

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: P269467

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269467
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-07-LED-E1-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19962.4 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 226
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

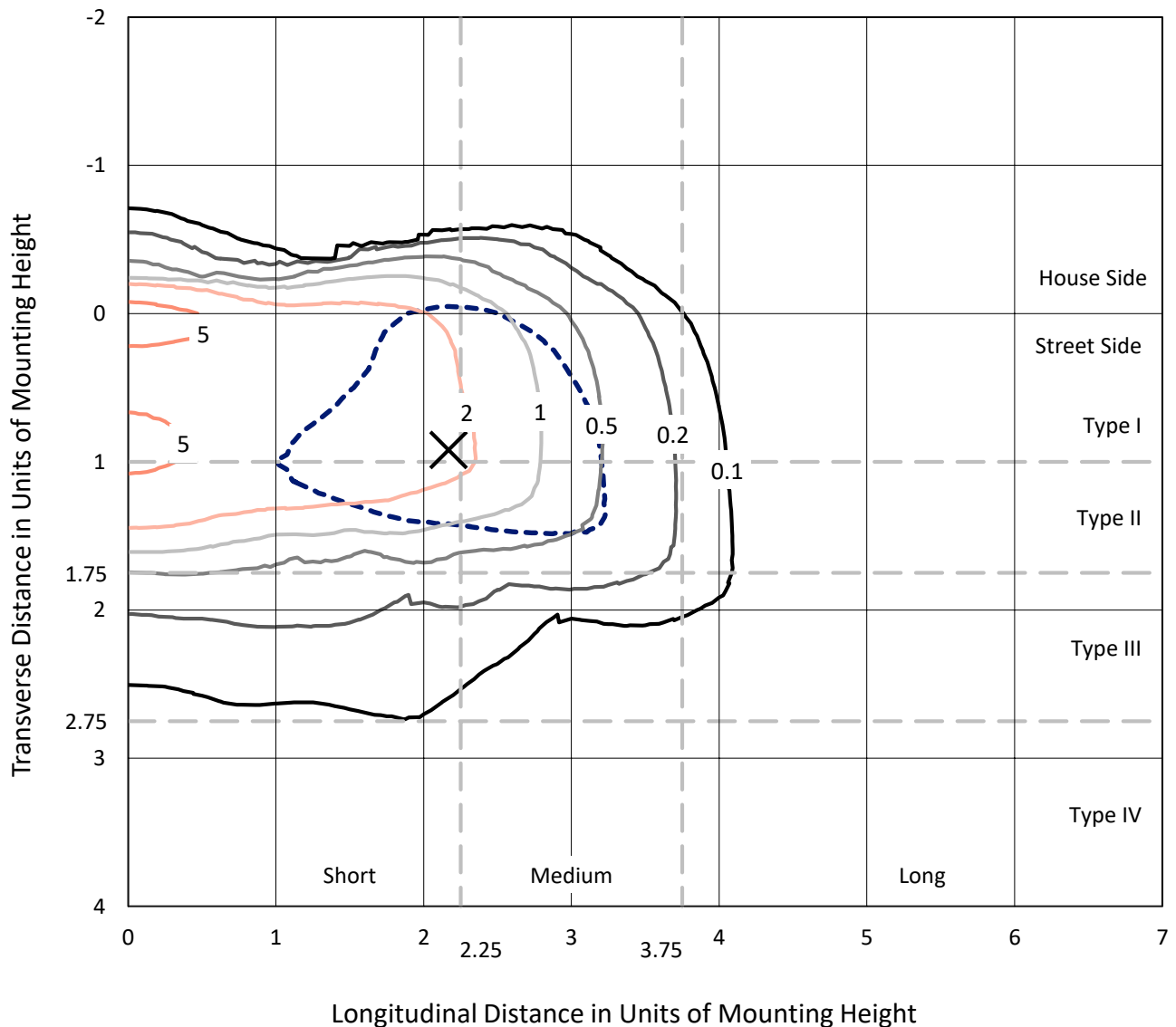


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

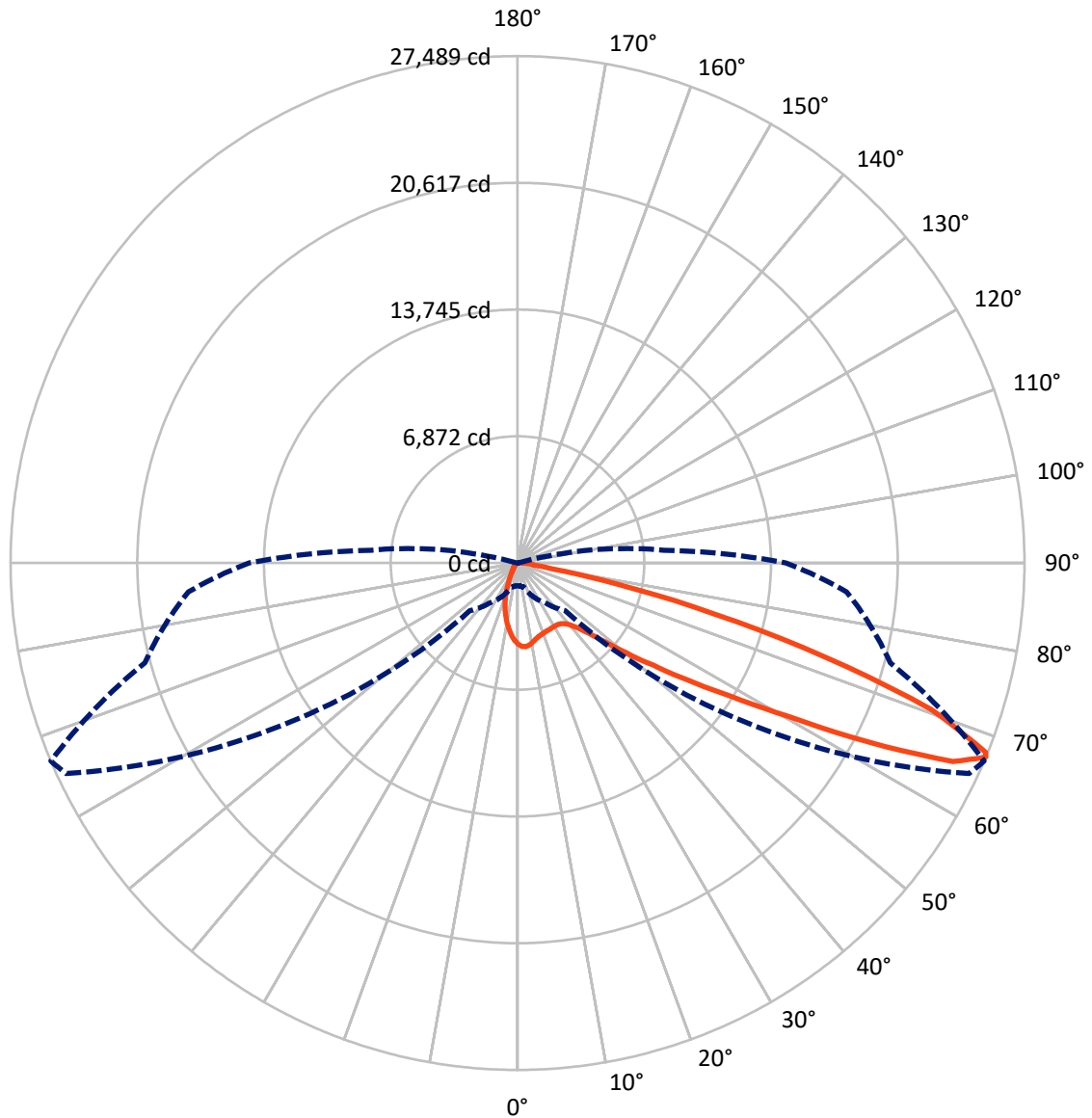


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Semi-Cutoff

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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	2072.7	0.0	2072.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17889.7	0.0	17889.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	19962.4	0.0	19962.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	1.8
10°-20°	762.4	3.8
20°-30°	1108.5	5.6
30°-40°	1729.3	8.7
40°-50°	3063.4	15.3
50°-60°	4847.5	24.3
60°-70°	5552.1	27.8
70°-80°	2303.0	11.5
80°-90°	237.9	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°	19962.4	100.0
0°-180°	19962.4	100.0



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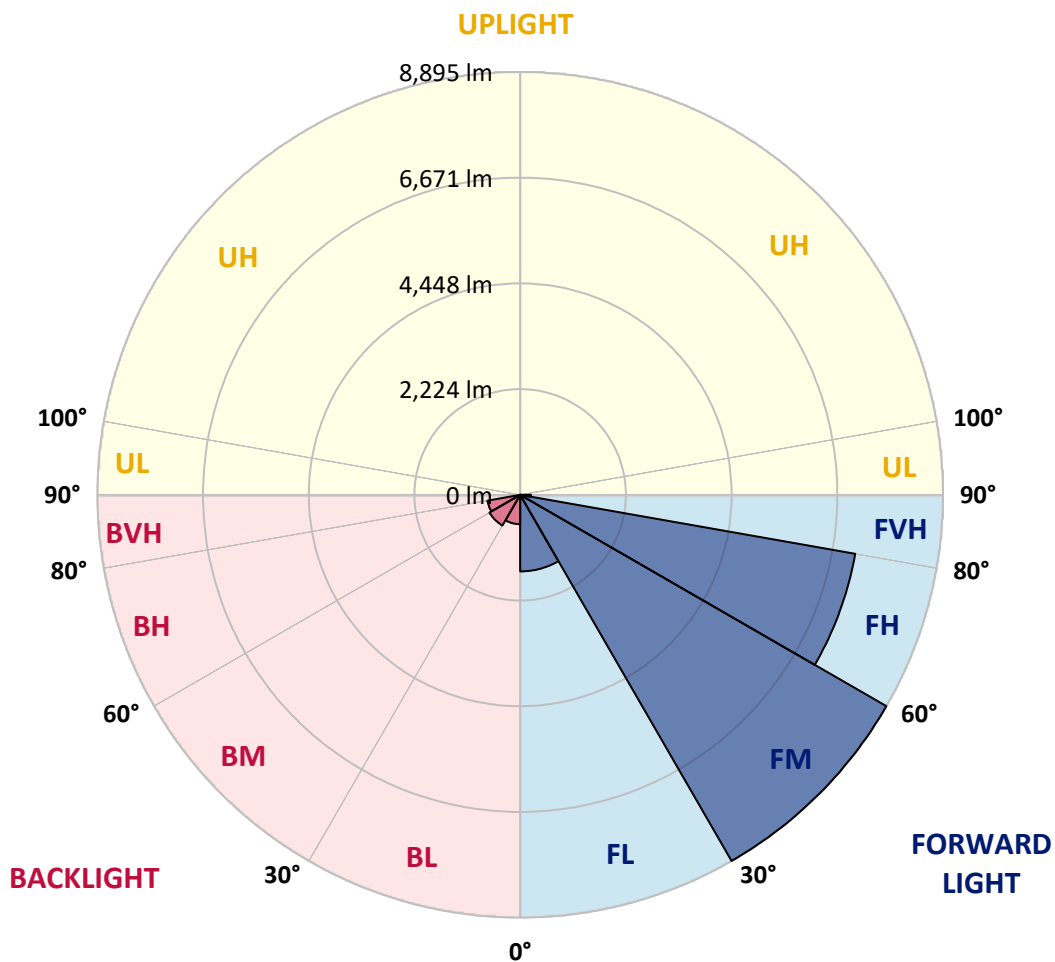
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.7	8.1			
FM (30°-60°)	8895.3	44.6			
FH (60°-80°)	7156.5	35.9			G3/7500
FVH (80°-90°)	227.2	1.1			G3/500
BL (0°-30°)	618.5	3.1	B2/1000		
BM (30°-60°)	744.9	3.7	B1/1000		
BH (60°-80°)	698.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.7	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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4551.5	4560.8	4559.6	4566.7	4583.0	4584.1	4567.8	4536.4	4529.3	4488.7	4417.5
5°	4197.5	4224.3	4240.5	4307.0	4381.5	4471.1	4538.6	4563.1	4559.6	4530.5	4423.4
7.5°	3793.5	3820.2	3838.8	3916.9	4015.9	4169.6	4345.5	4489.8	4502.6	4534.0	4418.8
10°	3524.5	3529.3	3554.9	3629.3	3732.9	3890.1	4099.8	4352.4	4390.7	4506.1	4407.1
12.5°	3303.2	3306.8	3340.5	3420.8	3531.4	3689.9	3910.0	4202.2	4261.6	4471.1	4404.7
15°	3146.1	3158.9	3189.2	3273.1	3390.7	3547.8	3773.7	4091.6	4162.6	4458.3	4425.7
17.5°	3093.8	3107.6	3116.9	3177.6	3284.7	3438.4	3670.0	4019.3	4099.8	4465.4	4466.5
20°	3148.4	3158.9	3137.9	3153.1	3219.4	3356.8	3582.7	3957.7	4053.2	4473.5	4518.8
22.5°	3352.1	3356.8	3299.7	3233.4	3221.9	3297.5	3514.0	3908.7	4011.2	4495.6	4580.5
25°	3701.5	3693.3	3600.1	3456.9	3321.9	3287.0	3473.2	3878.5	3990.2	4518.8	4644.6
27.5°	4123.0	4134.5	4006.5	3798.2	3540.8	3356.8	3467.5	3865.6	3981.0	4535.2	4700.6
30°	4635.3	4651.7	4504.9	4243.0	3873.9	3529.3	3521.0	3863.3	3975.1	4524.8	4705.1
32.5°	5158.1	5177.9	5062.6	4792.5	4318.6	3817.9	3642.1	3888.9	3986.8	4488.7	4678.5
35°	5705.3	5733.3	5656.4	5424.8	4921.8	4234.8	3855.2	3966.9	4041.5	4485.1	4651.7
37.5°	6461.0	6486.7	6342.3	6096.5	5651.7	4793.6	4197.5	4113.7	4170.7	4541.0	4658.6
40°	7589.3	7585.7	7213.2	6837.1	6454.1	5503.9	4678.5	4379.1	4408.3	4709.9	4744.8
42.5°	8818.8	8813.0	8262.3	7690.6	7344.7	6378.3	5310.6	4837.9	4818.1	5020.6	4968.3
45°	9766.6	9765.5	9316.1	8672.1	8417.2	7382.0	6128.0	5476.0	5445.6	5526.1	5380.5
47.5°	10170.7	10177.6	9951.8	9498.9	9605.9	8739.7	7158.5	6400.5	6355.1	6322.5	6101.3
50°	9856.4	9870.2	9888.9	9800.4	10478.1	10564.2	8540.5	7703.3	7681.2	7535.7	7189.9
52.5°	8829.4	8900.3	9119.2	9399.9	10780.7	12315.5	10707.4	9321.8	9203.0	9048.2	8667.4
55°	7099.0	7177.1	7592.7	8273.8	10330.1	13465.9	13744.1	11408.4	11210.5	10748.2	10198.5
57.5°	4698.1	4819.2	5422.3	6288.7	9021.5	13651.0	16773.7	14304.2	13614.8	12349.2	11729.8
60°	2588.3	2704.7	3359.2	4143.9	6515.8	12735.7	18811.3	18074.3	16856.3	14138.9	13589.2
62.5°	1594.0	1656.8	2140.1	2870.2	3907.5	10051.9	19232.8	22812.1	21402.1	16443.0	15835.2
65°	1269.1	1296.0	1532.2	2346.2	2801.5	5978.9	17871.7	26424.0	25953.6	19232.8	17846.1
67°	1231.8	1242.4	1354.1	2014.3	2640.7	3665.4	14972.5	27011.9	27489.4	20921.2	17909.0
67.5°	1240.0	1251.7	1357.7	1922.4	2636.0	3368.5	13973.5	26780.2	27383.4	21055.1	17630.8
70°	1195.9	1231.8	1554.3	1921.1	2506.9	2799.1	8368.3	23203.3	23830.9	19563.6	14959.7
72.5°	423.8	426.2	671.8	1554.3	2725.7	2829.4	4202.2	17010.0	17474.6	14965.6	10785.4
75°	251.4	214.2	223.6	442.4	2604.6	2747.8	2424.2	10869.3	11042.8	8575.5	5462.1
77.5°	173.6	151.4	156.0	195.7	992.1	2709.5	1925.8	5668.0	5483.0	3007.5	1163.1
80°	99.0	87.3	93.2	171.1	360.9	2527.8	1816.5	2298.5	1959.7	510.0	321.4
82.5°	52.5	44.2	53.5	140.9	251.4	1575.4	1819.8	1110.8	880.2	172.4	218.8
85°	18.7	15.1	25.6	96.7	167.7	483.2	1687.1	933.8	733.6	83.8	166.5
87.5°	3.6	3.6	10.5	39.5	67.6	148.0	997.8	554.3	371.4	50.0	114.2
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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4388.5	4338.5	4270.8	4188.2	4090.4	4004.3	3940.1	3873.9	3859.8	3836.5	3833.1
5°	4359.4	4273.1	4105.6	3913.3	3708.5	3523.3	3373.1	3239.3	3179.9	3128.6	3122.8
7.5°	4316.3	4187.0	3901.8	3592.1	3271.8	2980.8	2733.9	2559.2	2398.6	2321.7	2310.1
10°	4266.2	4081.1	3672.5	3242.7	2800.2	2389.2	2022.4	1715.1	1528.7	1418.2	1404.2
12.5°	4219.6	3977.4	3438.4	2880.7	2292.7	1743.0	1271.6	978.1	782.5	703.3	694.0
15°	4197.5	3893.7	3219.4	2510.4	1761.7	1109.6	695.1	537.9	473.9	455.4	454.2
17.5°	4195.2	3822.6	3005.2	2127.2	1234.2	645.1	452.9	413.3	400.6	396.0	396.0
20°	4193.9	3755.1	2790.9	1730.2	783.6	429.7	377.3	367.9	358.7	352.9	352.9
22.5°	4206.9	3694.5	2567.4	1325.0	493.7	348.2	331.8	322.5	310.9	302.6	301.7
25°	4219.6	3647.9	2339.1	943.1	357.4	302.6	286.4	273.7	257.4	246.9	245.6
27.5°	4221.9	3589.6	2094.7	631.1	299.2	264.3	243.4	223.6	205.0	194.5	193.2
30°	4187.0	3491.9	1823.4	426.2	264.3	229.3	201.4	180.5	163.0	154.9	154.9
32.5°	4118.3	3370.8	1525.3	321.4	235.1	196.8	166.5	146.8	135.0	131.6	130.4
35°	4056.7	3240.4	1219.1	272.5	210.7	166.5	136.3	123.4	116.4	115.3	114.2
37.5°	4020.5	3135.7	931.5	246.9	187.4	139.7	115.3	106.0	102.4	100.2	101.2
40°	4048.5	3048.3	688.1	225.8	164.2	116.4	97.8	93.2	89.7	88.6	88.6
42.5°	4170.7	3033.1	511.1	207.2	142.0	96.7	85.0	81.4	79.2	78.1	79.2
45°	4492.1	3126.3	397.1	189.8	120.0	81.4	72.3	71.1	69.9	69.9	69.9
47.5°	4975.4	3318.3	330.7	170.0	100.2	69.9	62.9	61.8	60.5	61.8	61.8
50°	5793.9	3670.0	295.7	150.1	82.6	59.4	53.5	53.5	53.5	53.5	54.7
52.5°	7038.5	4361.7	272.5	130.4	67.6	50.0	45.5	45.5	46.6	46.6	47.7
55°	8425.4	5279.2	251.4	110.6	57.0	42.0	37.3	38.4	39.5	40.8	40.8
57.5°	9929.7	6295.7	234.1	90.8	48.9	33.7	31.4	32.6	33.7	36.1	36.1
60°	11744.9	7395.9	208.4	71.1	40.8	26.8	24.4	26.8	30.3	32.6	33.7
62.5°	13738.3	8460.1	175.8	55.9	33.7	21.0	19.9	24.4	29.1	31.4	32.6
65°	15100.6	8794.3	135.0	45.5	25.6	15.1	16.3	22.1	27.9	31.4	31.4
67°	14548.6	7973.5	110.6	38.4	21.0	11.7	15.1	22.1	27.9	30.3	31.4
67.5°	14165.6	7652.1	106.0	37.3	19.9	11.7	15.1	22.1	27.9	31.4	31.4
70°	11526.0	5748.4	88.6	27.9	16.3	10.5	12.8	21.0	26.8	30.3	30.3
72.5°	8008.5	3544.4	79.2	19.9	14.0	9.3	11.7	19.9	25.6	29.1	30.3
75°	3807.5	1283.0	67.6	15.1	12.8	8.2	10.5	19.9	25.6	29.1	29.1
77.5°	776.7	298.1	54.7	12.8	10.5	8.2	9.3	18.7	24.4	27.9	27.9
80°	254.9	115.3	40.8	11.7	10.5	8.2	9.3	17.4	24.4	26.8	27.9
82.5°	184.0	58.2	26.8	11.7	10.5	8.2	8.2	17.4	23.3	26.8	26.8
85°	140.9	40.8	17.4	11.7	10.5	8.2	8.2	16.3	22.1	25.6	25.6
87.5°	93.2	16.3	14.0	11.7	10.5	8.2	8.2	16.3	21.0	24.4	25.6
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)