

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: P191037

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191037
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-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 29706.5 lumens
Efficiency: N/A
Efficacy: 102.4 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 - G4

Input Watts (W): 290
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

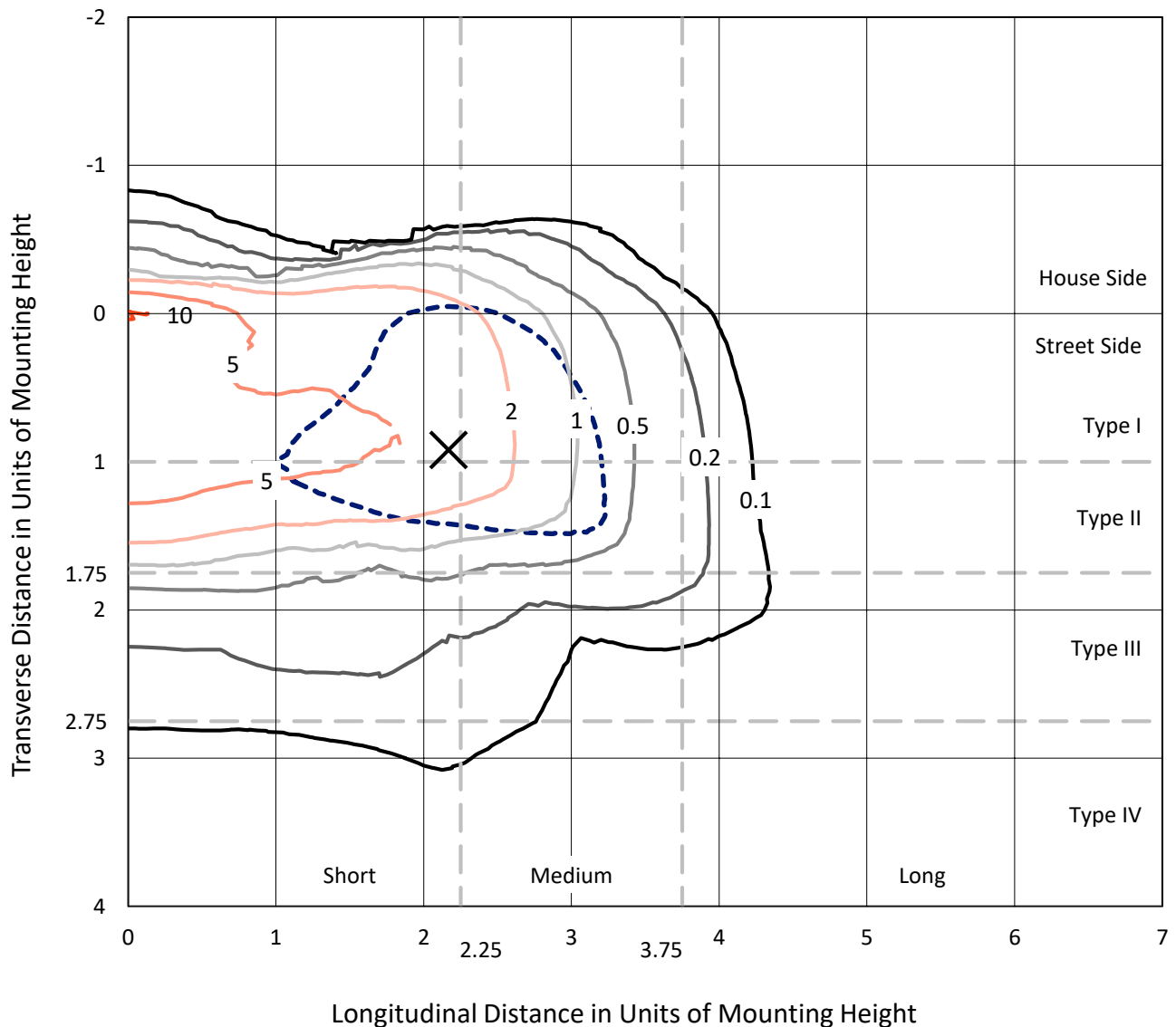


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Iso-Footcandle Lines of Horizontal Illumination

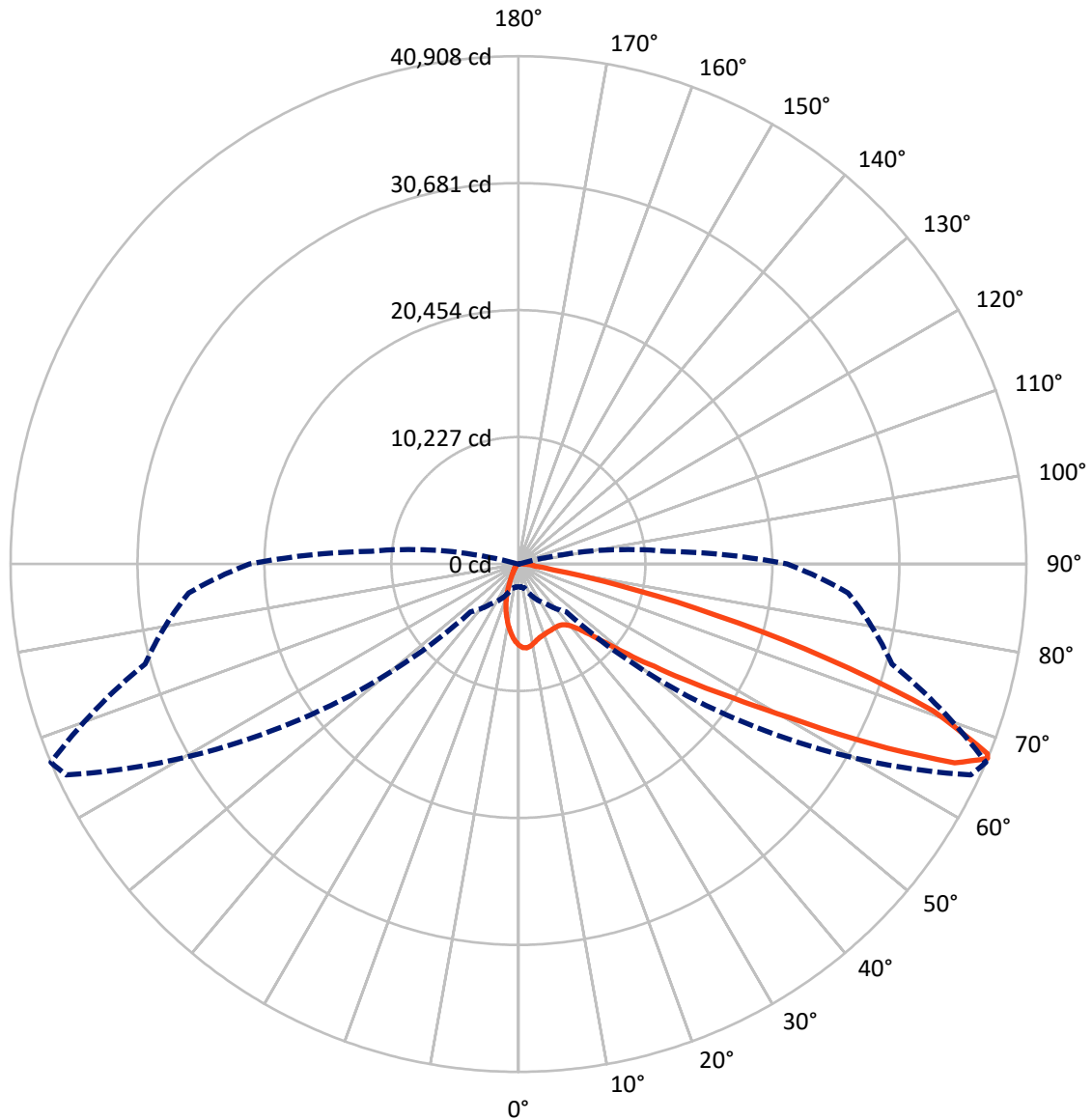
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3084.4	0.0	3084.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	26622.1	0.0	26622.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	29706.5	0.0	29706.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.1	1.8
10°-20°	1134.6	3.8
20°-30°	1649.6	5.6
30°-40°	2573.4	8.7
40°-50°	4558.7	15.3
50°-60°	7213.7	24.3
60°-70°	8262.3	27.8
70°-80°	3427.1	11.5
80°-90°	354.0	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°	29706.5	100.0
0°-180°	29706.5	100.0

Coefficient of Utilization



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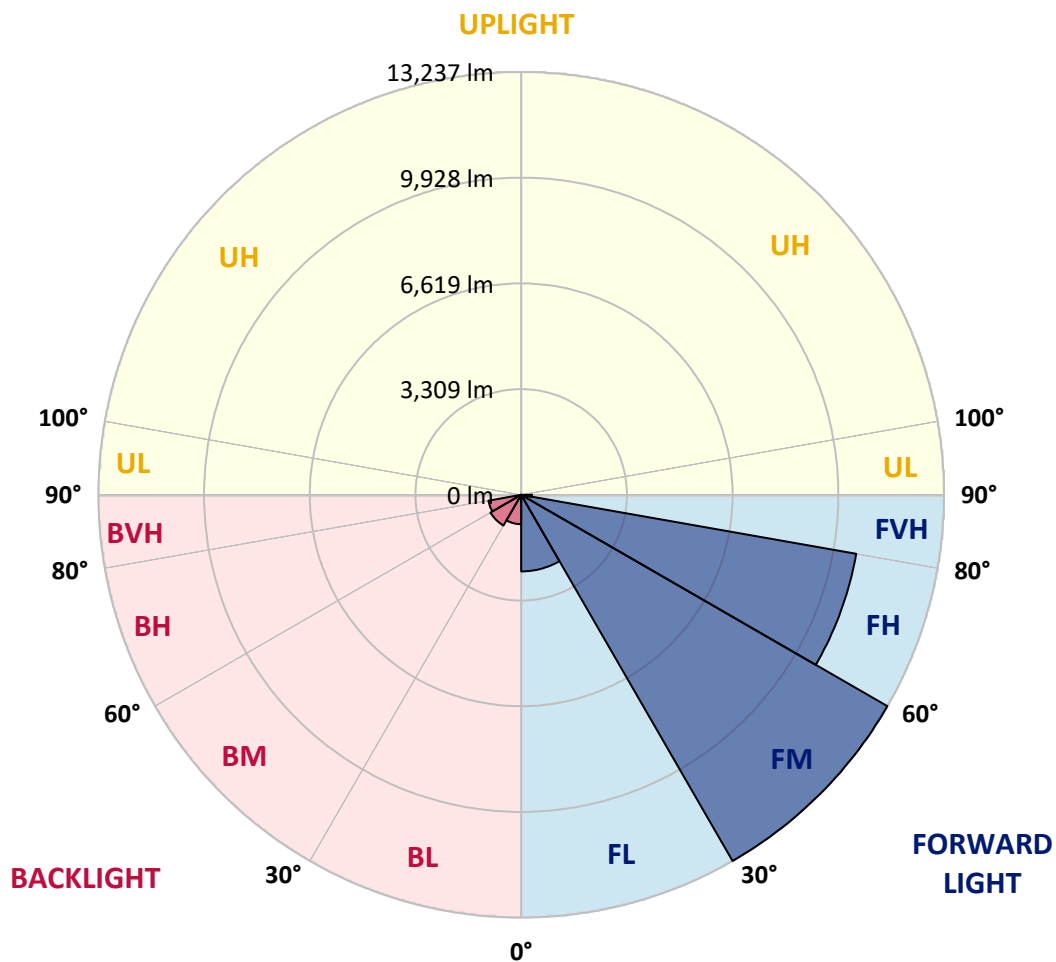
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.9	8.1			
FM	(30°-60°)	13237.3	44.6			
FH	(60°-80°)	10649.9	35.9			G4/12000
FVH	(80°-90°)	338.1	1.1			G3/500
BL	(0°-30°)	920.4	3.1	B2/1000		
BM	(30°-60°)	1108.5	3.7	B2/2500		
BH	(60°-80°)	1039.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	15.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4
2.5°	6773.2	6787.1	6785.3	6795.7	6819.9	6821.6	6797.4	6750.7	6740.2	6679.6	6573.9
5°	6246.4	6286.2	6310.5	6409.3	6520.2	6653.6	6754.1	6790.4	6785.3	6742.0	6582.6
7.5°	5645.2	5685.0	5712.8	5828.9	5976.1	6204.8	6466.5	6681.3	6700.4	6747.2	6575.6
10°	5244.9	5251.8	5290.0	5400.9	5555.0	5789.0	6100.9	6476.9	6534.1	6705.5	6558.3
12.5°	4915.7	4920.9	4971.1	5090.7	5255.3	5491.0	5818.4	6253.4	6341.7	6653.6	6554.9
15°	4681.7	4700.9	4745.9	4870.7	5045.6	5279.6	5615.7	6088.7	6194.5	6634.6	6586.1
17.5°	4603.8	4624.6	4638.5	4728.6	4888.0	5116.7	5461.5	5981.3	6100.9	6645.0	6646.7
20°	4685.2	4700.9	4669.7	4692.2	4791.0	4995.4	5331.5	5889.4	6031.5	6657.1	6724.7
22.5°	4988.5	4995.4	4910.5	4811.8	4794.4	4907.0	5229.3	5816.7	5969.2	6690.0	6816.4
25°	5508.3	5496.1	5357.5	5144.4	4943.4	4891.4	5168.7	5771.7	5938.0	6724.7	6911.8
27.5°	6135.6	6152.8	5962.3	5652.1	5269.2	4995.4	5160.0	5752.6	5924.1	6748.9	6994.9
30°	6898.0	6922.2	6703.8	6314.0	5764.7	5251.8	5239.8	5749.1	5915.5	6733.3	7001.9
32.5°	7675.9	7705.4	7533.8	7131.8	6426.6	5681.6	5419.9	5787.2	5932.8	6679.6	6962.0
35°	8490.3	8531.8	8417.6	8072.7	7324.1	6301.9	5737.0	5903.3	6014.2	6674.4	6922.2
37.5°	9614.8	9653.0	9438.1	9072.4	8410.6	7133.5	6246.4	6121.6	6206.5	6757.6	6932.5
40°	11293.8	11288.6	10734.1	10174.5	9604.4	8190.6	6962.0	6516.7	6560.1	7008.8	7060.8
42.5°	13123.5	13114.8	12295.4	11444.6	10929.9	9491.8	7902.9	7199.4	7170.0	7471.4	7393.5
45°	14534.0	14532.2	13863.4	12905.2	12525.7	10985.4	9119.3	8148.9	8103.9	8223.4	8006.8
47.5°	15135.3	15145.6	14809.5	14135.4	14294.8	13005.7	10652.7	9524.7	9457.2	9408.6	9079.4
50°	14667.4	14688.1	14715.9	14584.2	15592.6	15720.9	12709.4	11463.6	11430.7	11214.1	10699.5
52.5°	13139.2	13244.9	13570.6	13988.1	16043.1	18326.9	15934.0	13872.0	13695.4	13464.9	12898.3
55°	10564.3	10680.4	11299.0	12312.6	15372.6	20038.8	20452.9	16977.1	16682.5	15994.7	15176.8
57.5°	6991.5	7171.7	8069.2	9358.4	13425.0	20314.3	24961.4	21286.4	20260.6	18377.1	17455.3
60°	3851.8	4025.1	4998.9	6166.8	9696.2	18952.4	27993.7	26896.9	25084.5	21040.3	20222.5
62.5°	2372.1	2465.6	3184.8	4271.1	5815.0	14958.5	28620.9	33947.2	31849.0	24469.3	23564.9
65°	1888.7	1928.5	2280.3	3491.4	4168.9	8897.4	26595.4	39322.1	38622.1	28620.9	26557.2
67°	1833.2	1848.8	2015.1	2997.6	3929.8	5454.6	22280.9	40197.2	40907.6	31133.3	26650.8
67.5°	1845.3	1862.7	2020.3	2860.7	3922.8	5012.8	20794.2	39852.3	40749.9	31332.6	26236.7
70°	1779.5	1833.2	2313.2	2858.9	3730.5	4165.5	12453.0	34529.5	35463.4	29113.0	22261.9
72.5°	630.8	634.1	999.7	2313.2	4056.3	4210.5	6253.4	25313.1	26004.5	22270.6	16050.1
75°	374.3	318.9	332.7	658.5	3876.1	4089.2	3607.5	16174.9	16433.0	12761.4	8128.2
77.5°	258.2	225.3	232.2	291.1	1476.2	4032.1	2865.9	8434.8	8159.4	4475.6	1730.9
80°	147.3	129.9	138.6	254.7	537.2	3761.7	2703.0	3420.3	2916.1	758.9	478.2
82.5°	77.9	65.9	79.7	209.7	374.3	2344.4	2708.3	1653.0	1309.9	256.5	325.7
85°	27.7	22.5	38.2	143.8	249.5	719.0	2510.7	1389.7	1091.6	124.8	247.8
87.5°	5.2	5.2	15.5	58.9	100.5	220.0	1484.9	824.8	552.7	74.5	169.8
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°	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4	6551.4
2.5°	6530.6	6456.0	6355.6	6232.5	6087.0	5958.8	5863.5	5764.7	5744.0	5709.3	5704.1
5°	6487.2	6359.1	6109.6	5823.7	5518.7	5243.1	5019.6	4820.5	4732.1	4655.8	4647.2
7.5°	6423.1	6230.8	5806.3	5345.4	4868.9	4435.7	4068.4	3808.5	3569.4	3455.0	3437.7
10°	6348.6	6073.2	5465.0	4825.6	4167.2	3555.6	3009.7	2552.3	2275.0	2110.4	2089.7
12.5°	6279.4	5918.9	5116.7	4286.7	3411.7	2593.9	1892.2	1455.5	1164.4	1046.6	1032.7
15°	6246.4	5794.2	4791.0	3735.7	2621.6	1651.2	1034.4	800.6	705.2	677.5	675.8
17.5°	6243.0	5688.5	4472.1	3165.6	1836.7	959.9	674.0	615.1	596.1	589.1	589.1
20°	6241.2	5588.0	4153.3	2574.8	1166.2	639.3	561.4	547.6	533.7	525.0	525.0
22.5°	6260.3	5497.8	3820.6	1971.8	734.7	518.1	493.8	480.0	462.7	450.5	448.8
25°	6279.4	5428.6	3481.0	1403.5	531.9	450.5	426.3	407.2	382.9	367.3	365.6
27.5°	6282.8	5342.0	3117.1	939.2	445.3	393.3	362.1	332.7	304.9	289.4	287.7
30°	6230.8	5196.4	2713.4	634.1	393.3	341.4	299.7	268.5	242.5	230.5	230.5
32.5°	6128.6	5016.2	2269.8	478.2	350.1	292.9	247.8	218.3	201.0	195.8	194.1
35°	6036.7	4822.1	1814.1	405.5	313.6	247.8	202.7	183.6	173.3	171.5	169.8
37.5°	5983.0	4666.2	1386.2	367.3	279.0	208.0	171.5	157.6	152.5	149.0	150.8
40°	6024.7	4536.3	1024.1	336.1	244.3	173.3	145.6	138.6	133.4	131.7	131.7
42.5°	6206.5	4513.7	760.7	308.4	211.3	143.8	126.4	121.3	117.8	116.1	117.8
45°	6684.8	4652.3	590.9	282.4	178.5	121.3	107.4	105.7	103.9	103.9	103.9
47.5°	7403.9	4938.2	492.0	253.0	149.0	103.9	93.6	91.9	90.1	91.9	91.9
50°	8621.9	5461.5	440.1	223.5	123.1	88.4	79.7	79.7	79.7	79.7	81.4
52.5°	10474.2	6490.7	405.5	194.1	100.5	74.5	67.6	67.6	69.4	69.4	71.0
55°	12537.9	7856.2	374.3	164.6	84.9	62.4	55.4	57.2	58.9	60.7	60.7
57.5°	14776.5	9368.8	348.3	135.1	72.7	50.2	46.7	48.5	50.2	53.7	53.7
60°	17477.8	11006.1	310.2	105.7	60.7	39.9	36.4	39.9	45.0	48.5	50.2
62.5°	20444.3	12589.9	261.7	83.2	50.2	31.2	29.5	36.4	43.3	46.7	48.5
65°	22471.6	13087.1	201.0	67.6	38.2	22.5	24.2	32.9	41.6	46.7	46.7
67°	21650.2	11865.6	164.6	57.2	31.2	17.3	22.5	32.9	41.6	45.0	46.7
67.5°	21080.2	11387.4	157.6	55.4	29.5	17.3	22.5	32.9	41.6	46.7	46.7
70°	17152.1	8554.4	131.7	41.6	24.2	15.5	19.0	31.2	39.9	45.0	45.0
72.5°	11917.6	5274.3	117.8	29.5	20.8	13.9	17.3	29.5	38.2	43.3	45.0
75°	5665.9	1909.4	100.5	22.5	19.0	12.2	15.5	29.5	38.2	43.3	43.3
77.5°	1155.7	443.6	81.4	19.0	15.5	12.2	13.9	27.7	36.4	41.6	41.6
80°	379.4	171.5	60.7	17.3	15.5	12.2	13.9	26.0	36.4	39.9	41.6
82.5°	273.7	86.6	39.9	17.3	15.5	12.2	12.2	26.0	34.7	39.9	39.9
85°	209.7	60.7	26.0	17.3	15.5	12.2	12.2	24.2	32.9	38.2	38.2
87.5°	138.6	24.2	20.8	17.3	15.5	12.2	12.2	24.2	31.2	36.4	38.2
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)