

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: P193597

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193597
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-09-LED-E1-SL2-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 35967 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

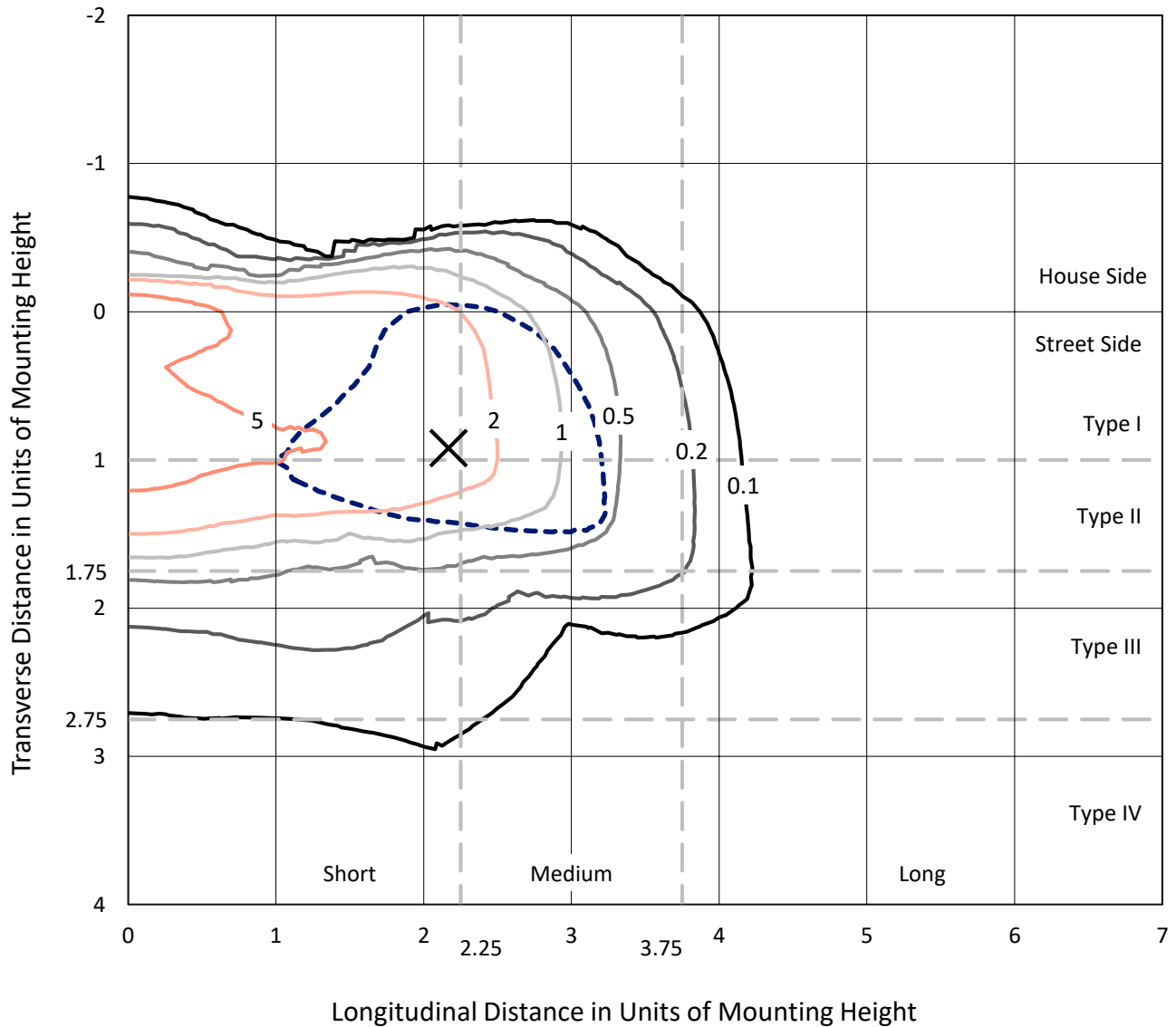


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

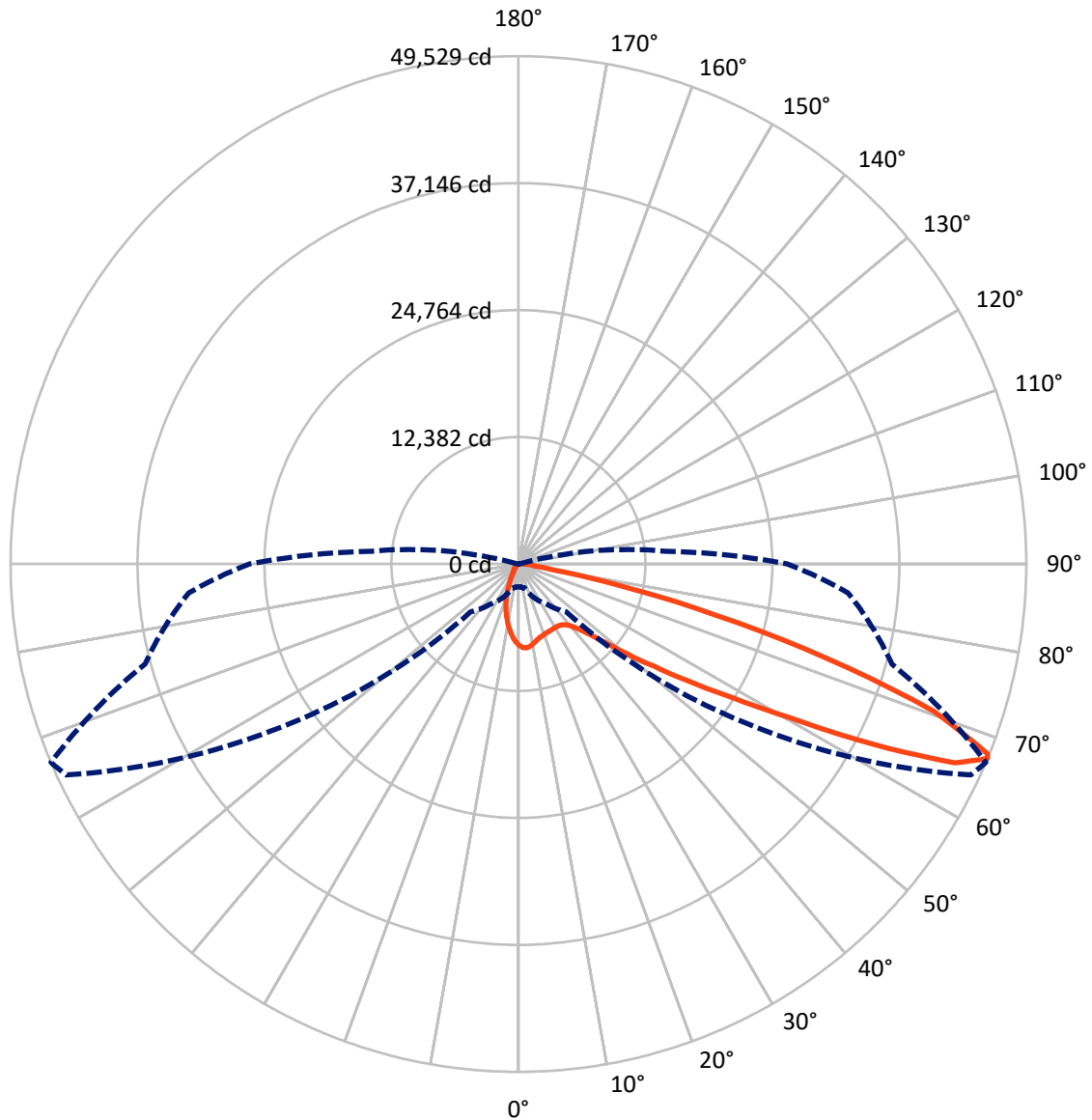


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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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	3734.5	0.0	3734.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	32232.5	0.0	32232.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	35967.0	0.0	35967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.4	1.8
10°-20°	1373.7	3.8
20°-30°	1997.2	5.6
30°-40°	3115.8	8.7
40°-50°	5519.4	15.3
50°-60°	8733.9	24.3
60°-70°	10003.5	27.8
70°-80°	4149.4	11.5
80°-90°	428.6	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°	35967.0	100.0
0°-180°	35967.0	100.0

Coefficient of Utilization



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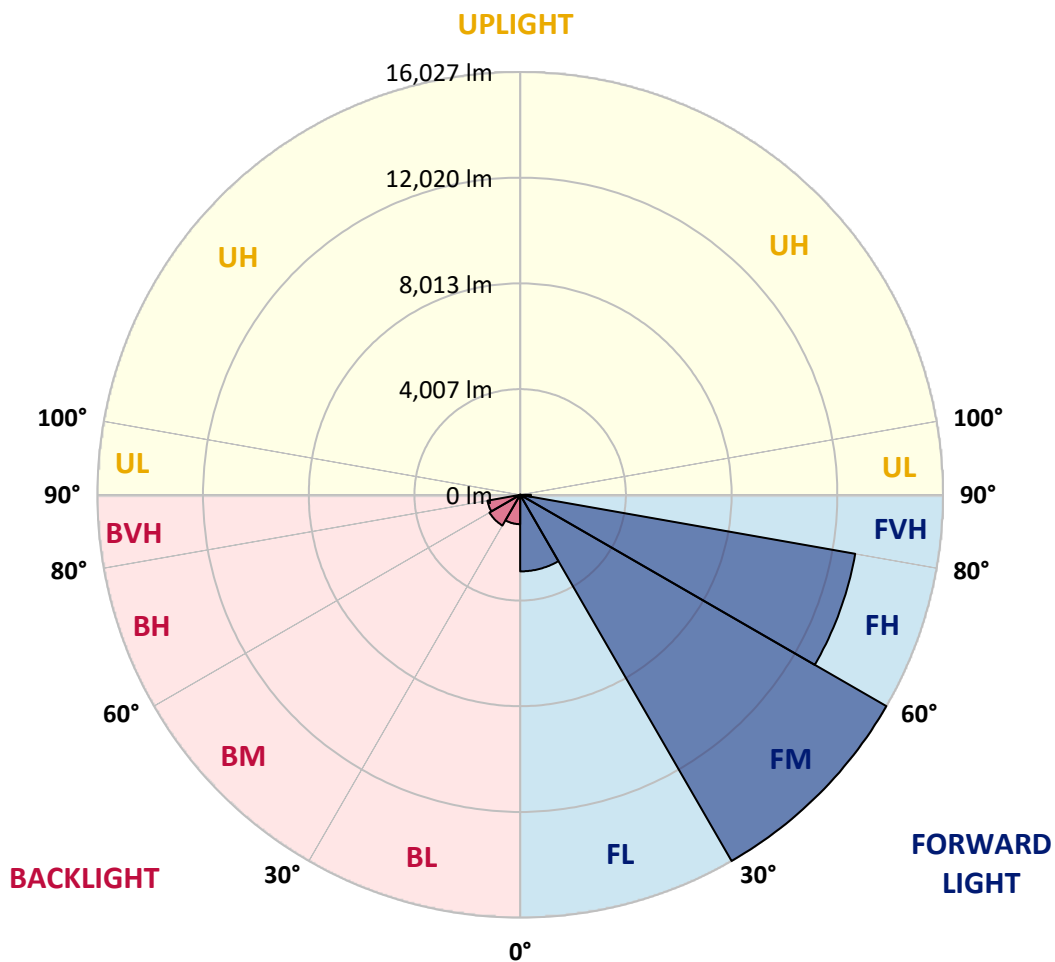
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2902.0	8.1			
FM (30°-60°)	16027.0	44.6			
FH (60°-80°)	12894.3	35.9			G5
FVH (80°-90°)	409.3	1.1			G3/500
BL (0°-30°)	1114.4	3.1	B3/2500		
BM (30°-60°)	1342.1	3.7	B2/2500		
BH (60°-80°)	1258.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1
2.5°	8200.6	8217.4	8215.3	8227.9	8257.2	8259.3	8229.9	8173.3	8160.7	8087.3	7959.3
5°	7562.8	7611.1	7640.4	7760.0	7894.3	8055.8	8177.5	8221.6	8215.3	8162.8	7969.8
7.5°	6834.9	6883.1	6916.7	7057.2	7235.6	7512.5	7829.3	8089.4	8112.5	8169.1	7961.4
10°	6350.3	6358.6	6404.8	6539.1	6725.8	7009.0	7386.6	7841.8	7911.1	8118.8	7940.4
12.5°	5951.7	5958.0	6018.8	6163.5	6362.8	6648.2	7044.7	7571.2	7678.2	8055.8	7936.2
15°	5668.4	5691.5	5746.1	5897.1	6109.0	6392.2	6799.2	7371.9	7499.9	8032.7	7974.0
17.5°	5574.0	5599.2	5616.0	5725.1	5918.1	6195.0	6612.5	7241.9	7386.6	8045.3	8047.4
20°	5672.6	5691.5	5653.8	5681.0	5800.6	6048.2	6455.2	7130.7	7302.7	8060.0	8141.8
22.5°	6039.8	6048.2	5945.4	5825.8	5804.8	5941.2	6331.4	7042.6	7227.2	8099.9	8253.0
25°	6669.1	6654.4	6486.6	6228.6	5985.2	5922.3	6258.0	6988.0	7189.4	8141.8	8368.4
27.5°	7428.6	7449.5	7218.8	6843.3	6379.6	6048.2	6247.5	6964.9	7172.6	8171.2	8469.1
30°	8351.6	8381.0	8116.7	7644.6	6979.6	6358.6	6344.0	6960.7	7162.1	8152.3	8477.5
32.5°	9293.6	9329.2	9121.5	8634.8	7781.0	6878.9	6562.1	7006.9	7183.1	8087.3	8429.2
35°	10279.6	10329.9	10191.5	9774.0	8867.7	7630.0	6946.1	7147.4	7281.7	8081.0	8381.0
37.5°	11641.1	11687.2	11427.1	10984.5	10183.1	8636.9	7562.8	7411.8	7514.6	8181.7	8393.6
40°	13673.9	13667.6	12996.3	12318.7	11628.5	9916.6	8429.2	7890.1	7942.5	8485.9	8548.8
42.5°	15889.3	15878.8	14886.5	13856.4	13233.4	11492.1	9568.4	8716.7	8681.0	9046.0	8951.6
45°	17596.9	17594.8	16785.1	15624.9	15165.5	13300.5	11041.1	9866.3	9811.7	9956.5	9694.3
47.5°	18324.9	18337.5	17930.5	17114.4	17307.4	15746.6	12897.7	11532.0	11450.2	11391.4	10992.8
50°	17758.5	17783.7	17817.2	17657.8	18878.7	19034.0	15387.9	13879.5	13839.7	13577.4	12954.4
52.5°	15908.2	16036.1	16430.5	16936.1	19424.2	22189.2	19292.0	16795.6	16581.6	16302.6	15616.6
55°	12790.7	12931.3	13680.2	14907.5	18612.3	24261.9	24763.3	20554.9	20198.3	19365.5	18375.3
57.5°	8464.9	8683.1	9769.8	11330.6	16254.3	24595.4	30221.9	25772.4	24530.4	22250.0	21134.0
60°	4663.6	4873.4	6052.4	7466.3	11739.7	22946.5	33893.2	32565.3	30370.9	25474.5	24484.3
62.5°	2872.0	2985.3	3855.9	5171.3	7040.5	18110.9	34652.6	41101.5	38561.0	29626.1	28531.1
65°	2286.7	2334.9	2760.8	4227.2	5047.5	10772.6	32200.2	47609.1	46761.6	34652.6	32154.1
67°	2219.5	2238.4	2439.8	3629.3	4758.0	6604.1	26976.5	48668.5	49528.6	37694.6	32267.4
67.5°	2234.2	2255.2	2446.1	3463.6	4749.6	6069.1	25176.6	48251.0	49337.7	37935.8	31766.0
70°	2154.5	2219.5	2800.7	3461.5	4516.7	5043.3	15077.4	41806.4	42937.1	35248.4	26953.5
72.5°	763.6	767.8	1210.5	2800.7	4911.1	5097.8	7571.2	30647.8	31484.9	26963.9	19432.6
75°	453.1	386.0	402.8	797.2	4692.9	4951.0	4367.8	19583.6	19896.2	15450.8	9841.1
77.5°	312.6	272.7	281.1	352.4	1787.4	4881.7	3469.9	10212.4	9878.9	5418.8	2095.8
80°	178.3	157.3	167.8	308.4	650.3	4554.5	3272.7	4141.2	3530.7	918.9	579.0
82.5°	94.4	79.7	96.5	253.8	453.1	2838.4	3279.0	2001.4	1586.0	310.5	394.4
85°	33.6	27.3	46.2	174.1	302.1	870.6	3039.8	1682.5	1321.7	151.0	300.0
87.5°	6.3	6.3	18.9	71.3	121.7	266.4	1797.9	998.6	669.2	90.2	205.6
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°	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1	7932.1
2.5°	7906.9	7816.7	7695.0	7546.0	7369.8	7214.6	7099.2	6979.6	6954.4	6912.5	6906.2
5°	7854.4	7699.2	7397.1	7050.9	6681.7	6348.2	6077.5	5836.3	5729.3	5637.0	5626.5
7.5°	7776.8	7543.9	7030.0	6471.9	5895.0	5370.6	4925.8	4611.1	4321.6	4183.2	4162.2
10°	7686.6	7353.0	6616.7	5842.6	5045.4	4304.8	3644.0	3090.2	2754.5	2555.2	2530.0
12.5°	7602.7	7166.3	6195.0	5190.1	4130.7	3140.5	2290.9	1762.2	1409.8	1267.1	1250.3
15°	7562.8	7015.3	5800.6	4523.0	3174.1	1999.3	1252.4	969.2	853.8	820.3	818.2
17.5°	7558.6	6887.3	5414.6	3832.8	2223.7	1162.2	816.1	744.7	721.7	713.3	713.3
20°	7556.5	6765.6	5028.6	3117.4	1411.9	774.1	679.7	662.9	646.1	635.7	635.7
22.5°	7579.6	6656.5	4625.8	2387.4	889.5	627.3	597.9	581.1	560.1	545.4	543.3
25°	7602.7	6572.6	4214.6	1699.3	644.0	545.4	516.1	493.0	463.6	444.7	442.7
27.5°	7606.9	6467.7	3774.1	1137.0	539.2	476.2	438.5	402.8	369.2	350.3	348.2
30°	7543.9	6291.5	3285.3	767.8	476.2	413.3	362.9	325.2	293.7	279.0	279.0
32.5°	7420.2	6073.3	2748.2	579.0	423.8	354.5	300.0	264.3	243.4	237.1	235.0
35°	7309.0	5838.4	2196.5	490.9	379.7	300.0	245.5	222.4	209.8	207.7	205.6
37.5°	7243.9	5649.6	1678.3	444.7	337.8	251.7	207.7	190.9	184.6	180.4	182.5
40°	7294.3	5492.2	1239.8	407.0	295.8	209.8	176.2	167.8	161.5	159.4	159.4
42.5°	7514.6	5465.0	921.0	373.4	255.9	174.1	153.1	146.9	142.7	140.6	142.7
45°	8093.6	5632.8	715.4	342.0	216.1	146.9	130.1	128.0	125.9	125.9	125.9
47.5°	8964.2	5978.9	595.8	306.3	180.4	125.9	113.3	111.2	109.1	111.2	111.2
50°	10439.0	6612.5	532.9	270.6	148.9	107.0	96.5	96.5	96.5	96.5	98.6
52.5°	12681.6	7858.6	490.9	235.0	121.7	90.2	81.8	81.8	83.9	83.9	86.0
55°	15180.2	9511.7	453.1	199.3	102.8	75.5	67.1	69.2	71.3	73.4	73.4
57.5°	17890.6	11343.2	421.7	163.6	88.1	60.8	56.6	58.7	60.8	65.0	65.0
60°	21161.2	13325.7	375.5	128.0	73.4	48.3	44.1	48.3	54.5	58.7	60.8
62.5°	24752.8	15243.1	316.8	100.7	60.8	37.8	35.7	44.1	52.4	56.6	58.7
65°	27207.3	15845.2	243.4	81.8	46.2	27.3	29.4	39.9	50.3	56.6	56.6
67°	26212.9	14366.2	199.3	69.2	37.8	21.0	27.3	39.9	50.3	54.5	56.6
67.5°	25522.7	13787.2	190.9	67.1	35.7	21.0	27.3	39.9	50.3	56.6	56.6
70°	20766.8	10357.2	159.4	50.3	29.4	18.9	23.1	37.8	48.3	54.5	54.5
72.5°	14429.2	6385.9	142.7	35.7	25.2	16.8	21.0	35.7	46.2	52.4	54.5
75°	6860.0	2311.9	121.7	27.3	23.1	14.7	18.9	35.7	46.2	52.4	52.4
77.5°	1399.3	537.1	98.6	23.1	18.9	14.7	16.8	33.6	44.1	50.3	50.3
80°	459.4	207.7	73.4	21.0	18.9	14.7	16.8	31.5	44.1	48.3	50.3
82.5°	331.5	104.9	48.3	21.0	18.9	14.7	14.7	31.5	42.0	48.3	48.3
85°	253.8	73.4	31.5	21.0	18.9	14.7	14.7	29.4	39.9	46.2	46.2
87.5°	167.8	29.4	25.2	21.0	18.9	14.7	14.7	29.4	37.8	44.1	46.2
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)