

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: P193576

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193576
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-08-LED-E1-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 21244 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

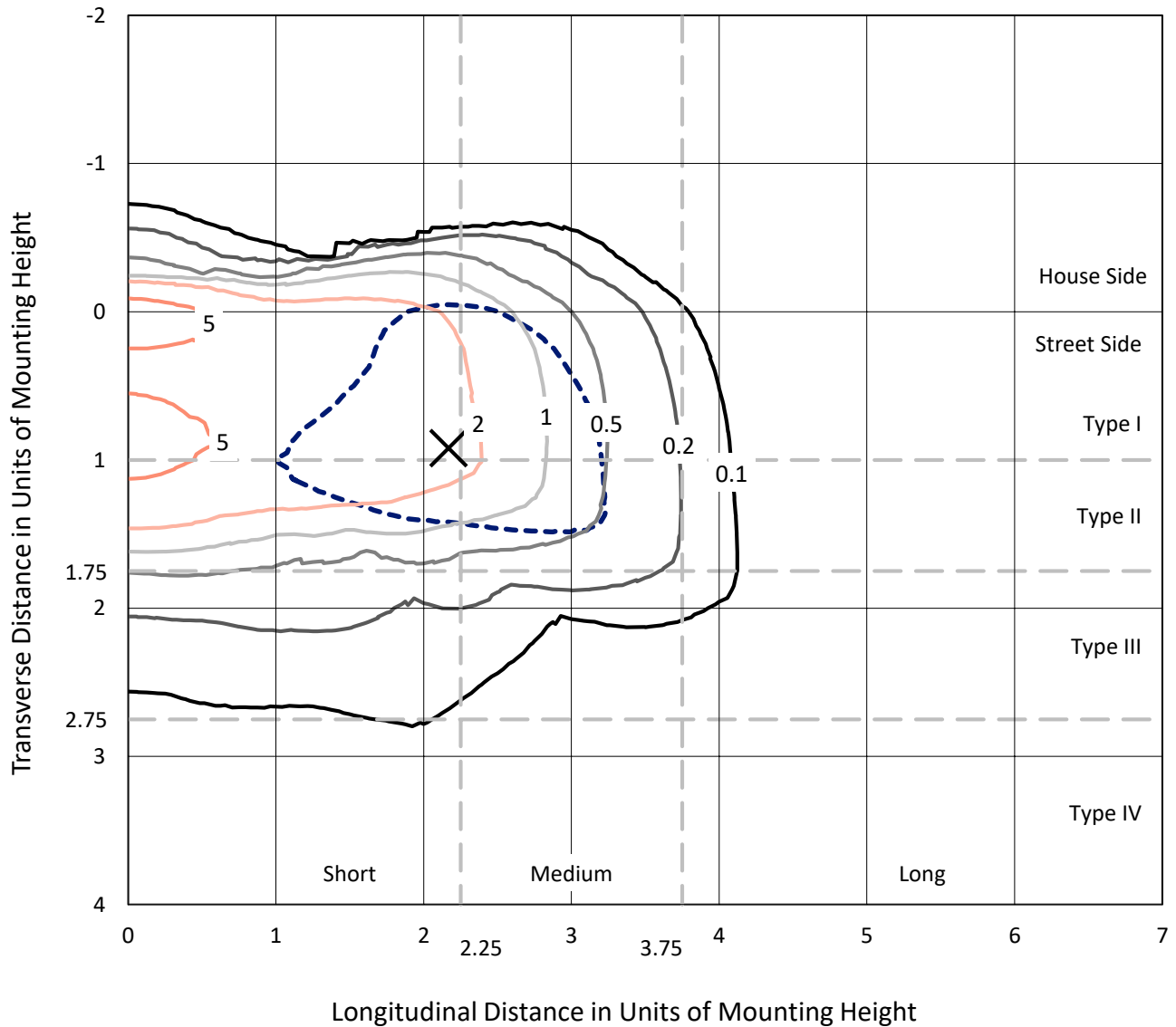


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

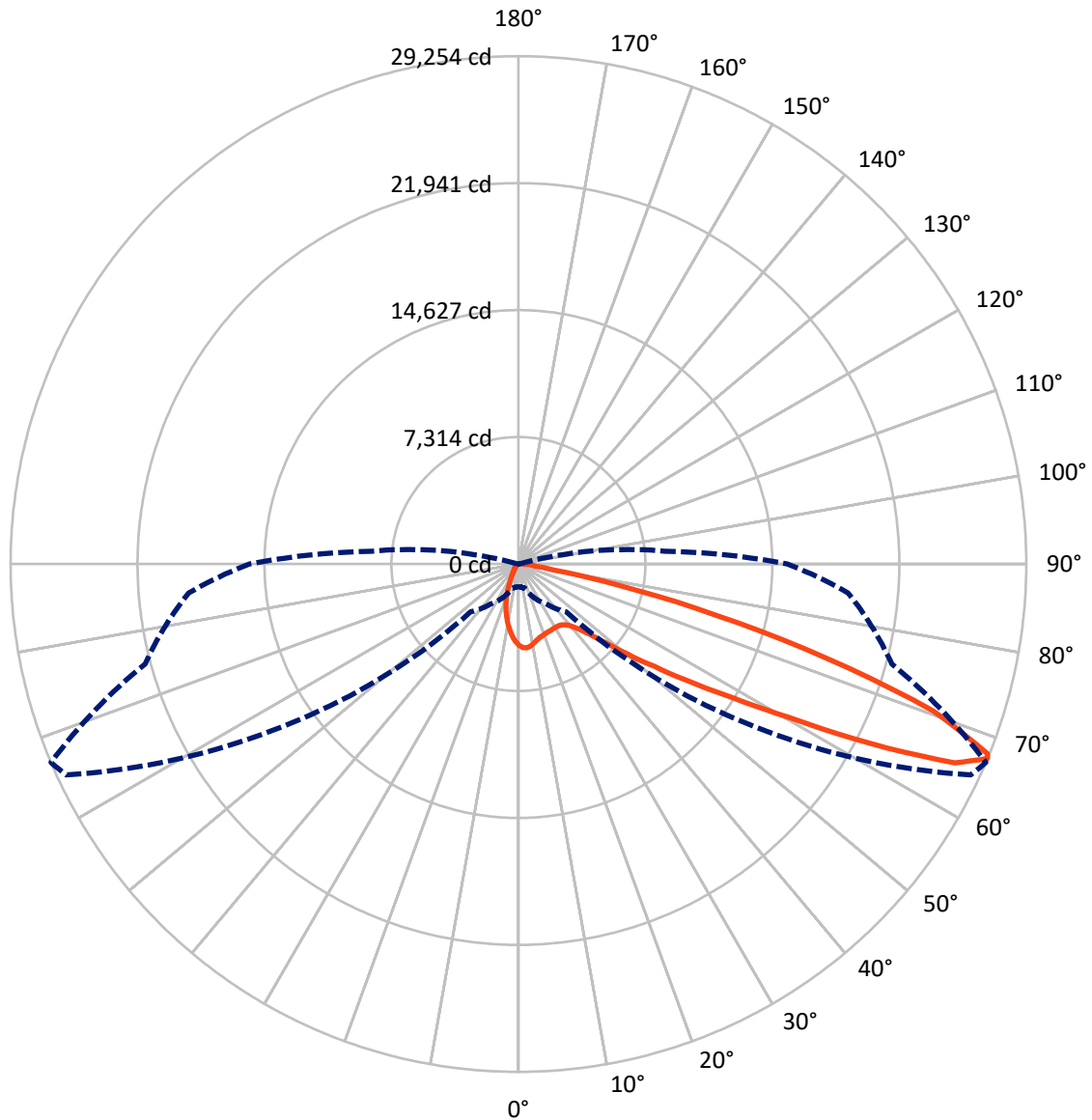


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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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	2205.8	0.0	2205.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19038.2	0.0	19038.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	21244.0	0.0	21244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	1.8
10°-20°	811.4	3.8
20°-30°	1179.7	5.6
30°-40°	1840.3	8.7
40°-50°	3260.1	15.3
50°-60°	5158.7	24.3
60°-70°	5908.6	27.8
70°-80°	2450.8	11.5
80°-90°	253.2	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°	21244.0	100.0
0°-180°	21244.0	100.0



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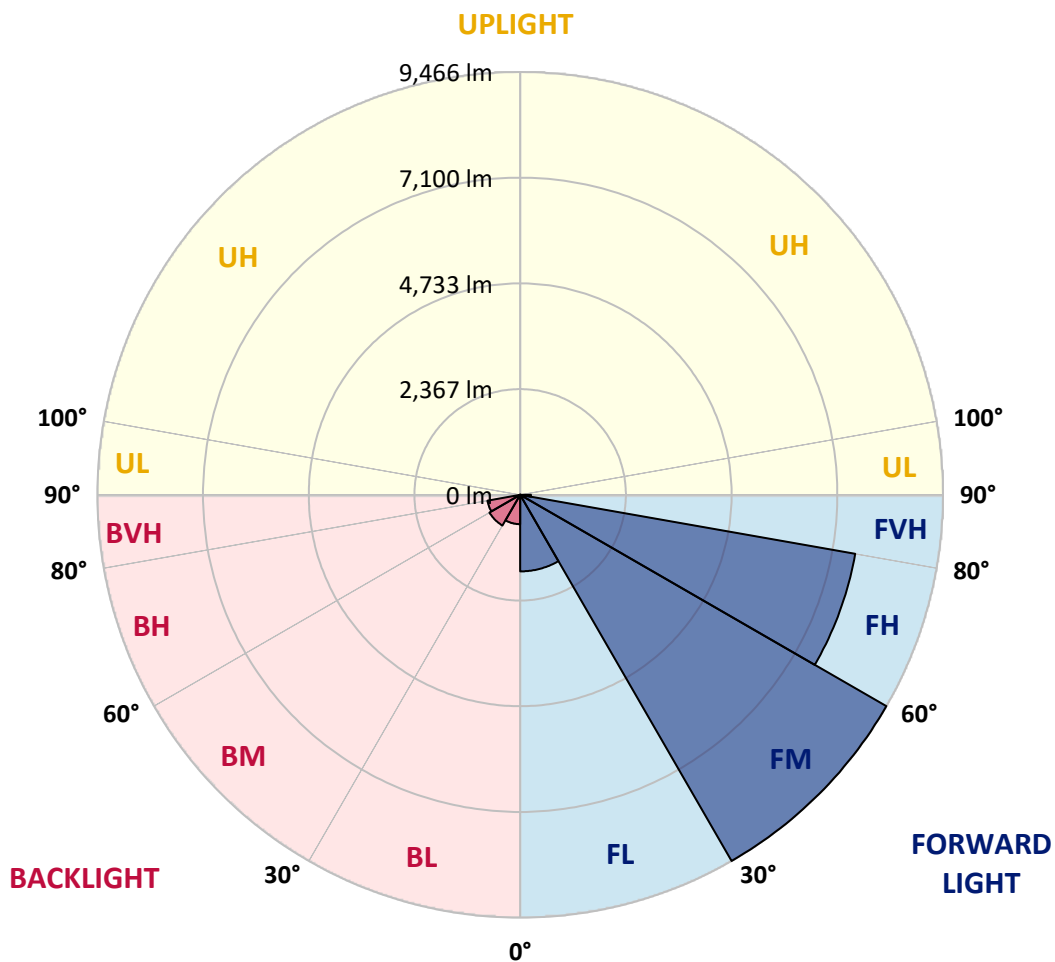
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.1	8.1			
FM (30°-60°)	9466.4	44.6			
FH (60°-80°)	7616.0	35.9			G4/12000
FVH (80°-90°)	241.8	1.1			G3/500
BL (0°-30°)	658.2	3.1	B2/1000		
BM (30°-60°)	792.7	3.7	B1/1000		
BH (60°-80°)	743.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1
2.5°	4843.7	4853.6	4852.4	4859.8	4877.1	4878.4	4861.0	4827.6	4820.1	4776.8	4701.2
5°	4467.0	4495.5	4512.8	4583.5	4662.8	4758.2	4830.1	4856.1	4852.4	4821.4	4707.4
7.5°	4037.0	4065.5	4085.4	4168.4	4273.7	4437.3	4624.4	4778.0	4791.7	4825.1	4702.4
10°	3750.8	3755.8	3783.0	3862.3	3972.6	4139.9	4362.9	4631.8	4672.7	4795.4	4690.0
12.5°	3515.4	3519.1	3555.0	3640.5	3758.2	3926.7	4160.9	4472.0	4535.2	4758.2	4687.6
15°	3348.1	3361.7	3393.9	3483.1	3608.3	3775.6	4016.0	4354.2	4429.8	4744.6	4709.9
17.5°	3292.3	3307.2	3317.1	3381.5	3495.5	3659.1	3905.7	4277.4	4362.9	4752.0	4753.2
20°	3350.6	3361.7	3339.4	3355.5	3426.1	3572.4	3812.8	4211.7	4313.4	4760.7	4809.0
22.5°	3567.4	3572.4	3511.6	3441.0	3428.6	3509.2	3739.6	4159.7	4268.7	4784.2	4874.7
25°	3939.1	3930.5	3831.3	3678.9	3535.2	3498.0	3696.3	4127.5	4246.4	4809.0	4942.8
27.5°	4387.7	4400.1	4263.8	4042.0	3768.1	3572.4	3690.1	4113.9	4236.5	4826.3	5002.3
30°	4932.9	4950.3	4794.1	4515.3	4122.5	3755.8	3747.1	4111.4	4230.3	4815.2	5007.3
32.5°	5489.3	5510.3	5387.7	5100.2	4595.9	4063.1	3875.9	4138.6	4242.7	4776.8	4978.8
35°	6071.7	6101.4	6019.6	5773.0	5237.7	4506.7	4102.7	4221.7	4301.0	4773.1	4950.3
37.5°	6875.8	6903.1	6749.4	6488.0	6014.7	5101.4	4467.0	4377.8	4438.5	4832.5	4957.7
40°	8076.5	8072.8	7676.3	7276.1	6868.4	5857.3	4978.8	4660.3	4691.3	5012.2	5049.4
42.5°	9385.0	9378.8	8792.7	8184.3	7816.3	6787.9	5651.6	5148.5	5127.4	5343.1	5287.3
45°	10393.7	10392.4	9914.1	9228.9	8957.5	7856.0	6521.5	5827.5	5795.3	5880.8	5725.9
47.5°	10823.7	10831.1	10590.7	10108.7	10222.7	9300.8	7618.1	6811.4	6763.1	6728.4	6493.0
50°	10489.1	10504.0	10523.8	10429.6	11150.8	11242.5	9088.9	8198.0	8174.4	8019.5	7651.5
52.5°	9396.2	9471.8	9704.7	10003.4	11472.9	13106.1	11394.9	9920.3	9793.9	9629.1	9224.0
55°	7554.9	7637.9	8080.3	8805.1	10993.4	14330.3	14626.5	12140.8	11930.2	11438.3	10853.4
57.5°	4999.8	5128.7	5770.5	6692.4	9600.6	14527.4	17850.7	15222.5	14488.9	13142.0	12482.8
60°	2754.5	2878.5	3574.8	4410.0	6934.1	13553.4	20019.1	19234.8	17938.6	15046.6	14461.7
62.5°	1696.3	1763.3	2277.5	3054.4	4158.5	10697.3	20467.7	24276.7	22776.1	17498.8	16851.9
65°	1350.6	1379.1	1630.7	2496.8	2981.3	6362.8	19019.1	28120.4	27619.8	20467.7	18991.9
67°	1311.0	1322.1	1441.1	2143.7	2810.3	3900.7	15933.8	28746.2	29254.2	22264.4	19058.8
67.5°	1319.7	1332.0	1444.8	2045.8	2805.4	3584.8	14870.6	28499.6	29141.5	22406.9	18762.7
70°	1272.6	1311.0	1654.2	2044.5	2667.8	2978.8	8905.5	24693.0	25360.9	20819.6	15920.1
72.5°	451.0	453.5	715.0	1654.2	2900.8	3011.0	4472.0	18102.2	18596.6	15926.3	11477.9
75°	267.6	228.0	237.9	470.9	2771.9	2924.3	2579.8	11567.1	11751.7	9126.1	5812.7
77.5°	184.6	161.1	166.0	208.2	1055.7	2883.4	2049.5	6032.0	5835.0	3200.6	1237.9
80°	105.3	92.9	99.1	182.1	384.1	2690.1	1933.0	2446.0	2085.4	542.7	342.0
82.5°	55.8	47.1	57.0	149.9	267.6	1676.5	1936.7	1182.1	936.8	183.4	233.0
85°	19.8	16.1	27.3	102.8	178.4	514.2	1795.5	993.8	780.6	89.2	177.2
87.5°	3.7	3.7	11.2	42.1	71.9	157.4	1061.9	589.8	395.3	53.3	121.4
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°	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1	4685.1
2.5°	4670.2	4616.9	4545.1	4457.1	4353.0	4261.3	4193.2	4122.5	4107.7	4082.9	4079.2
5°	4639.2	4547.5	4369.1	4164.7	3946.6	3749.6	3589.7	3447.2	3384.0	3329.5	3323.3
7.5°	4593.4	4455.9	4152.3	3822.7	3481.9	3172.1	2909.4	2723.6	2552.6	2470.8	2458.4
10°	4540.1	4343.1	3908.2	3450.9	2980.1	2542.7	2152.3	1825.2	1627.0	1509.2	1494.4
12.5°	4490.5	4232.8	3659.1	3065.6	2439.8	1855.0	1353.1	1040.9	832.7	748.4	738.5
15°	4467.0	4143.6	3426.1	2671.5	1874.8	1180.9	739.8	572.5	504.3	484.5	483.3
17.5°	4464.5	4068.0	3198.2	2263.9	1313.5	686.5	482.0	439.9	426.3	421.3	421.3
20°	4463.3	3996.1	2970.2	1841.3	833.9	457.2	401.5	391.6	381.6	375.5	375.5
22.5°	4476.9	3931.7	2732.2	1410.1	525.4	370.5	353.1	343.2	330.8	322.2	320.9
25°	4490.5	3882.1	2489.4	1003.7	380.4	322.2	304.8	291.2	273.8	262.7	261.5
27.5°	4493.0	3820.2	2229.2	671.6	318.5	281.3	259.0	237.9	218.1	206.9	205.7
30°	4455.9	3716.1	1940.5	453.5	281.3	244.1	214.4	192.1	173.5	164.8	164.8
32.5°	4382.7	3587.2	1623.2	342.0	250.3	209.4	177.2	156.1	143.7	140.0	138.8
35°	4317.1	3448.5	1297.4	290.0	224.3	177.2	145.0	131.3	123.9	122.7	121.4
37.5°	4278.7	3336.9	991.3	262.7	199.5	148.7	122.7	112.8	109.0	106.6	107.8
40°	4308.4	3244.0	732.3	240.4	174.7	123.9	104.1	99.1	95.4	94.2	94.2
42.5°	4438.5	3227.9	544.0	220.6	151.2	102.8	90.5	86.7	84.3	83.0	84.3
45°	4780.5	3327.0	422.5	202.0	127.6	86.7	76.8	75.6	74.3	74.3	74.3
47.5°	5294.7	3531.5	351.9	180.9	106.6	74.3	66.9	65.7	64.4	65.7	65.7
50°	6165.8	3905.7	314.7	159.8	88.0	63.2	57.0	57.0	57.0	57.0	58.2
52.5°	7490.4	4641.7	290.0	138.8	71.9	53.3	48.3	48.3	49.6	49.6	50.8
55°	8966.2	5618.1	267.6	117.7	60.7	44.6	39.7	40.9	42.1	43.4	43.4
57.5°	10567.2	6699.9	249.1	96.7	52.0	35.9	33.5	34.7	35.9	38.4	38.4
60°	12498.9	7870.8	221.8	75.6	43.4	28.5	26.0	28.5	32.2	34.7	35.9
62.5°	14620.3	9003.4	187.1	59.5	35.9	22.3	21.1	26.0	31.0	33.5	34.7
65°	16070.1	9359.0	143.7	48.3	27.3	16.1	17.3	23.5	29.7	33.5	33.5
67°	15482.7	8485.4	117.7	40.9	22.3	12.4	16.1	23.5	29.7	32.2	33.5
67.5°	15075.0	8143.5	112.8	39.7	21.1	12.4	16.1	23.5	29.7	33.5	33.5
70°	12266.0	6117.5	94.2	29.7	17.3	11.2	13.6	22.3	28.5	32.2	32.2
72.5°	8522.6	3771.9	84.3	21.1	14.9	9.9	12.4	21.1	27.3	31.0	32.2
75°	4051.9	1365.5	71.9	16.1	13.6	8.7	11.2	21.1	27.3	31.0	31.0
77.5°	826.5	317.2	58.2	13.6	11.2	8.7	9.9	19.8	26.0	29.7	29.7
80°	271.4	122.7	43.4	12.4	11.2	8.7	9.9	18.6	26.0	28.5	29.7
82.5°	195.8	62.0	28.5	12.4	11.2	8.7	8.7	18.6	24.8	28.5	28.5
85°	149.9	43.4	18.6	12.4	11.2	8.7	8.7	17.3	23.5	27.3	27.3
87.5°	99.1	17.3	14.9	12.4	11.2	8.7	8.7	17.3	22.3	26.0	27.3
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)