

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: P193596

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193596
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 32243 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 445
Input Voltage (V): NR
Input Current (A_{in}): 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

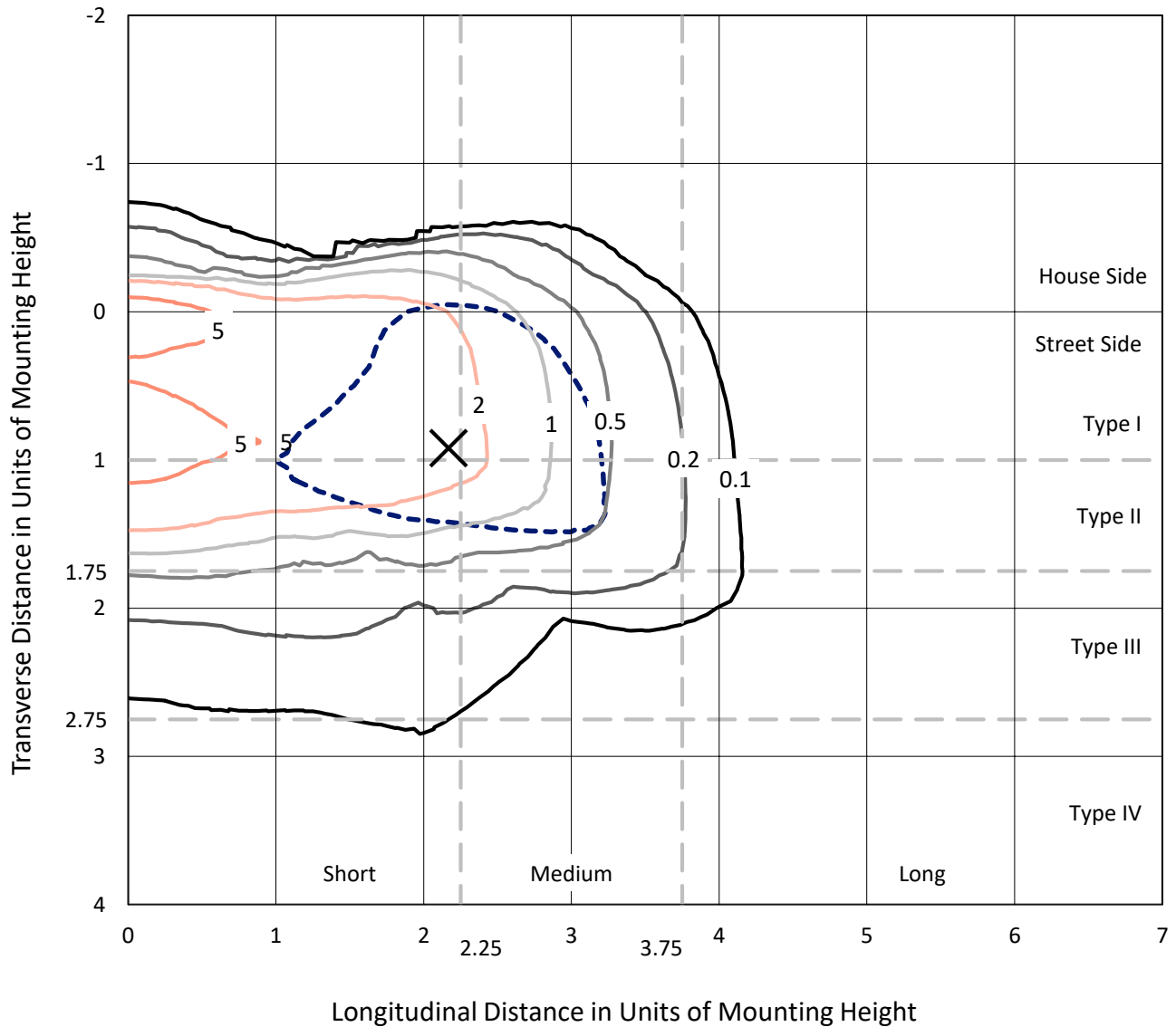


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

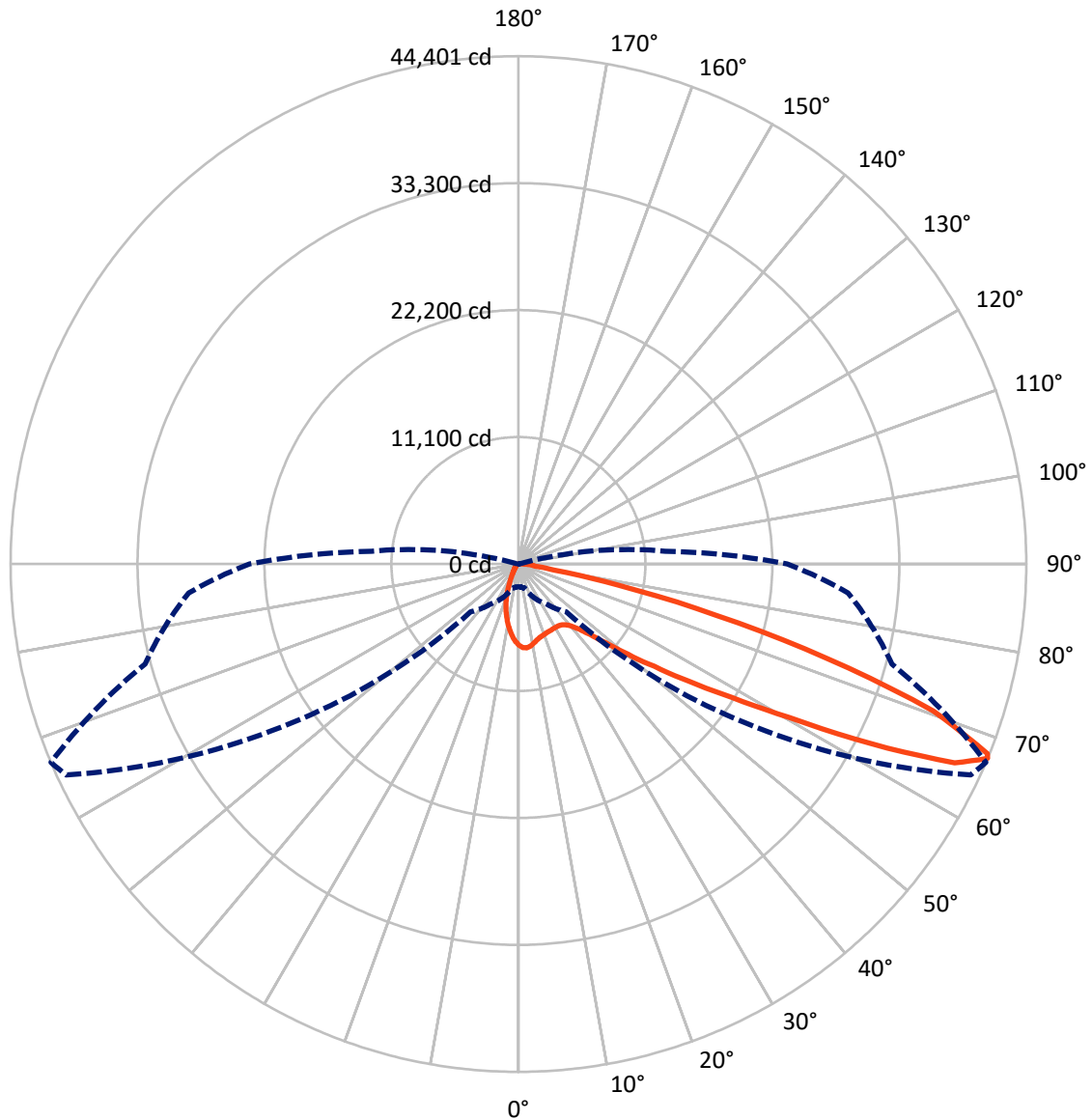


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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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	3347.8	0.0	3347.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28895.2	0.0	28895.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	32243.0	0.0	32243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.6	1.8
10°-20°	1231.5	3.8
20°-30°	1790.4	5.6
30°-40°	2793.2	8.7
40°-50°	4947.9	15.3
50°-60°	7829.6	24.3
60°-70°	8967.8	27.8
70°-80°	3719.8	11.5
80°-90°	384.2	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°	32243.0	100.0
0°-180°	32243.0	100.0

Coefficient of Utilization



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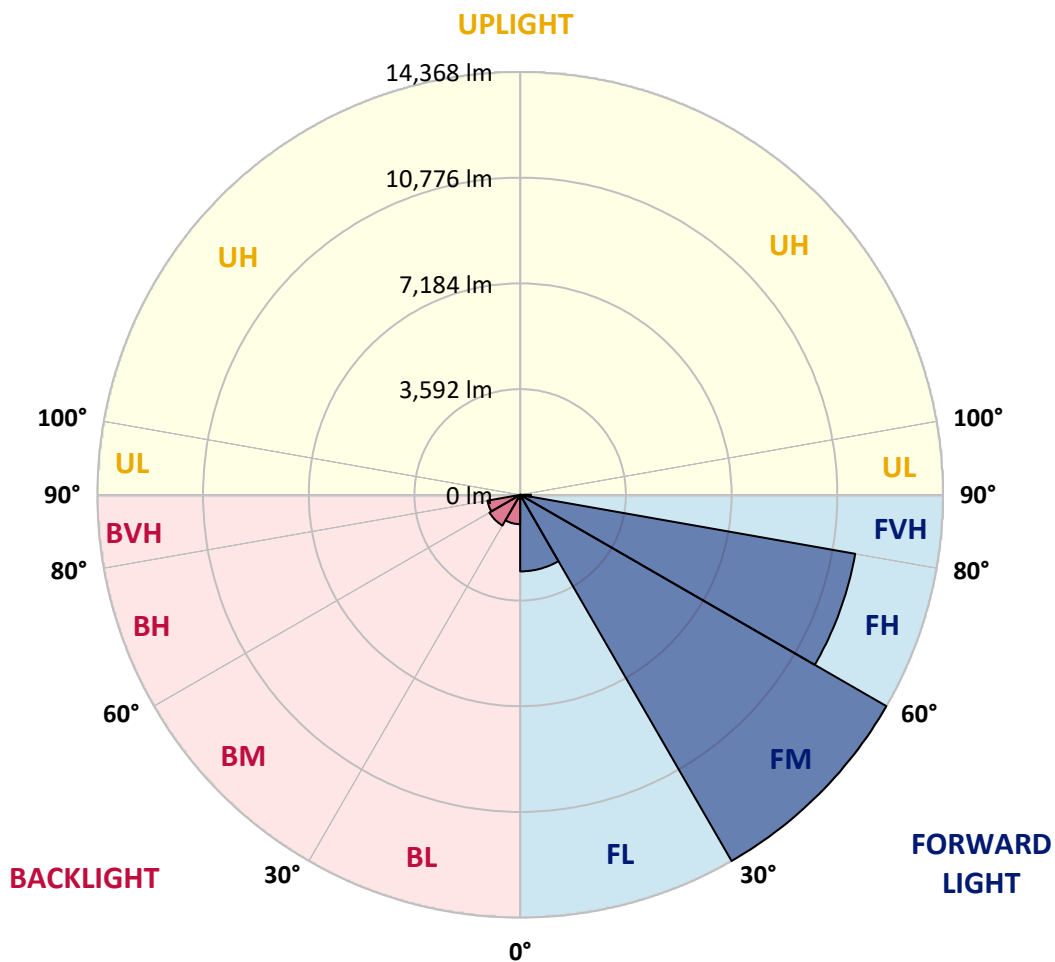
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.5	8.1			
FM (30°-60°)	14367.6	44.6			
FH (60°-80°)	11559.2	35.9			G4/12000
FVH (80°-90°)	366.9	1.1			G3/500
BL (0°-30°)	999.0	3.1	B2/1000		
BM (30°-60°)	1203.2	3.7	B2/2500		
BH (60°-80°)	1128.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8
2.5°	7351.5	7366.5	7364.7	7375.9	7402.3	7404.2	7377.8	7327.0	7315.8	7249.9	7135.2
5°	6779.8	6823.0	6849.4	6956.6	7076.9	7221.7	7330.8	7370.3	7364.7	7317.6	7144.6
7.5°	6127.2	6170.4	6200.5	6326.5	6486.4	6734.6	7018.6	7251.8	7272.5	7323.3	7137.1
10°	5692.8	5700.3	5741.7	5862.0	6029.4	6283.3	6621.8	7029.9	7092.0	7278.2	7118.3
12.5°	5335.4	5341.1	5395.6	5525.4	5704.0	5959.8	6315.3	6787.3	6883.2	7221.7	7114.5
15°	5081.5	5102.2	5151.1	5286.5	5476.5	5730.4	6095.2	6608.6	6723.4	7201.0	7148.4
17.5°	4996.9	5019.5	5034.5	5132.3	5305.3	5553.6	5927.8	6492.0	6621.8	7212.3	7214.2
20°	5085.3	5102.2	5068.4	5092.8	5200.0	5421.9	5786.8	6392.4	6546.6	7225.5	7298.8
22.5°	5414.4	5421.9	5329.8	5222.6	5203.8	5326.0	5675.8	6313.4	6478.9	7261.2	7398.5
25°	5978.6	5965.5	5815.0	5583.7	5365.5	5309.1	5610.0	6264.5	6445.0	7298.8	7501.9
27.5°	6659.4	6678.2	6471.3	6134.7	5719.1	5421.9	5600.6	6243.8	6430.0	7325.2	7592.2
30°	7486.9	7513.2	7276.3	6853.1	6257.0	5700.3	5687.1	6240.0	6420.6	7308.2	7599.7
32.5°	8331.3	8363.3	8177.1	7740.8	6975.4	6166.7	5882.7	6281.4	6439.4	7249.9	7556.5
35°	9215.2	9260.4	9136.2	8762.0	7949.5	6840.0	6226.9	6407.4	6527.8	7244.3	7513.2
37.5°	10435.8	10477.2	10244.0	9847.1	9128.7	7742.7	6779.8	6644.4	6736.5	7334.6	7524.5
40°	12258.1	12252.5	11650.7	11043.2	10424.5	8889.9	7556.5	7073.2	7120.2	7607.3	7663.7
42.5°	14244.1	14234.7	13345.2	12421.8	11863.2	10302.3	8577.7	7814.1	7782.2	8109.4	8024.8
45°	15775.0	15773.1	15047.2	14007.1	13595.3	11923.4	9897.9	8844.7	8795.8	8925.6	8690.5
47.5°	16427.6	16438.8	16074.0	15342.4	15515.4	14116.2	11562.3	10338.0	10264.6	10212.0	9854.7
50°	15919.8	15942.3	15972.4	15829.5	16924.1	17063.2	13794.6	12442.4	12406.7	12171.6	11613.1
52.5°	14261.0	14375.8	14729.3	15182.6	17413.0	19891.7	17294.5	15056.6	14864.7	14614.6	13999.6
55°	11466.4	11592.4	12263.8	13364.0	16685.2	21749.8	22199.3	18426.7	18107.0	17360.4	16472.7
57.5°	7588.5	7784.0	8758.2	10157.4	14571.3	22048.8	27092.8	23103.9	21990.5	19946.3	18945.8
60°	4180.7	4368.8	5425.7	6693.3	10524.2	20570.6	30383.9	29193.5	27226.3	22836.8	21949.2
62.5°	2574.6	2676.2	3456.7	4635.8	6311.5	16235.7	31064.7	36845.9	34568.4	26558.7	25577.0
65°	2049.9	2093.2	2474.9	3789.5	4524.9	9657.2	28866.2	42679.7	41919.9	31064.7	28824.9
67°	1989.7	2006.7	2187.2	3253.5	4265.3	5920.3	24183.4	43629.4	44400.5	33791.7	28926.4
67.5°	2002.9	2021.7	2192.8	3105.0	4257.8	5440.7	22569.8	43255.2	44229.3	34008.0	28476.9
70°	1931.4	1989.7	2510.7	3103.1	4049.1	4521.1	13516.3	37477.8	38491.5	31598.8	24162.7
72.5°	684.6	688.3	1085.1	2510.7	4402.6	4570.0	6787.3	27474.5	28224.9	24172.1	17420.5
75°	406.2	346.0	361.1	714.7	4207.0	4438.4	3915.5	17556.0	17836.2	13851.1	8822.2
77.5°	280.2	244.5	252.0	316.0	1602.3	4376.3	3110.6	9155.0	8856.0	4857.7	1878.8
80°	159.9	141.0	150.5	276.5	583.0	4082.9	2933.8	3712.4	3165.1	823.7	519.1
82.5°	84.6	71.5	86.5	227.6	406.2	2544.5	2939.5	1794.1	1421.8	278.3	353.6
85°	30.1	24.4	41.4	156.1	270.8	780.5	2725.1	1508.3	1184.8	135.4	268.9
87.5°	5.6	5.6	16.9	63.9	109.1	238.8	1611.7	895.2	599.9	80.9	184.3
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°	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8	7110.8
2.5°	7088.2	7007.3	6898.3	6764.7	6606.8	6467.6	6364.2	6257.0	6234.4	6196.8	6191.1
5°	7041.2	6902.0	6631.2	6320.9	5989.9	5690.9	5448.3	5232.0	5136.1	5053.3	5043.9
7.5°	6971.6	6762.9	6302.1	5801.8	5284.7	4814.5	4415.8	4133.7	3874.2	3750.0	3731.2
10°	6890.7	6591.7	5931.6	5237.6	4523.0	3859.1	3266.7	2770.2	2469.3	2290.6	2268.1
12.5°	6815.5	6424.3	5553.6	4652.8	3703.0	2815.3	2053.7	1579.8	1263.8	1135.9	1120.9
15°	6779.8	6288.9	5200.0	4054.7	2845.4	1792.3	1122.8	868.9	765.4	735.3	733.5
17.5°	6776.0	6174.2	4854.0	3436.0	1993.5	1041.9	731.6	667.6	646.9	639.4	639.4
20°	6774.1	6065.1	4507.9	2794.7	1265.7	694.0	609.3	594.3	579.2	569.8	569.8
22.5°	6794.8	5967.3	4146.9	2140.2	797.4	562.3	536.0	520.9	502.1	489.0	487.1
25°	6815.5	5892.1	3778.2	1523.3	577.4	489.0	462.6	442.0	415.6	398.7	396.8
27.5°	6819.3	5798.1	3383.3	1019.3	483.3	426.9	393.1	361.1	331.0	314.1	312.2
30°	6762.9	5640.1	2945.1	688.3	426.9	370.5	325.4	291.5	263.3	250.1	250.1
32.5°	6651.9	5444.5	2463.7	519.1	379.9	317.8	268.9	237.0	218.2	212.5	210.6
35°	6552.2	5233.9	1969.1	440.1	340.4	268.9	220.0	199.3	188.1	186.2	184.3
37.5°	6493.9	5064.6	1504.5	398.7	302.8	225.7	186.2	171.1	165.5	161.7	163.6
40°	6539.1	4923.6	1111.5	364.8	265.2	188.1	158.0	150.5	144.8	142.9	142.9
42.5°	6736.5	4899.1	825.6	334.8	229.4	156.1	137.3	131.6	127.9	126.0	127.9
45°	7255.6	5049.6	641.3	306.5	193.7	131.6	116.6	114.7	112.8	112.8	112.8
47.5°	8036.1	5359.9	534.1	274.6	161.7	112.8	101.6	99.7	97.8	99.7	99.7
50°	9358.2	5927.8	477.7	242.6	133.5	95.9	86.5	86.5	86.5	86.5	88.4
52.5°	11368.6	7044.9	440.1	210.6	109.1	80.9	73.3	73.3	75.2	75.2	77.1
55°	13608.4	8526.9	406.2	178.7	92.2	67.7	60.2	62.1	63.9	65.8	65.8
57.5°	16038.3	10168.7	378.0	146.7	79.0	54.5	50.8	52.7	54.5	58.3	58.3
60°	18970.2	11945.9	336.6	114.7	65.8	43.3	39.5	43.3	48.9	52.7	54.5
62.5°	22189.9	13664.9	284.0	90.3	54.5	33.9	32.0	39.5	47.0	50.8	52.7
65°	24390.3	14204.6	218.2	73.3	41.4	24.4	26.3	35.7	45.1	50.8	50.8
67°	23498.8	12878.8	178.7	62.1	33.9	18.8	24.4	35.7	45.1	48.9	50.8
67.5°	22880.1	12359.7	171.1	60.2	32.0	18.8	24.4	35.7	45.1	50.8	50.8
70°	18616.6	9284.8	142.9	45.1	26.3	16.9	20.7	33.9	43.3	48.9	48.9
72.5°	12935.2	5724.7	127.9	32.0	22.6	15.0	18.8	32.0	41.4	47.0	48.9
75°	6149.8	2072.5	109.1	24.4	20.7	13.2	16.9	32.0	41.4	47.0	47.0
77.5°	1254.4	481.4	88.4	20.7	16.9	13.2	15.0	30.1	39.5	45.1	45.1
80°	411.9	186.2	65.8	18.8	16.9	13.2	15.0	28.2	39.5	43.3	45.1
82.5°	297.1	94.0	43.3	18.8	16.9	13.2	13.2	28.2	37.6	43.3	43.3
85°	227.6	65.8	28.2	18.8	16.9	13.2	13.2	26.3	35.7	41.4	41.4
87.5°	150.5	26.3	22.6	18.8	16.9	13.2	13.2	26.3	33.9	39.5	41.4
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)