

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: P191933

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25416 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 279
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

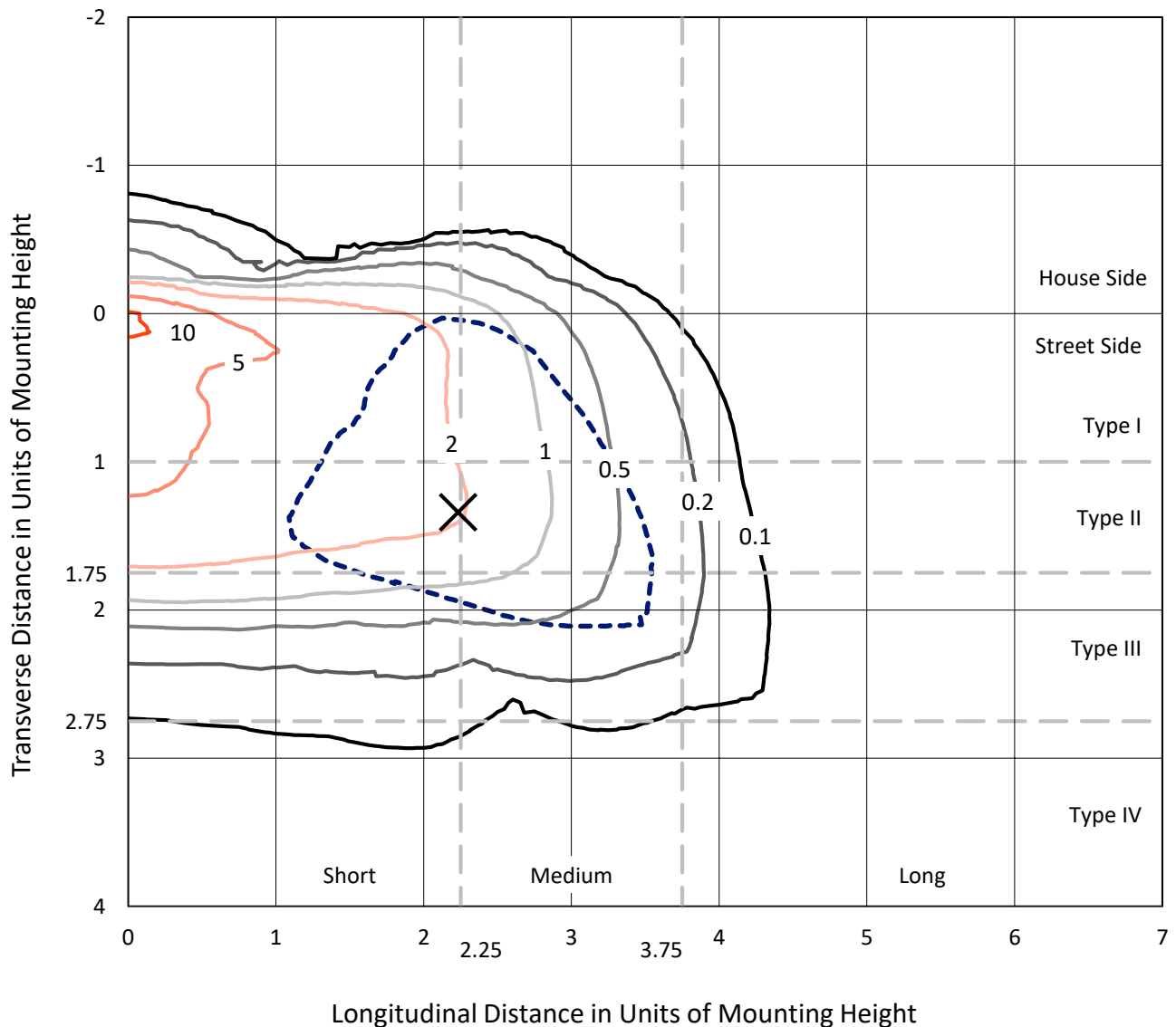


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

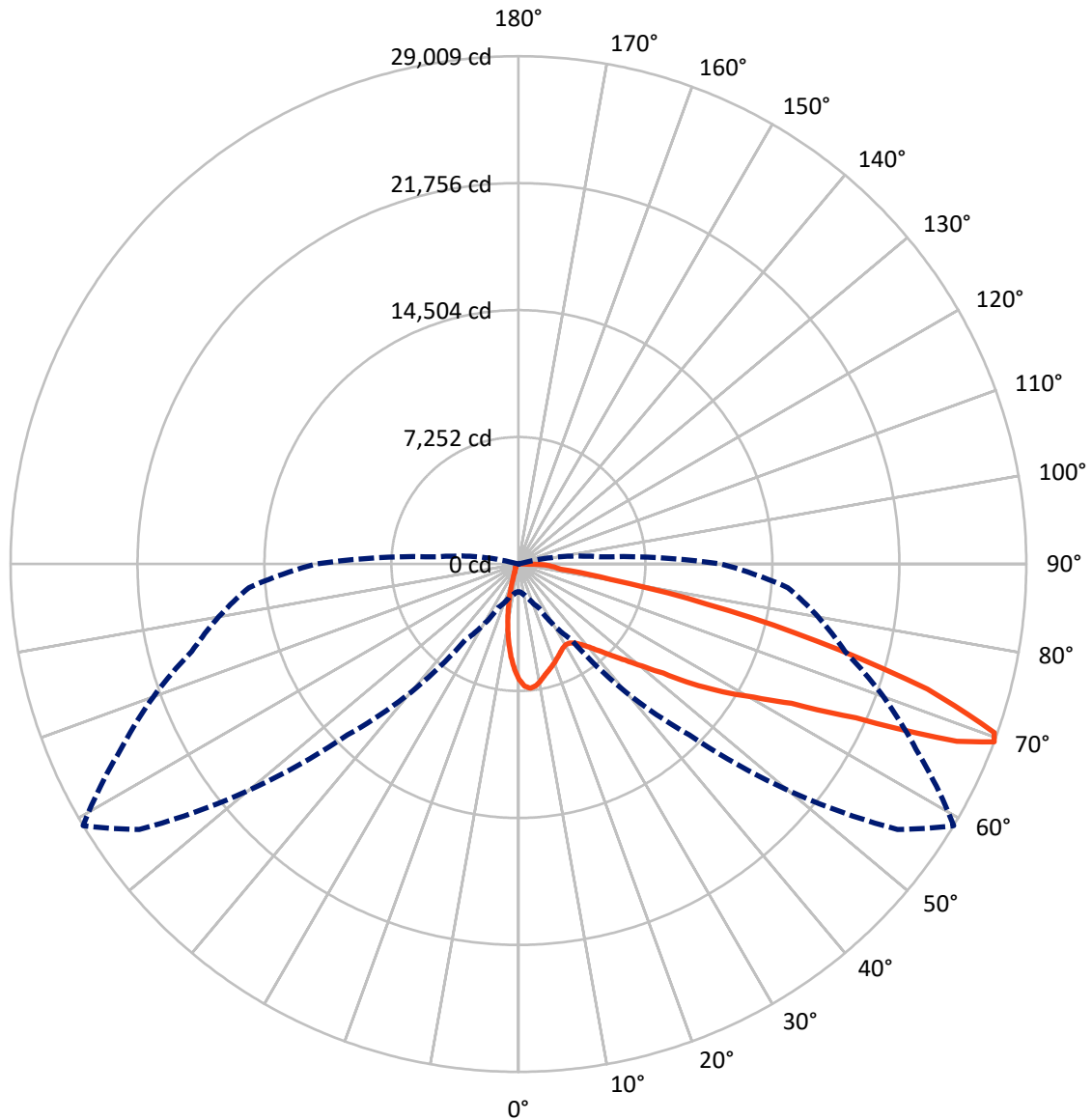


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.8	0.0	2069.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23346.2	0.0	23346.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	25416.0	0.0	25416.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.0	2.1
10°-20°	1109.5	4.4
20°-30°	1493.0	5.9
30°-40°	2167.8	8.5
40°-50°	3609.5	14.2
50°-60°	5630.8	22.2
60°-70°	6967.7	27.4
70°-80°	3531.1	13.9
80°-90°	369.5	1.5
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°	25416.0	100.0
0°-180°	25416.0	100.0



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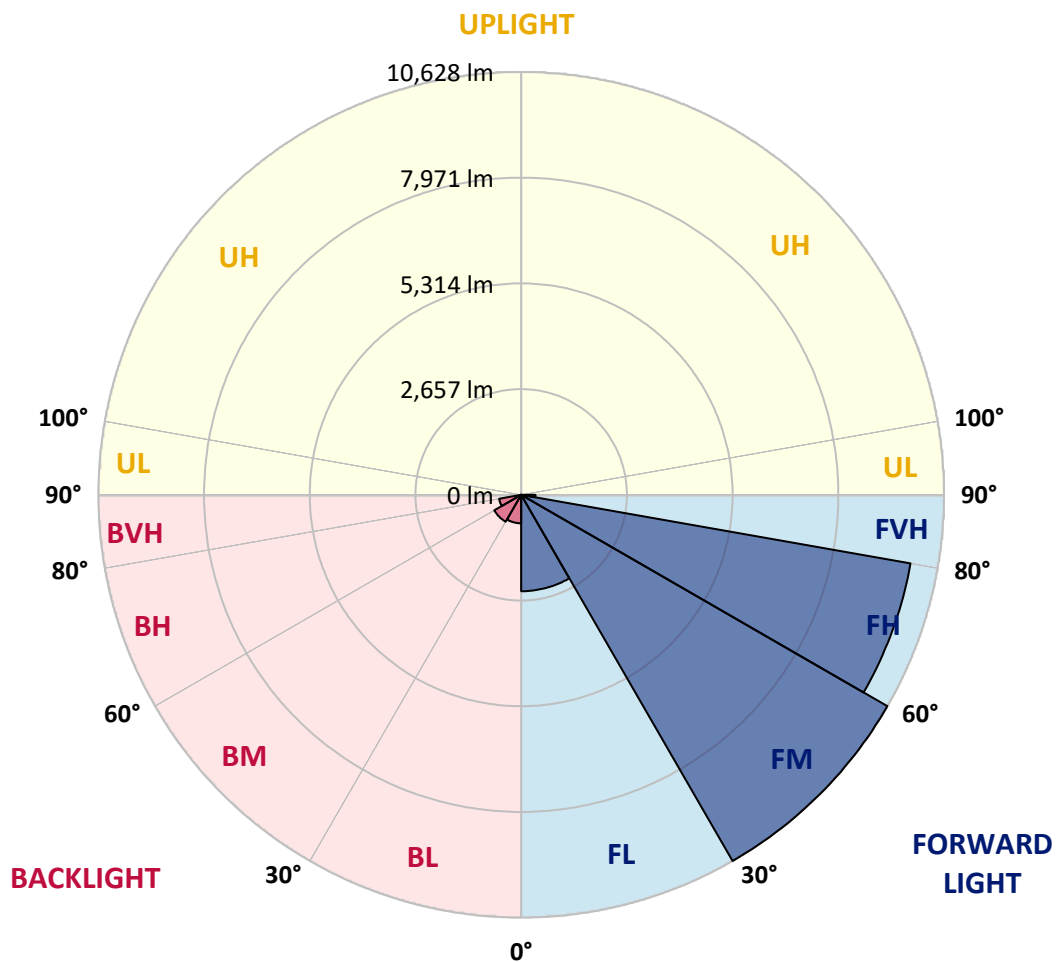
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2423.1	9.5			
FM	(30°-60°)	10628.2	41.8			
FH	(60°-80°)	9936.7	39.1			G4/12000
FVH	(80°-90°)	358.1	1.4			G3/500
BL	(0°-30°)	716.4	2.8	B2/1000		
BM	(30°-60°)	779.9	3.1	B1/1000		
BH	(60°-80°)	562.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4
2.5°	7250.7	7247.8	7216.2	7201.8	7175.9	7121.3	7036.5	6992.0	6920.1	6795.1	6626.9
5°	7184.6	7219.1	7237.7	7239.2	7257.9	7237.7	7161.6	7124.2	7025.0	6823.8	6522.0
7.5°	6736.2	6749.1	6802.3	6848.3	6937.4	7022.2	7049.5	7033.7	6974.7	6759.2	6358.2
10°	6256.1	6269.1	6332.3	6392.7	6513.4	6644.2	6782.1	6810.9	6835.3	6667.2	6200.1
12.5°	5842.2	5855.2	5919.8	5998.9	6139.7	6300.7	6514.8	6562.3	6670.0	6579.5	6073.6
15°	5485.8	5491.5	5554.8	5652.5	5820.7	6027.6	6270.5	6346.7	6512.0	6517.7	5962.9
17.5°	5182.5	5196.9	5235.7	5329.1	5513.1	5768.9	6052.1	6161.3	6355.3	6466.0	5855.2
20°	4997.1	5011.5	5010.1	5061.8	5227.1	5500.2	5833.6	5964.4	6200.1	6412.8	5758.9
22.5°	4961.2	4961.2	4923.8	4916.7	5014.4	5242.9	5606.5	5766.0	6060.7	6389.8	5691.3
25°	5089.1	5083.4	4990.0	4913.8	4918.1	5054.6	5386.6	5576.3	5942.8	6405.6	5655.4
27.5°	5359.3	5352.1	5234.3	5089.1	4972.7	4971.3	5219.9	5424.0	5849.4	6480.3	5669.8
30°	5733.0	5730.1	5602.2	5419.7	5208.4	5014.4	5162.4	5347.8	5789.0	6615.4	5702.8
32.5°	6141.2	6136.8	6040.6	5848.0	5580.6	5208.4	5222.8	5378.0	5806.3	6795.1	5783.3
35°	6573.8	6566.6	6524.9	6356.7	6062.1	5566.3	5421.1	5541.8	5915.5	7063.8	5941.4
37.5°	7042.3	7049.5	7079.6	6918.7	6609.7	6067.9	5753.1	5835.0	6135.4	7428.9	6198.6
40°	7733.6	7732.1	7742.2	7530.9	7233.4	6681.5	6217.3	6243.2	6503.3	7913.2	6589.6
42.5°	8988.3	8900.6	8634.7	8203.5	7904.6	7382.9	6802.3	6775.0	6953.2	8512.5	7137.1
45°	10674.1	10487.3	9797.4	8971.0	8588.7	8173.4	7522.3	7434.6	7548.2	9232.6	7812.6
47.5°	12124.2	11930.2	10954.3	9770.1	9314.5	8923.6	8365.9	8207.9	8245.2	10038.8	8669.2
50°	12617.2	12522.3	11670.1	10465.7	10017.3	9867.8	9344.7	9152.1	9098.9	10971.6	9662.3
52.5°	12446.2	12439.0	11871.3	10917.0	10661.2	10845.1	10576.4	10353.6	10158.1	11954.6	10672.7
55°	12171.7	12207.6	11953.2	11312.2	11303.6	11737.6	12260.8	12075.4	11509.1	13022.5	11543.6
57.5°	11414.2	11568.0	11907.2	12059.5	12413.1	12857.2	13663.5	13772.7	13103.0	13840.2	12266.5
60°	9261.3	9599.1	10708.6	12167.3	13843.1	14949.8	15356.5	15449.9	14410.8	14520.0	13242.4
62.5°	6573.8	6918.7	8325.7	10793.4	13864.7	17699.1	17878.8	17512.3	15850.9	15527.5	14925.3
65°	3489.5	3755.4	4905.2	7791.1	12020.7	18337.2	22289.5	21197.3	18391.9	17509.4	17099.8
67.5°	1785.0	1865.5	2322.5	3812.9	8263.9	16287.8	26243.3	27012.2	22771.0	19475.5	16994.9
69°	1579.5	1626.9	1930.2	2756.6	5291.8	13795.7	26435.9	29008.5	25063.3	19311.7	15444.2
70°	1529.2	1570.9	1846.8	2495.0	4136.3	11569.5	25698.6	28833.1	25649.7	18687.9	14285.8
72.5°	1297.8	1333.7	1644.2	2204.7	3361.6	5743.1	20875.3	24432.4	23016.8	15567.8	10340.7
75°	868.1	985.9	1578.0	2066.7	3127.3	3262.4	13762.6	17656.0	16401.3	10500.2	5386.6
77.5°	208.4	224.2	445.5	1644.2	2860.0	2871.5	7078.2	10975.9	8952.3	3742.5	1273.4
80°	112.1	107.8	125.0	326.2	2663.1	2694.8	3186.3	5327.7	3196.3	620.9	419.7
82.5°	79.0	74.7	80.5	136.5	837.9	2454.7	2305.3	2411.6	1325.1	238.6	188.3
85°	28.7	27.3	44.6	123.6	263.0	1411.3	2368.5	1989.1	1073.6	109.2	138.0
87.5°	10.1	8.6	17.2	67.5	80.5	600.7	1461.6	1503.3	422.5	66.1	64.7
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°	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4	6615.4
2.5°	6556.5	6467.4	6303.6	6135.4	5980.2	5793.4	5699.9	5608.0	5569.2	5554.8	5487.2
5°	6366.8	6215.9	5868.1	5518.8	5196.9	4854.9	4629.2	4448.1	4341.8	4290.0	4208.1
7.5°	6123.9	5876.7	5349.3	4810.3	4308.7	3814.3	3447.8	3166.2	2972.1	2878.7	2793.9
10°	5888.2	5559.1	4808.9	4074.5	3393.2	2737.9	2232.0	1865.5	1631.2	1523.4	1454.4
12.5°	5676.9	5250.1	4287.2	3357.3	2502.2	1734.7	1220.2	928.4	783.3	733.0	708.5
15°	5488.7	4965.5	3794.2	2676.1	1694.5	991.7	666.9	567.7	544.7	544.7	541.8
17.5°	5310.5	4686.7	3318.5	2036.5	1063.5	606.5	507.3	494.4	494.4	500.1	500.1
20°	5139.4	4420.8	2858.6	1461.6	669.7	481.5	458.5	455.6	458.5	465.7	465.7
22.5°	4992.8	4179.4	2428.9	1003.2	497.3	434.0	422.5	418.2	419.7	424.0	426.8
25°	4883.6	3975.3	2023.6	679.8	428.3	395.2	382.3	375.1	369.4	369.4	372.2
27.5°	4814.6	3802.8	1631.2	494.4	385.2	359.3	339.2	327.7	314.7	307.6	310.4
30°	4764.3	3639.0	1263.3	403.9	344.9	319.1	293.2	274.5	255.8	247.2	250.1
32.5°	4745.6	3506.8	944.2	356.4	309.0	280.3	248.6	224.2	204.1	196.9	198.3
35°	4795.9	3401.9	691.3	321.9	280.3	244.3	208.4	181.1	165.3	161.0	162.4
37.5°	4928.2	3345.8	517.4	293.2	254.4	214.1	173.9	148.0	138.0	138.0	139.4
40°	5178.2	3344.4	415.4	273.1	231.4	185.4	143.7	125.0	119.3	122.2	123.6
42.5°	5543.3	3420.5	362.2	254.4	211.3	158.1	119.3	106.4	104.9	107.8	109.2
45°	6042.0	3559.9	333.4	238.6	189.7	132.2	100.6	92.0	92.0	96.3	97.7
47.5°	6652.8	3764.0	309.0	222.8	168.2	110.7	86.2	80.5	81.9	86.2	87.7
50°	7388.6	4021.3	284.6	205.5	152.3	92.0	74.7	70.4	71.9	77.6	79.0
52.5°	8226.5	4367.7	264.4	189.7	132.2	76.2	63.2	60.4	63.2	69.0	70.4
55°	8945.1	4678.1	240.0	176.8	106.4	63.2	51.7	51.7	54.6	61.8	63.2
57.5°	9636.4	5002.9	218.5	152.3	83.4	50.3	43.1	44.6	48.9	56.1	57.5
60°	10651.1	5553.3	192.6	127.9	63.2	40.2	35.9	37.4	43.1	50.3	51.7
62.5°	12374.3	6391.2	166.7	106.4	48.9	31.6	28.7	31.6	38.8	47.4	48.9
65°	13929.3	6731.8	136.5	89.1	37.4	24.4	24.4	28.7	37.4	46.0	47.4
67.5°	13062.7	5666.9	106.4	70.4	28.7	18.7	20.1	27.3	35.9	46.0	47.4
69°	11552.2	4633.5	90.5	56.1	24.4	17.2	18.7	27.3	35.9	44.6	46.0
70°	10375.1	3912.1	80.5	47.4	21.6	17.2	18.7	25.9	35.9	44.6	46.0
72.5°	6948.9	2112.7	64.7	34.5	20.1	15.8	15.8	25.9	34.5	43.1	44.6
75°	2986.5	583.5	51.7	24.4	17.2	14.4	14.4	24.4	33.1	41.7	44.6
77.5°	546.1	148.0	41.7	21.6	17.2	14.4	12.9	23.0	31.6	40.2	41.7
80°	217.0	73.3	33.1	18.7	15.8	12.9	11.5	21.6	30.2	38.8	40.2
82.5°	130.8	41.7	27.3	17.2	15.8	11.5	10.1	18.7	28.7	37.4	38.8
85°	106.4	28.7	21.6	17.2	14.4	11.5	8.6	17.2	25.9	35.9	37.4
87.5°	51.7	20.1	20.1	15.8	14.4	11.5	8.6	15.8	24.4	34.5	35.9
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)