.0	2557.6	1301.9	437.4	275.5	254.3	246.0	241.3	237.6	237.6	239.5
27.5°	3097.6	2446.6	1049.5	318.1	247.8	231.2	218.2	210.8	202.5	197.9	199.7
30°	3065.2	2341.2	812.8	259.8	221.9	205.3	188.6	176.6	164.6	159.0	160.9
32.5°	3053.2	2256.2	607.5	229.3	198.8	180.3	160.0	144.2	131.3	126.7	127.6
35°	3085.6	2188.7	444.8	207.1	180.3	157.2	134.1	116.5	106.3	103.6	104.5
37.5°	3170.7	2152.6	332.9	188.6	163.7	137.8	111.9	95.2	88.8	88.8	89.7
40°	3331.5	2151.7	267.2	175.7	148.9	119.3	92.5	80.4	76.7	78.6	79.5
42.5°	3566.4	2200.7	233.0	163.7	135.9	101.7	76.7	68.4	67.5	69.3	70.3
45°	3887.3	2290.4	214.5	153.5	122.1	85.1	64.7	59.2	59.2	62.0	62.9
47.5°	4280.2	2421.7	198.8	143.3	108.2	71.2	55.5	51.8	52.7	55.5	56.4
50°	4753.7	2587.2	183.1	132.2	98.0	59.2	48.1	45.3	46.2	49.9	50.9
52.5°	5292.7	2810.0	170.1	122.1	85.1	49.0	40.7	38.8	40.7	44.4	45.3
55°	5755.1	3009.8	154.4	113.7	68.4	40.7	33.3	33.3	35.1	39.8	40.7
57.5°	6199.8	3218.7	140.5	98.0	53.6	32.4	27.7	28.7	31.4	36.1	37.0
60°	6852.6	3572.9	123.9	82.3	40.7	25.9	23.1	24.0	27.7	32.4	33.3
62.5°	7961.3	4112.0	107.3	68.4	31.4	20.3	18.5	20.3	25.0	30.5	31.4
65°	8961.8	4331.1	87.8	57.3	24.0	15.7	15.7	18.5	24.0	29.6	30.5
67.5°	8404.2	3645.9	68.4	45.3	18.5	12.0	12.9	17.6	23.1	29.6	30.5
69°	7432.4	2981.1	58.3	36.1	15.7	11.1	12.0	17.6	23.1	28.7	29.6
70°	6675.1	2516.9	51.8	30.5	13.9	11.1	12.0	16.6	23.1	28.7	29.6
72.5°	4470.7	1359.2	41.6	22.2	12.9	10.2	10.2	16.6	22.2	27.7	28.7
75°	1921.4	375.4	33.3	15.7	11.1	9.2	9.2	15.7	21.3	26.8	28.7
77.5°	351.4	95.2	26.8	13.9	11.1	9.2	8.3	14.8	20.3	25.9	26.8
80°	139.6	47.2	21.3	12.0	10.2	8.3	7.4	13.9	19.4	25.0	25.9
82.5°	84.1	26.8	17.6	11.1	10.2	7.4	6.5	12.0	18.5	24.0	25.0
85°	68.4	18.5	13.9	11.1	9.2	7.4	5.5	11.1	16.6	23.1	24.0
87.5°	33.3	12.9	12.9	10.2	9.2	7.4	5.5	10.2	15.7	22.2	23.1
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)