

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: P191836

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191836
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-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 26034 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - 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

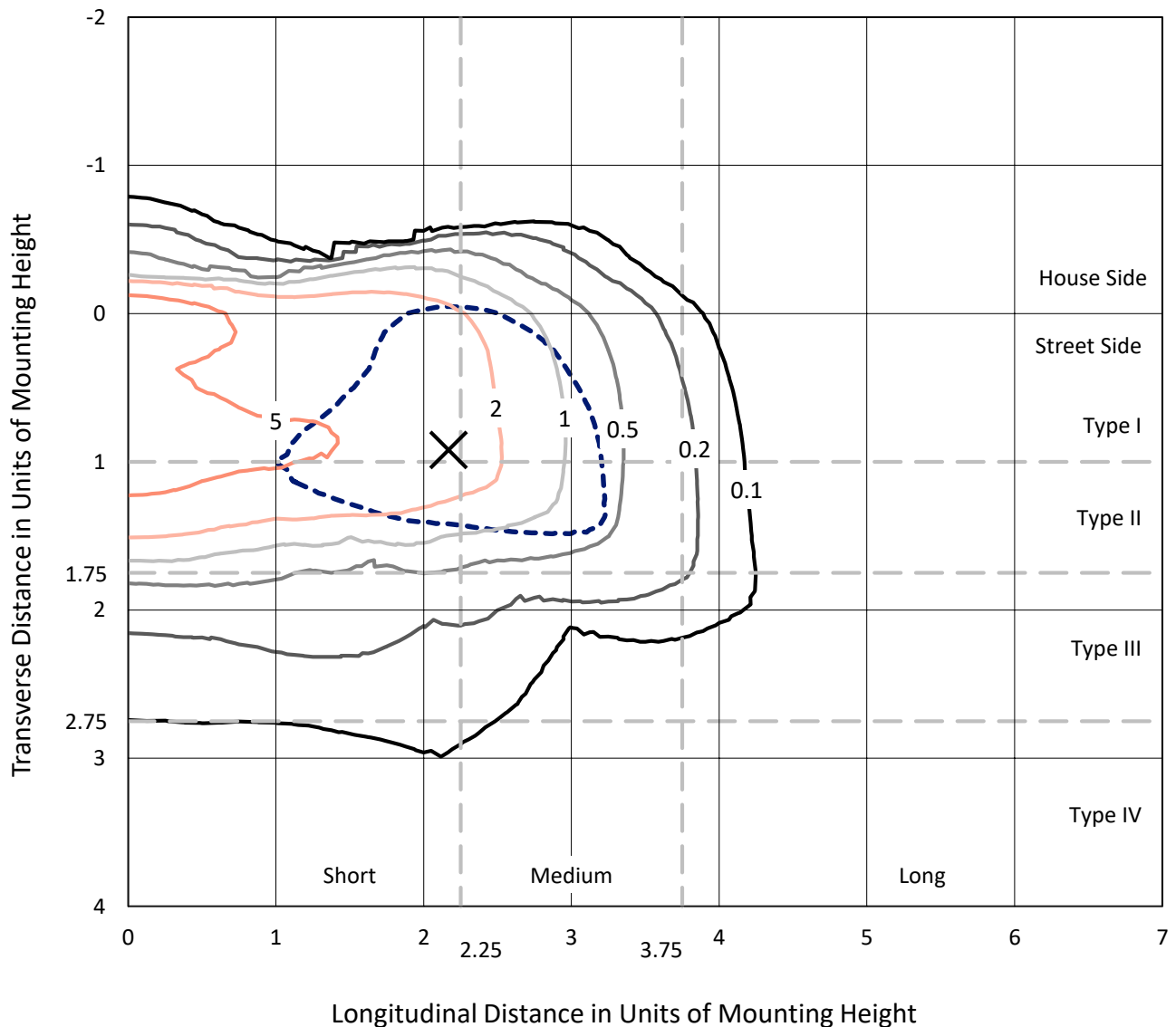


REPORT NUMBER: P191836

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

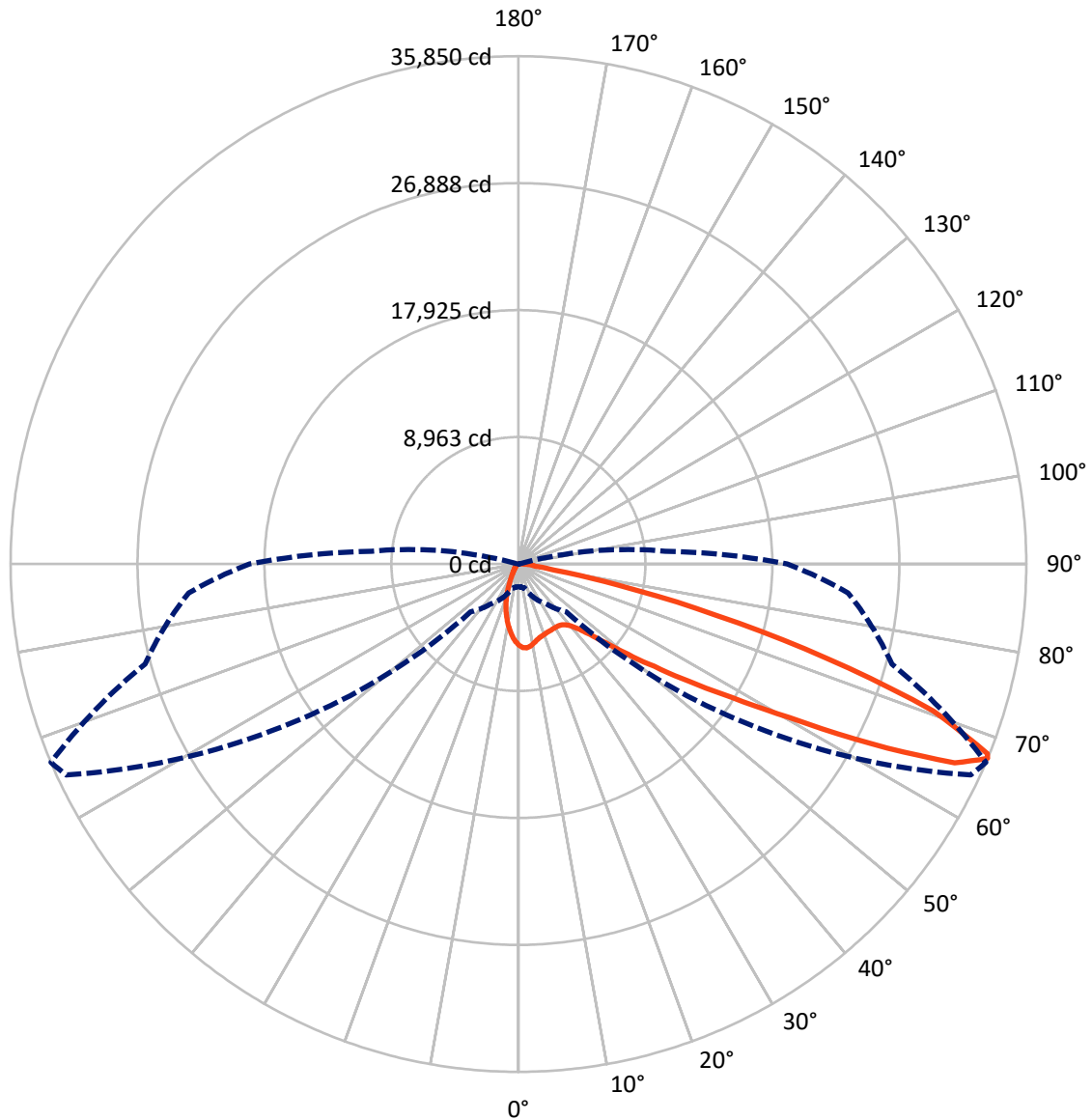
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191836
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191836

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2703.1	0.0	2703.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23330.9	0.0	23330.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	26034.0	0.0	26034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.2	1.8
10°-20°	994.3	3.8
20°-30°	1445.7	5.6
30°-40°	2255.3	8.7
40°-50°	3995.1	15.3
50°-60°	6321.9	24.3
60°-70°	7240.8	27.8
70°-80°	3003.5	11.5
80°-90°	310.2	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°	26034.0	100.0
0°-180°	26034.0	100.0



REPORT NUMBER: P191836

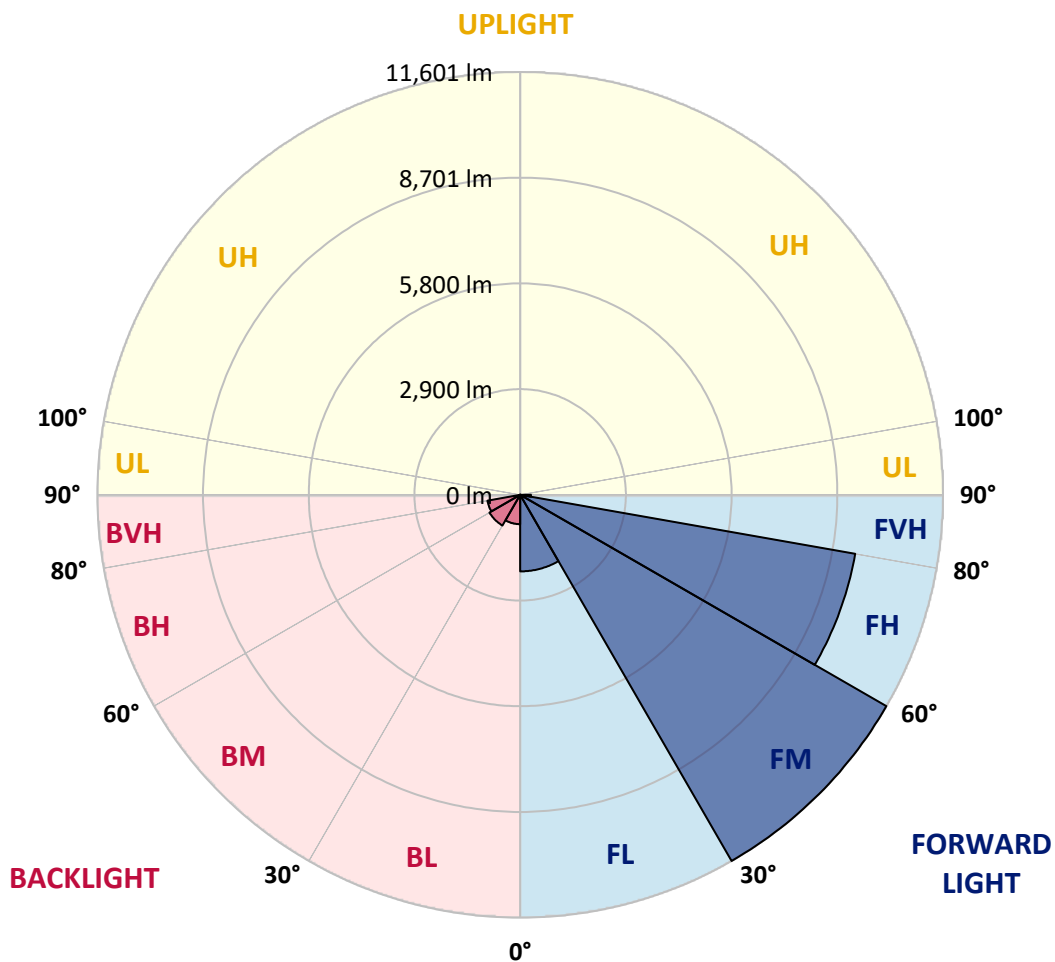
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.5	8.1			
FM (30°-60°)	11600.8	44.6			
FH (60°-80°)	9333.3	35.9			G4/12000
FVH (80°-90°)	296.3	1.1			G3/500
BL (0°-30°)	806.6	3.1	B2/1000		
BM (30°-60°)	971.5	3.7	B1/1000		
BH (60°-80°)	911.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.0	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





REPORT NUMBER: P191836

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5
2.5°	5935.8	5948.0	5946.5	5955.6	5976.8	5978.3	5957.1	5916.1	5907.0	5853.8	5761.2
5°	5474.2	5509.1	5530.4	5616.9	5714.1	5831.1	5919.1	5951.0	5946.5	5908.5	5768.8
7.5°	4947.3	4982.2	5006.5	5108.2	5237.3	5437.8	5667.1	5855.3	5872.0	5913.0	5762.7
10°	4596.5	4602.6	4636.0	4733.2	4868.3	5073.3	5346.6	5676.2	5726.3	5876.6	5747.5
12.5°	4308.0	4312.5	4356.6	4461.4	4605.6	4812.1	5099.1	5480.3	5557.7	5831.1	5744.5
15°	4103.0	4119.7	4159.2	4268.5	4421.9	4626.9	4921.5	5336.0	5428.6	5814.3	5771.8
17.5°	4034.7	4052.9	4065.0	4144.0	4283.7	4484.1	4786.3	5241.9	5346.6	5823.5	5825.0
20°	4106.0	4119.7	4092.4	4112.1	4198.7	4377.8	4672.4	5161.4	5285.9	5834.1	5893.3
22.5°	4371.8	4377.8	4303.4	4216.9	4201.7	4300.4	4582.8	5097.6	5231.2	5862.9	5973.8
25°	4827.3	4816.7	4695.2	4508.4	4332.3	4286.7	4529.7	5058.1	5203.9	5893.3	6057.3
27.5°	5377.0	5392.2	5225.2	4953.4	4617.8	4377.8	4522.1	5041.4	5191.8	5914.6	6130.2
30°	6045.2	6066.4	5875.1	5533.4	5052.1	4602.6	4592.0	5038.4	5184.2	5900.9	6136.3
32.5°	6727.0	6752.8	6602.4	6250.2	5632.1	4979.2	4749.9	5071.8	5199.4	5853.8	6101.3
35°	7440.7	7477.1	7376.9	7074.7	6418.7	5522.8	5027.8	5173.5	5270.7	5849.3	6066.4
37.5°	8426.2	8459.6	8271.3	7950.9	7370.8	6251.7	5474.2	5364.9	5439.3	5922.2	6075.5
40°	9897.6	9893.0	9407.1	8916.6	8417.1	7178.0	6101.3	5711.1	5749.1	6142.3	6187.9
42.5°	11501.1	11493.5	10775.3	10029.7	9578.7	8318.4	6925.9	6309.4	6283.6	6547.8	6479.5
45°	12737.2	12735.7	12149.5	11309.8	10977.3	9627.3	7991.9	7141.5	7102.0	7206.8	7017.0
47.5°	13264.1	13273.2	12978.6	12387.9	12527.6	11397.9	9335.8	8347.2	8288.0	8245.5	7957.0
50°	12854.1	12872.3	12896.6	12781.2	13665.0	13777.4	11138.2	10046.4	10017.6	9827.7	9376.8
52.5°	11514.8	11607.4	11892.9	12258.9	14059.8	16061.2	13964.2	12157.1	12002.2	11800.3	11303.7
55°	9258.3	9360.1	9902.2	10790.5	13472.2	17561.5	17924.4	14878.3	14620.1	14017.3	13300.6
57.5°	6127.2	6285.1	7071.7	8201.4	11765.4	17802.9	21875.5	18654.8	17755.9	16105.2	15297.4
60°	3375.6	3527.5	4380.9	5404.4	8497.5	16609.4	24532.9	23571.7	21983.4	18439.2	17722.4
62.5°	2078.8	2160.8	2791.0	3743.1	5096.1	13109.2	25082.6	29750.5	27911.6	21444.3	20651.6
65°	1655.2	1690.1	1998.3	3059.8	3653.5	7797.5	23307.5	34460.9	33847.4	25082.6	23274.1
67°	1606.6	1620.2	1766.0	2627.0	3444.0	4780.2	19526.4	35227.7	35850.3	27284.5	23356.1
67.5°	1617.2	1632.4	1770.6	2507.0	3437.9	4393.0	18223.6	34925.6	35712.1	27459.1	22993.2
70°	1559.5	1606.6	2027.2	2505.5	3269.3	3650.5	10913.5	30260.7	31079.2	25513.9	19509.7
72.5°	552.7	555.8	876.2	2027.2	3554.8	3690.0	5480.3	22183.8	22789.7	19517.3	14065.9
75°	328.0	279.4	291.6	577.0	3396.9	3583.7	3161.5	14175.2	14401.5	11183.8	7123.3
77.5°	226.3	197.4	203.5	255.1	1293.8	3533.6	2511.6	7392.1	7150.6	3922.3	1517.0
80°	129.1	113.9	121.5	223.2	470.7	3296.7	2368.9	2997.5	2555.6	665.1	419.1
82.5°	68.3	57.7	69.9	183.7	328.0	2054.5	2373.4	1448.7	1148.0	224.7	285.5
85°	24.3	19.7	33.4	126.0	218.7	630.2	2200.3	1217.8	956.7	109.3	217.1
87.5°	4.6	4.6	13.7	51.6	88.1	192.8	1301.4	722.8	484.4	65.3	148.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191836

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5
2.5°	5723.2	5657.9	5569.9	5462.1	5334.5	5222.1	5138.6	5052.1	5033.8	5003.5	4998.9
5°	5685.3	5572.9	5354.2	5103.7	4836.4	4595.0	4399.1	4224.5	4147.0	4080.2	4072.6
7.5°	5629.1	5460.5	5088.5	4684.6	4267.0	3887.4	3565.4	3337.7	3128.1	3027.9	3012.7
10°	5563.8	5322.4	4789.4	4229.0	3652.0	3116.0	2637.6	2236.8	1993.8	1849.5	1831.3
12.5°	5503.1	5187.2	4484.1	3756.8	2989.9	2273.2	1658.2	1275.5	1020.4	917.2	905.0
15°	5474.2	5077.9	4198.7	3273.9	2297.5	1447.1	906.5	701.5	618.0	593.7	592.2
17.5°	5471.2	4985.2	3919.3	2774.3	1609.6	841.3	590.7	539.1	522.4	516.3	516.3
20°	5469.6	4897.2	3639.9	2256.5	1022.0	560.3	492.0	479.8	467.7	460.1	460.1
22.5°	5486.3	4818.2	3348.3	1728.1	643.8	454.0	432.8	420.6	405.4	394.8	393.3
25°	5503.1	4757.5	3050.7	1230.0	466.2	394.8	373.6	356.8	335.6	321.9	320.4
27.5°	5506.1	4681.5	2731.8	823.0	390.3	344.7	317.4	291.6	267.3	253.6	252.1
30°	5460.5	4554.0	2378.0	555.8	344.7	299.1	262.7	235.4	212.6	202.0	202.0
32.5°	5370.9	4396.1	1989.2	419.1	306.7	256.6	217.1	191.3	176.1	171.6	170.1
35°	5290.5	4226.0	1589.9	355.3	274.8	217.1	177.7	161.0	151.9	150.3	148.8
37.5°	5243.4	4089.3	1214.8	321.9	244.5	182.2	150.3	138.2	133.6	130.6	132.1
40°	5279.8	3975.4	897.4	294.6	214.1	151.9	127.6	121.5	116.9	115.4	115.4
42.5°	5439.3	3955.7	666.6	270.3	185.3	126.0	110.9	106.3	103.3	101.7	103.3
45°	5858.4	4077.2	517.8	247.5	156.4	106.3	94.1	92.6	91.1	91.1	91.1
47.5°	6488.6	4327.7	431.3	221.7	130.6	91.1	82.0	80.5	79.0	80.5	80.5
50°	7556.1	4786.3	385.7	195.9	107.8	77.4	69.9	69.9	69.9	69.9	71.4
52.5°	9179.3	5688.3	355.3	170.1	88.1	65.3	59.2	59.2	60.7	60.7	62.3
55°	10987.9	6884.9	328.0	144.3	74.4	54.7	48.6	50.1	51.6	53.1	53.1
57.5°	12949.8	8210.5	305.2	118.4	63.8	44.0	41.0	42.5	44.0	47.1	47.1
60°	15317.1	9645.5	271.8	92.6	53.1	34.9	31.9	34.9	39.5	42.5	44.0
62.5°	17916.8	11033.4	229.3	72.9	44.0	27.3	25.8	31.9	38.0	41.0	42.5
65°	19693.5	11469.3	176.1	59.2	33.4	19.7	21.3	28.9	36.4	41.0	41.0
67°	18973.7	10398.7	144.3	50.1	27.3	15.2	19.7	28.9	36.4	39.5	41.0
67.5°	18474.1	9979.6	138.2	48.6	25.8	15.2	19.7	28.9	36.4	41.0	41.0
70°	15031.7	7496.8	115.4	36.4	21.3	13.7	16.7	27.3	34.9	39.5	39.5
72.5°	10444.3	4622.3	103.3	25.8	18.2	12.1	15.2	25.8	33.4	38.0	39.5
75°	4965.5	1673.4	88.1	19.7	16.7	10.6	13.7	25.8	33.4	38.0	38.0
77.5°	1012.8	388.7	71.4	16.7	13.7	10.6	12.1	24.3	31.9	36.4	36.4
80°	332.6	150.3	53.1	15.2	13.7	10.6	12.1	22.8	31.9	34.9	36.4
82.5°	239.9	75.9	34.9	15.2	13.7	10.6	10.6	22.8	30.4	34.9	34.9
85°	183.7	53.1	22.8	15.2	13.7	10.6	10.6	21.3	28.9	33.4	33.4
87.5°	121.5	21.3	18.2	15.2	13.7	10.6	10.6	21.3	27.3	31.9	33.4
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)