

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: P193584

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193584
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-06-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 19441 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

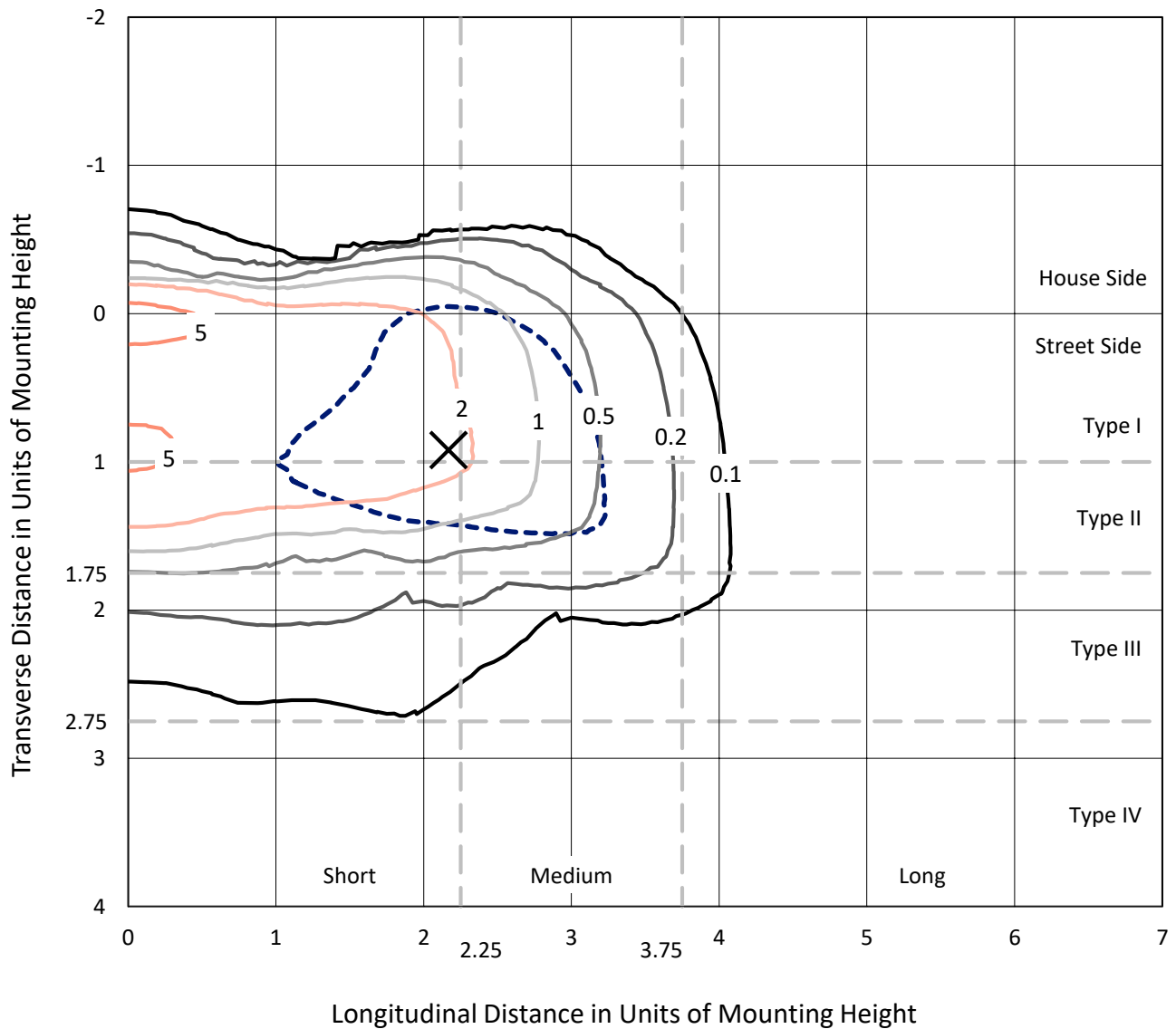


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

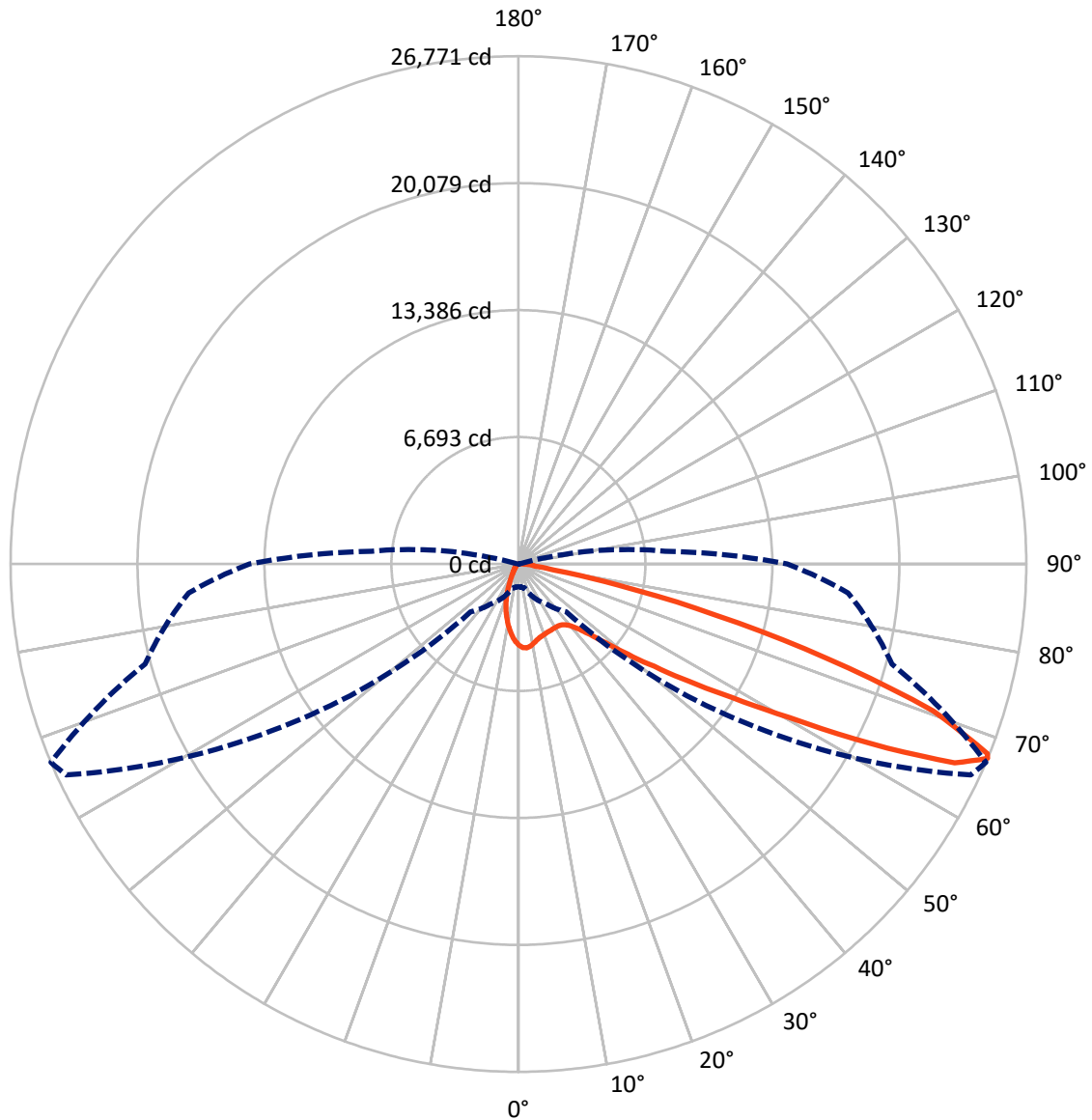


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2018.6	0.0	2018.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17422.4	0.0	17422.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	19441.0	0.0	19441.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	1.8
10°-20°	742.5	3.8
20°-30°	1079.6	5.6
30°-40°	1684.1	8.7
40°-50°	2983.4	15.3
50°-60°	4720.9	24.3
60°-70°	5407.1	27.8
70°-80°	2242.8	11.5
80°-90°	231.7	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°	19441.0	100.0
0°-180°	19441.0	100.0



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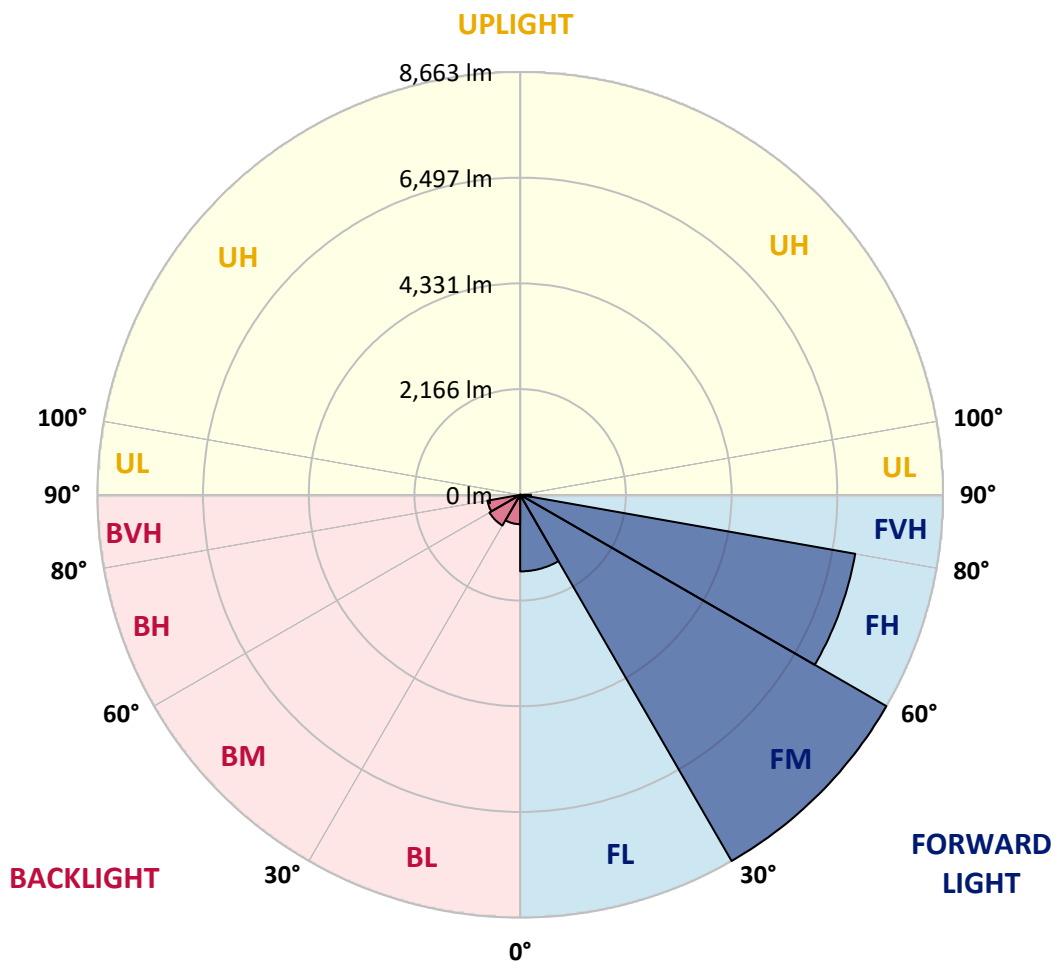
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.6	8.1			
FM (30°-60°)	8663.0	44.6			
FH (60°-80°)	6969.6	35.9			G3/7500
FVH (80°-90°)	221.2	1.1			G2/225
BL (0°-30°)	602.3	3.1	B2/1000		
BM (30°-60°)	725.5	3.7	B1/1000		
BH (60°-80°)	680.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.1			G1/100
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°	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5
2.5°	4432.6	4441.7	4440.5	4447.3	4463.2	4464.4	4448.5	4417.9	4411.1	4371.4	4302.2
5°	4087.9	4114.0	4129.8	4194.5	4267.0	4354.4	4420.1	4443.9	4440.5	4412.2	4307.9
7.5°	3694.4	3720.5	3738.6	3814.6	3911.0	4060.7	4231.9	4372.5	4385.0	4415.6	4303.3
10°	3432.5	3437.0	3461.9	3534.5	3635.4	3788.5	3992.6	4238.7	4276.1	4388.4	4292.0
12.5°	3217.0	3220.4	3253.3	3331.5	3439.3	3593.5	3807.8	4092.4	4150.3	4354.4	4289.7
15°	3063.9	3076.4	3105.9	3187.5	3302.1	3455.1	3675.1	3984.7	4053.9	4341.9	4310.1
17.5°	3012.9	3026.5	3035.6	3094.5	3198.9	3348.5	3574.2	3914.4	3992.6	4348.7	4349.8
20°	3066.2	3076.4	3056.0	3070.7	3135.4	3269.2	3489.2	3854.3	3947.3	4356.6	4400.9
22.5°	3264.6	3269.2	3213.6	3149.0	3137.6	3211.3	3422.3	3806.7	3906.5	4378.2	4461.0
25°	3604.8	3596.9	3506.2	3366.7	3235.2	3201.1	3382.6	3777.2	3886.0	4400.9	4523.3
27.5°	4015.3	4026.7	3901.9	3698.9	3448.3	3269.2	3376.9	3764.7	3877.0	4416.7	4577.7
30°	4514.2	4530.1	4387.2	4132.1	3772.6	3437.0	3429.1	3762.4	3871.3	4406.5	4582.3
32.5°	5023.4	5042.7	4930.4	4667.3	4205.8	3718.2	3547.0	3787.4	3882.6	4371.4	4556.2
35°	5556.3	5583.6	5508.7	5283.1	4793.2	4124.2	3754.5	3863.4	3935.9	4368.0	4530.1
37.5°	6292.3	6317.2	6176.6	5937.4	5504.2	4668.5	4087.9	4006.2	4061.8	4422.4	4536.9
40°	7391.1	7387.7	7024.8	6658.5	6285.5	5360.2	4556.2	4264.8	4293.1	4586.8	4620.8
42.5°	8588.5	8582.9	8046.5	7489.7	7152.9	6211.8	5171.9	4711.6	4692.3	4889.6	4838.6
45°	9511.6	9510.4	9072.7	8445.6	8197.3	7189.2	5968.0	5333.0	5303.5	5381.7	5240.0
47.5°	9905.0	9911.8	9691.9	9250.8	9355.1	8511.4	6971.5	6233.3	6189.1	6157.3	5941.9
50°	9598.9	9612.5	9630.6	9544.4	10204.4	10288.3	8317.5	7502.2	7480.7	7338.9	7002.1
52.5°	8598.7	8667.9	8881.1	9154.4	10499.2	11993.8	10427.8	9078.4	8962.7	8811.9	8441.1
55°	6913.7	6989.7	7394.5	8057.8	10060.4	13114.1	13385.1	11110.4	10917.7	10467.5	9932.3
57.5°	4575.5	4693.4	5280.8	6124.5	8785.8	13294.4	16335.7	13930.6	13259.3	12026.7	11423.4
60°	2520.8	2634.2	3271.4	4035.7	6345.6	12403.1	18320.1	17602.3	16416.2	13769.5	13234.3
62.5°	1552.4	1613.6	2084.2	2795.2	3805.5	9789.4	18730.6	22216.3	20843.1	16013.6	15421.7
65°	1236.0	1262.1	1492.3	2284.9	2728.3	5822.8	17405.0	25733.8	25275.7	18730.6	17380.0
67°	1199.7	1209.9	1318.8	1961.7	2571.8	3569.7	14581.4	26306.5	26771.4	20374.8	17441.3
67.5°	1207.7	1219.0	1322.2	1872.1	2567.3	3280.5	13608.5	26080.8	26668.2	20505.2	17170.2
70°	1164.6	1199.7	1513.8	1871.0	2441.4	2726.0	8149.7	22597.3	23208.5	19052.6	14569.0
72.5°	412.8	415.0	654.3	1513.8	2654.6	2755.5	4092.4	16565.9	17018.3	14574.6	10503.8
75°	244.9	208.6	217.7	430.9	2536.6	2676.1	2360.9	10585.4	10754.4	8351.5	5319.4
77.5°	169.0	147.4	151.9	190.5	966.1	2638.7	1875.6	5520.1	5339.8	2929.0	1132.8
80°	96.4	85.0	90.7	166.7	351.5	2461.8	1769.0	2238.4	1908.4	496.7	313.0
82.5°	51.0	43.1	52.2	137.2	244.9	1534.2	1772.4	1081.8	857.3	167.8	213.2
85°	18.1	14.7	24.9	94.1	163.3	470.6	1643.1	909.4	714.4	81.6	162.2
87.5°	3.4	3.4	10.2	38.6	65.8	144.0	971.8	539.8	361.7	48.8	111.1
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°	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5
2.5°	4273.9	4225.1	4159.3	4078.8	3983.6	3899.6	3837.3	3772.6	3759.0	3736.4	3733.0
5°	4245.5	4161.6	3998.3	3811.2	3611.6	3431.3	3285.0	3154.6	3096.8	3046.9	3041.2
7.5°	4203.5	4077.7	3799.9	3498.2	3186.4	2902.9	2662.5	2492.4	2335.9	2261.1	2249.8
10°	4154.8	3974.5	3576.5	3158.0	2727.1	2326.9	1969.7	1670.3	1488.9	1381.1	1367.5
12.5°	4109.4	3873.6	3348.5	2805.4	2232.7	1697.5	1238.3	952.5	762.0	684.9	675.8
15°	4087.9	3791.9	3135.4	2444.8	1715.7	1080.7	677.0	523.9	461.5	443.4	442.2
17.5°	4085.6	3722.8	2926.7	2071.7	1202.0	628.2	441.1	402.6	390.1	385.5	385.5
20°	4084.5	3657.0	2718.1	1685.0	763.1	418.4	367.4	358.3	349.3	343.6	343.6
22.5°	4097.0	3598.0	2500.4	1290.4	480.8	339.1	323.2	314.1	302.8	294.8	293.7
25°	4109.4	3552.7	2278.1	918.5	348.1	294.8	279.0	266.5	250.6	240.4	239.3
27.5°	4111.7	3496.0	2040.0	614.6	291.4	257.4	237.0	217.7	199.6	189.4	188.2
30°	4077.7	3400.7	1775.8	415.0	257.4	223.4	196.2	175.8	158.8	150.8	150.8
32.5°	4010.8	3282.8	1485.5	313.0	229.1	191.6	162.2	142.9	131.5	128.1	127.0
35°	3950.7	3155.8	1187.2	265.3	205.2	162.2	132.7	120.2	113.4	112.3	111.1
37.5°	3915.5	3053.7	907.2	240.4	182.6	136.1	112.3	103.2	99.8	97.5	98.7
40°	3942.7	2968.7	670.2	220.0	159.9	113.4	95.3	90.7	87.3	86.2	86.2
42.5°	4061.8	2953.9	497.8	201.8	138.3	94.1	82.8	79.4	77.1	76.0	77.1
45°	4374.8	3044.7	386.7	184.8	116.8	79.4	70.3	69.2	68.0	68.0	68.0
47.5°	4845.4	3231.8	322.0	165.6	97.5	68.0	61.2	60.1	59.0	60.1	60.1
50°	5642.5	3574.2	288.0	146.3	80.5	57.8	52.2	52.2	52.2	52.2	53.3
52.5°	6854.7	4247.8	265.3	127.0	65.8	48.8	44.2	44.2	45.4	45.4	46.5
55°	8205.2	5141.3	244.9	107.7	55.6	40.8	36.3	37.4	38.6	39.7	39.7
57.5°	9670.3	6131.3	227.9	88.4	47.6	32.9	30.6	31.8	32.9	35.2	35.2
60°	11438.1	7202.8	203.0	69.2	39.7	26.1	23.8	26.1	29.5	31.8	32.9
62.5°	13379.5	8239.3	171.2	54.4	32.9	20.4	19.3	23.8	28.3	30.6	31.8
65°	14706.2	8564.7	131.5	44.2	24.9	14.7	15.9	21.5	27.2	30.6	30.6
67°	14168.7	7765.3	107.7	37.4	20.4	11.3	14.7	21.5	27.2	29.5	30.6
67.5°	13795.6	7452.3	103.2	36.3	19.3	11.3	14.7	21.5	27.2	30.6	30.6
70°	11225.0	5598.3	86.2	27.2	15.9	10.2	12.5	20.4	26.1	29.5	29.5
72.5°	7799.3	3451.7	77.1	19.3	13.6	9.1	11.3	19.3	24.9	28.3	29.5
75°	3708.0	1249.6	65.8	14.7	12.5	7.9	10.2	19.3	24.9	28.3	28.3
77.5°	756.3	290.3	53.3	12.5	10.2	7.9	9.1	18.1	23.8	27.2	27.2
80°	248.3	112.3	39.7	11.3	10.2	7.9	9.1	17.0	23.8	26.1	27.2
82.5°	179.2	56.7	26.1	11.3	10.2	7.9	7.9	17.0	22.7	26.1	26.1
85°	137.2	39.7	17.0	11.3	10.2	7.9	7.9	15.9	21.5	24.9	24.9
87.5°	90.7	15.9	13.6	11.3	10.2	7.9	7.9	15.9	20.4	23.8	24.9
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)