

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: P299995

Luminaire Tested: **GLNA-AF-08-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28929.6 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

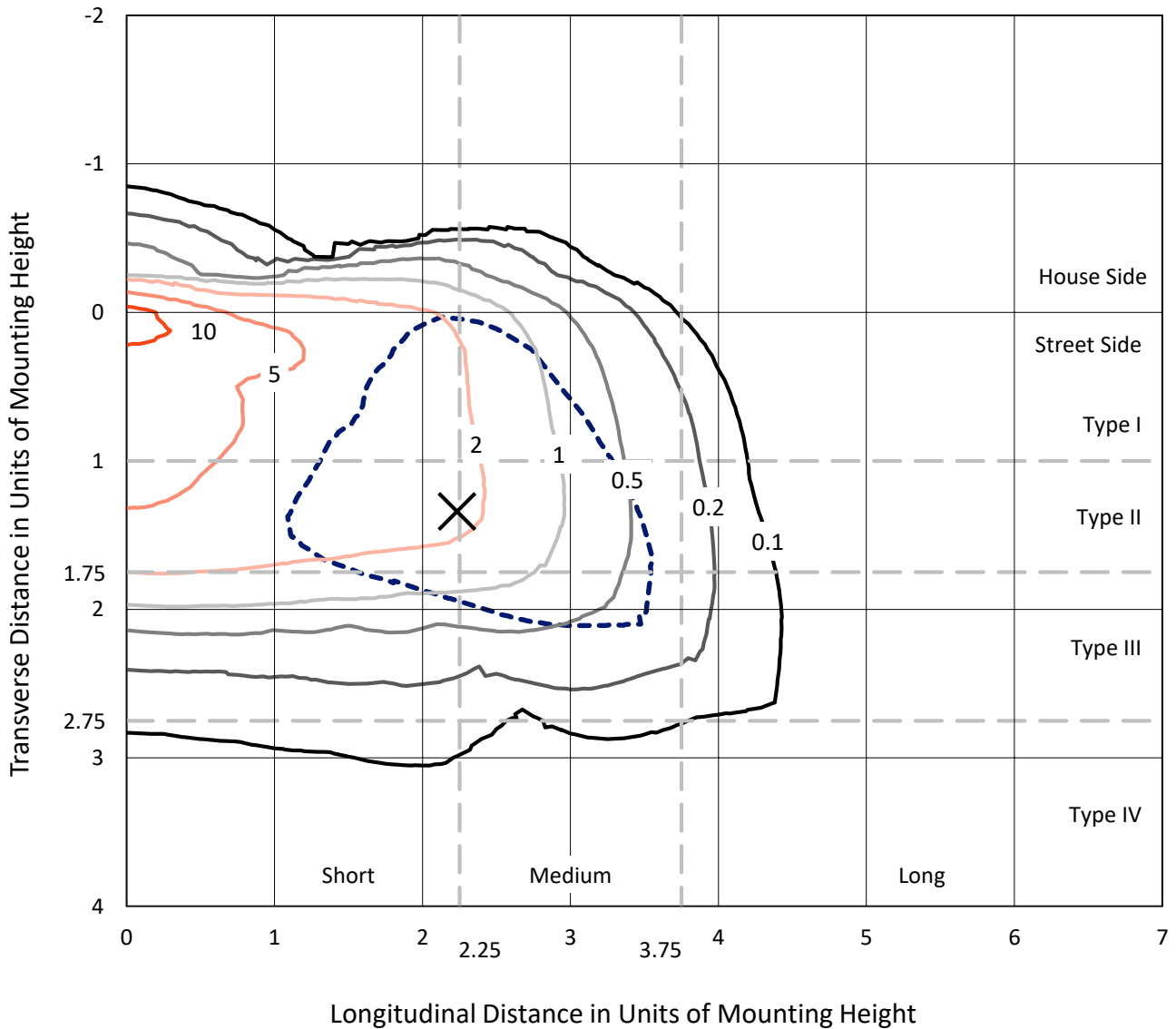


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

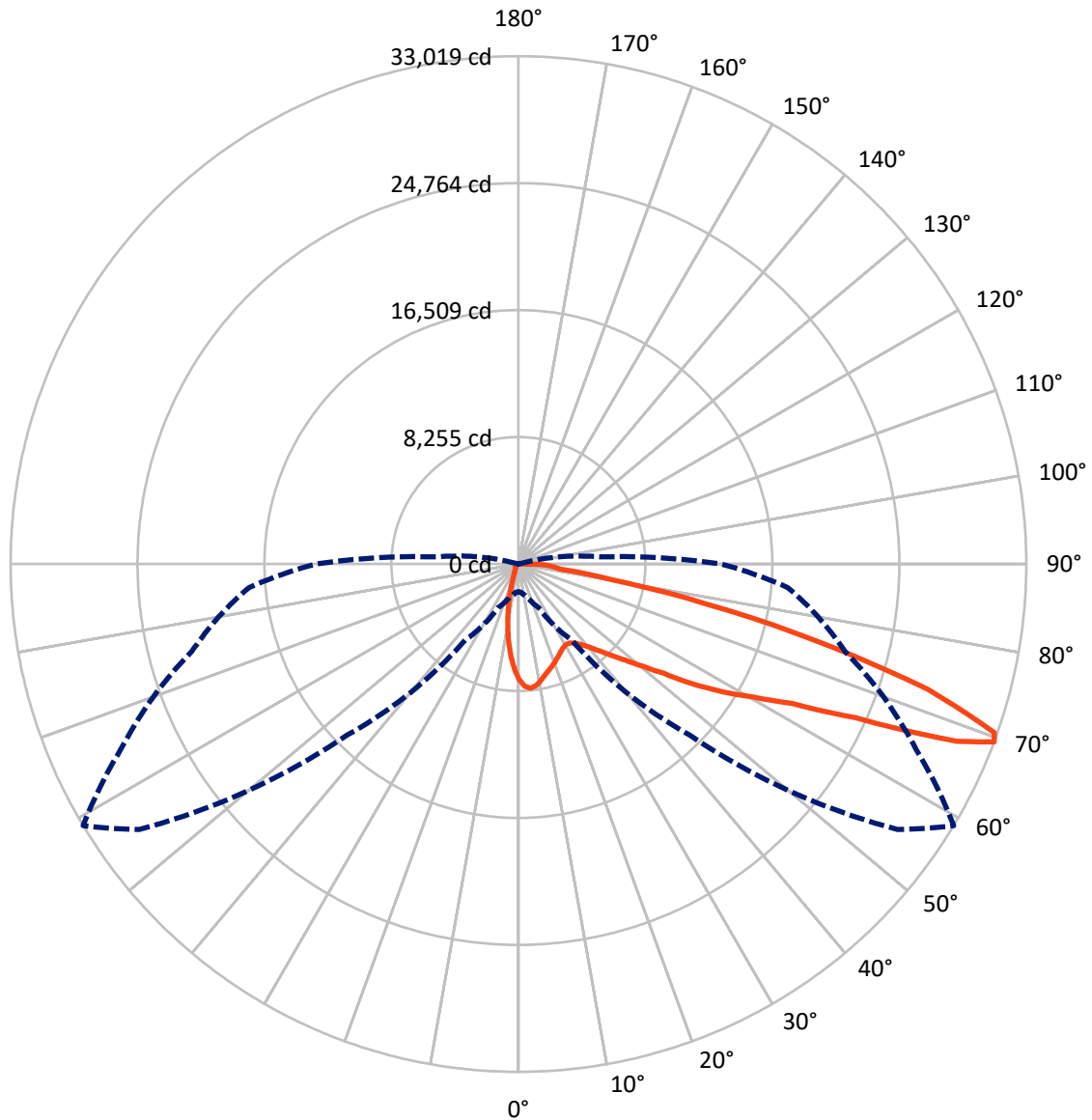


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - Non-Cutoff

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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	2355.9	0.0	2355.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26573.7	0.0	26573.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	28929.6	0.0	28929.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.2	2.1
10°-20°	1262.9	4.4
20°-30°	1699.4	5.9
30°-40°	2467.5	8.5
40°-50°	4108.5	14.2
50°-60°	6409.2	22.2
60°-70°	7931.0	27.4
70°-80°	4019.3	13.9
80°-90°	420.6	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°	28929.6	100.0
0°-180°	28929.6	100.0



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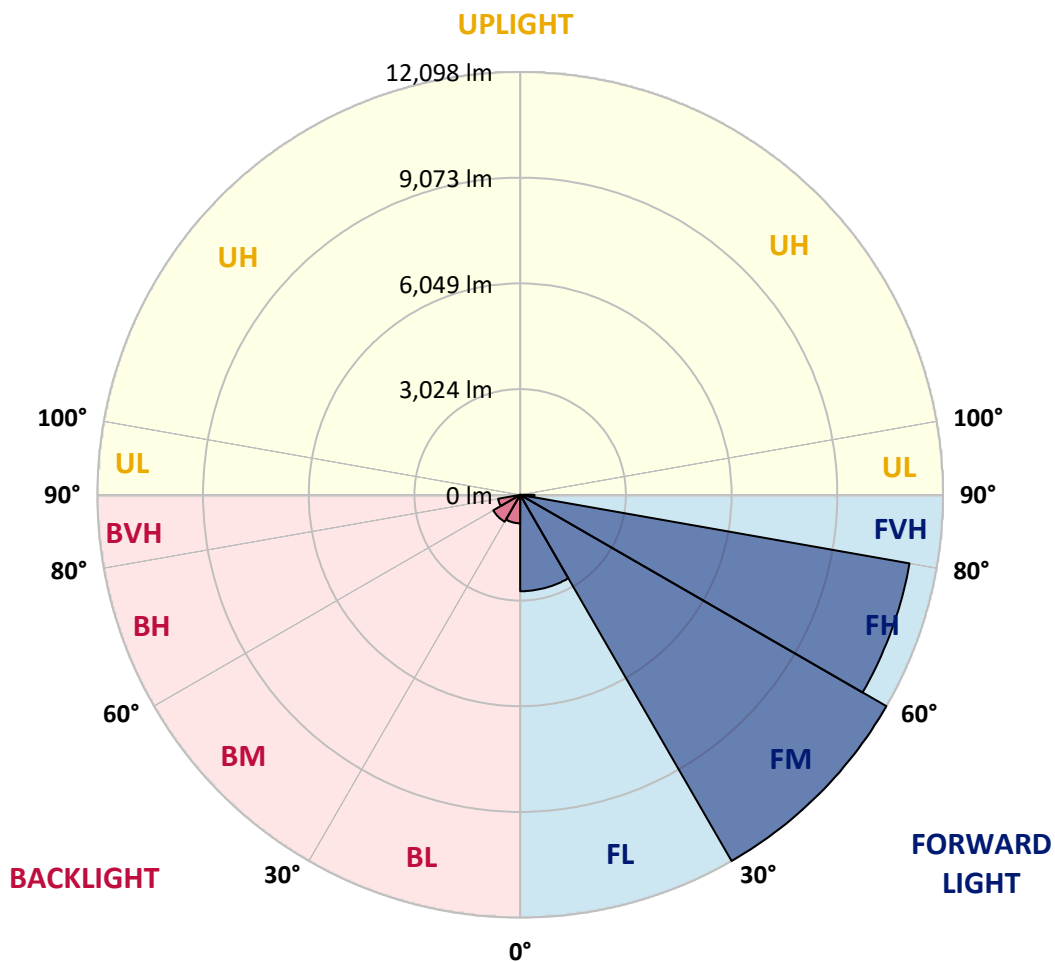
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2758.1	9.5			
FM	(30°-60°)	12097.5	41.8			
FH	(60°-80°)	11310.5	39.1			G4/12000
FVH	(80°-90°)	407.6	1.4			G3/500
BL	(0°-30°)	815.5	2.8	B2/1000		
BM	(30°-60°)	887.7	3.1	B1/1000		
BH	(60°-80°)	639.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.9	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°	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8
2.5°	8252.9	8250.0	8213.8	8197.5	8167.8	8105.8	8009.3	7958.7	7877.0	7734.4	7543.2
5°	8177.7	8217.3	8238.1	8240.1	8261.4	8238.1	8151.4	8109.3	7996.4	7767.1	7423.8
7.5°	7667.5	7681.9	7742.8	7794.8	7896.3	7992.9	8024.1	8005.8	7938.9	7693.8	7237.1
10°	7121.2	7135.6	7207.9	7276.2	7413.9	7562.5	7719.5	7752.7	7780.4	7588.8	7057.3
12.5°	6649.7	6664.6	6738.4	6828.0	6988.5	7171.7	7415.4	7469.4	7592.2	7489.2	6913.2
15°	6244.1	6250.5	6322.8	6433.8	6625.4	6860.7	7137.6	7224.2	7412.4	7418.9	6787.4
17.5°	5898.9	5915.2	5959.8	6065.8	6275.3	6566.5	6888.9	7013.2	7233.7	7359.9	6664.6
20°	5687.9	5704.2	5702.7	5761.7	5949.9	6260.4	6640.3	6788.9	7057.3	7299.5	6555.1
22.5°	5647.2	5647.2	5604.7	5596.2	5707.7	5967.7	6381.8	6563.0	6898.3	7273.3	6478.3
25°	5792.9	5785.9	5679.9	5593.3	5598.2	5753.2	6131.1	6347.1	6764.6	7291.1	6437.2
27.5°	6100.4	6092.0	5957.8	5792.9	5660.1	5658.6	5941.4	6173.7	6658.1	7376.3	6453.6
30°	6525.4	6522.4	6376.8	6168.8	5928.6	5707.7	5876.1	6087.1	6589.3	7529.8	6491.2
32.5°	6990.0	6985.0	6875.6	6656.6	6352.0	5928.6	5944.9	6121.7	6609.1	7734.4	6582.8
35°	7482.8	7474.4	7426.8	7235.6	6900.3	6335.7	6170.8	6308.0	6733.4	8040.5	6762.6
37.5°	8015.7	8024.1	8058.3	7875.0	7523.4	6906.8	6548.7	6641.8	6983.5	8456.0	7055.3
40°	8802.7	8801.2	8812.6	8571.9	8233.6	7605.1	7076.6	7106.4	7402.5	9007.3	7500.6
42.5°	10230.6	10131.1	9828.5	9337.6	8997.4	8403.5	7742.8	7711.6	7914.7	9689.3	8123.7
45°	12149.9	11936.9	11151.9	10211.3	9776.0	9303.4	8562.0	8462.5	8591.7	10509.0	8892.9
47.5°	13800.2	13579.3	12468.8	11120.7	10602.1	10157.3	9522.4	9342.6	9385.2	11426.7	9867.6
50°	14361.3	14253.3	13283.6	11912.6	11402.0	11232.1	10636.8	10417.3	10356.9	12488.1	10997.8
52.5°	14166.7	14158.7	13512.4	12426.2	12135.0	12344.5	12038.4	11784.8	11562.4	13607.5	12147.9
55°	13854.1	13895.2	13605.5	12875.9	12866.0	13360.3	13955.7	13744.7	13100.3	14822.9	13139.4
57.5°	12992.3	13167.2	13553.5	13726.8	14129.0	14634.7	15552.5	15676.8	14914.5	15753.6	13962.1
60°	10541.7	10926.0	12189.0	13849.2	15757.0	17016.5	17479.6	17585.6	16402.9	16527.2	15073.0
62.5°	7482.8	7875.0	9476.8	12285.6	15781.3	20145.8	20350.3	19933.3	18042.3	17674.3	16988.8
65°	3971.7	4274.8	5583.4	8868.1	13682.8	20872.3	25371.0	24127.9	20934.2	19929.8	19463.7
67.5°	2031.7	2123.3	2643.8	4340.2	9406.5	18539.5	29871.2	30746.4	25918.8	22168.0	19344.4
69°	1797.9	1851.9	2197.1	3137.6	6023.2	15703.0	30090.6	33018.7	28528.5	21981.3	17579.2
70°	1740.4	1788.0	2102.0	2840.0	4708.2	13168.7	29251.1	32819.1	29195.6	21271.5	16260.7
72.5°	1477.4	1518.1	1871.7	2509.6	3826.6	6536.8	23761.3	27810.3	26198.6	17719.8	11770.0
75°	988.1	1122.3	1796.4	2352.6	3559.6	3713.7	15665.4	20096.7	18668.8	11951.7	6131.1
77.5°	237.2	255.1	507.2	1871.7	3255.5	3268.4	8056.8	12493.1	10190.0	4260.0	1449.2
80°	127.8	122.8	142.1	371.5	3031.1	3067.3	3627.0	6064.3	3638.4	706.8	477.5
82.5°	90.1	85.2	91.6	155.5	953.9	2793.9	2624.0	2744.9	1508.1	271.4	214.5
85°	32.7	31.2	50.5	140.7	299.2	1606.2	2695.8	2264.0	1221.9	124.3	157.0
87.5°	11.4	9.9	19.8	76.8	91.6	684.0	1663.7	1711.2	480.9	75.3	73.8
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°	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8	7529.8
2.5°	7463.0	7361.4	7175.2	6983.5	6806.7	6594.2	6487.7	6383.2	6339.2	6322.8	6246.1
5°	7247.0	7075.2	6679.4	6281.7	5915.2	5525.9	5269.3	5063.3	4942.0	4883.0	4789.9
7.5°	6970.7	6689.3	6088.5	5475.4	4904.3	4341.7	3924.6	3603.7	3382.8	3276.8	3180.2
10°	6702.2	6327.8	5473.9	4637.9	3862.2	3116.3	2540.3	2123.3	1856.8	1734.0	1655.7
12.5°	6462.0	5976.1	4880.1	3821.6	2847.9	1974.7	1388.8	1056.9	891.5	834.1	806.3
15°	6247.5	5652.2	4318.9	3046.0	1928.6	1128.8	759.3	646.3	620.1	620.1	616.6
17.5°	6044.5	5334.7	3777.1	2317.9	1210.5	690.4	577.5	562.6	562.6	569.1	569.1
20°	5849.8	5032.1	3253.5	1663.7	762.2	547.8	522.0	518.6	522.0	530.0	530.0
22.5°	5682.9	4757.2	2764.7	1141.6	566.1	493.8	480.9	476.0	477.5	482.4	485.9
25°	5558.6	4524.9	2303.6	773.6	487.4	449.7	435.4	426.9	420.5	420.5	423.5
27.5°	5480.3	4328.8	1856.8	562.6	438.3	409.1	385.8	373.0	358.1	350.2	353.1
30°	5422.9	4142.1	1437.8	459.6	392.8	363.0	333.8	312.5	291.2	281.3	284.8
32.5°	5401.6	3991.5	1074.8	405.6	351.7	319.0	282.8	255.1	232.3	223.9	225.9
35°	5459.0	3872.1	787.0	366.5	319.0	277.9	237.2	206.0	188.2	183.3	184.7
37.5°	5609.6	3808.3	588.9	333.8	289.7	243.7	198.1	168.4	157.0	157.0	158.5
40°	5893.9	3806.8	473.0	311.0	263.5	211.0	163.4	142.1	135.7	139.2	140.7
42.5°	6309.4	3893.4	412.1	289.7	240.7	179.8	135.7	120.8	119.4	122.8	124.3
45°	6877.0	4051.9	379.4	271.4	215.9	150.6	114.4	104.5	104.5	109.5	111.4
47.5°	7572.4	4284.2	351.7	253.6	191.2	125.8	98.1	91.6	93.1	98.1	99.6
50°	8410.0	4577.4	323.9	233.8	173.4	104.5	85.2	80.2	81.7	88.2	90.1
52.5°	9363.9	4971.7	301.1	215.9	150.6	86.7	71.8	68.8	71.8	78.8	80.2
55°	10181.6	5324.8	273.4	201.1	120.8	71.8	58.9	58.9	62.4	70.3	71.8
57.5°	10968.6	5694.3	248.6	173.4	95.1	57.5	49.0	50.5	55.5	63.9	65.4
60°	12123.6	6320.8	219.4	145.6	71.8	45.6	41.1	42.6	49.0	57.5	58.9
62.5°	14084.9	7274.8	189.7	120.8	55.5	36.2	32.7	36.2	44.1	54.0	55.5
65°	15855.1	7662.6	155.5	101.5	42.6	27.7	27.7	32.7	42.6	52.5	54.0
67.5°	14868.5	6450.1	120.8	80.2	32.7	21.3	22.8	31.2	41.1	52.5	54.0
69°	13149.3	5274.3	103.0	63.9	27.7	19.8	21.3	31.2	41.1	50.5	52.5
70°	11809.6	4453.1	91.6	54.0	24.8	19.8	21.3	29.2	41.1	50.5	52.5
72.5°	7909.7	2404.6	73.8	39.1	22.8	17.8	17.8	29.2	39.1	49.0	50.5
75°	3399.1	664.2	58.9	27.7	19.8	16.3	16.3	27.7	37.6	47.5	50.5
77.5°	621.6	168.4	47.5	24.8	19.8	16.3	14.9	26.3	36.2	45.6	47.5
80°	247.1	83.2	37.6	21.3	17.8	14.9	12.9	24.8	34.2	44.1	45.6
82.5°	149.1	47.5	31.2	19.8	17.8	12.9	11.4	21.3	32.7	42.6	44.1
85°	120.8	32.7	24.8	19.8	16.3	12.9	9.9	19.8	29.2	41.1	42.6
87.5°	58.9	22.8	22.8	17.8	16.3	12.9	9.9	17.8	27.7	39.1	41.1
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)