

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-10-LED-E1-SL3-7030-600-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-10-LED-E1-SL3-7030-600-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 600mA 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: 29134.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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

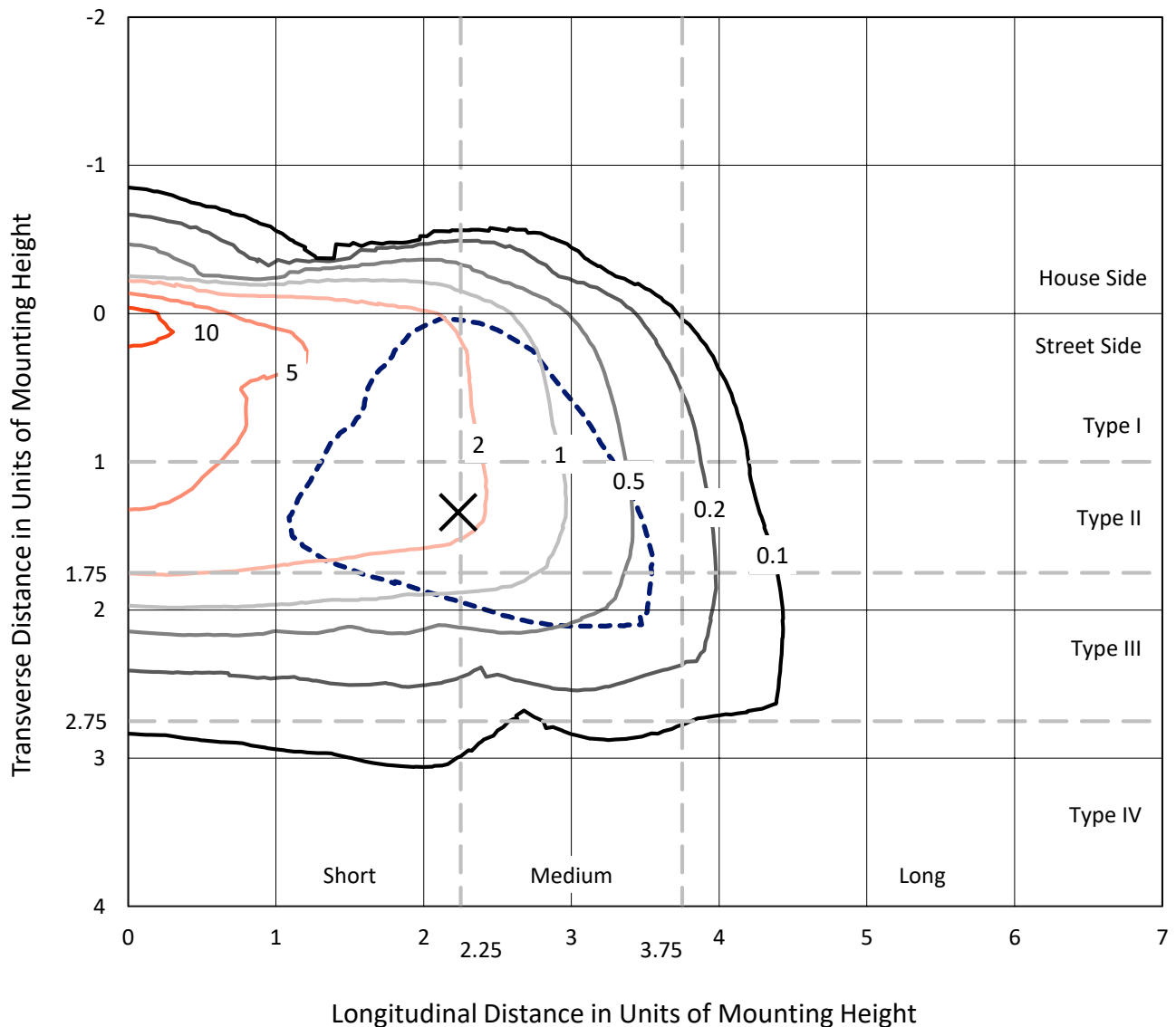


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

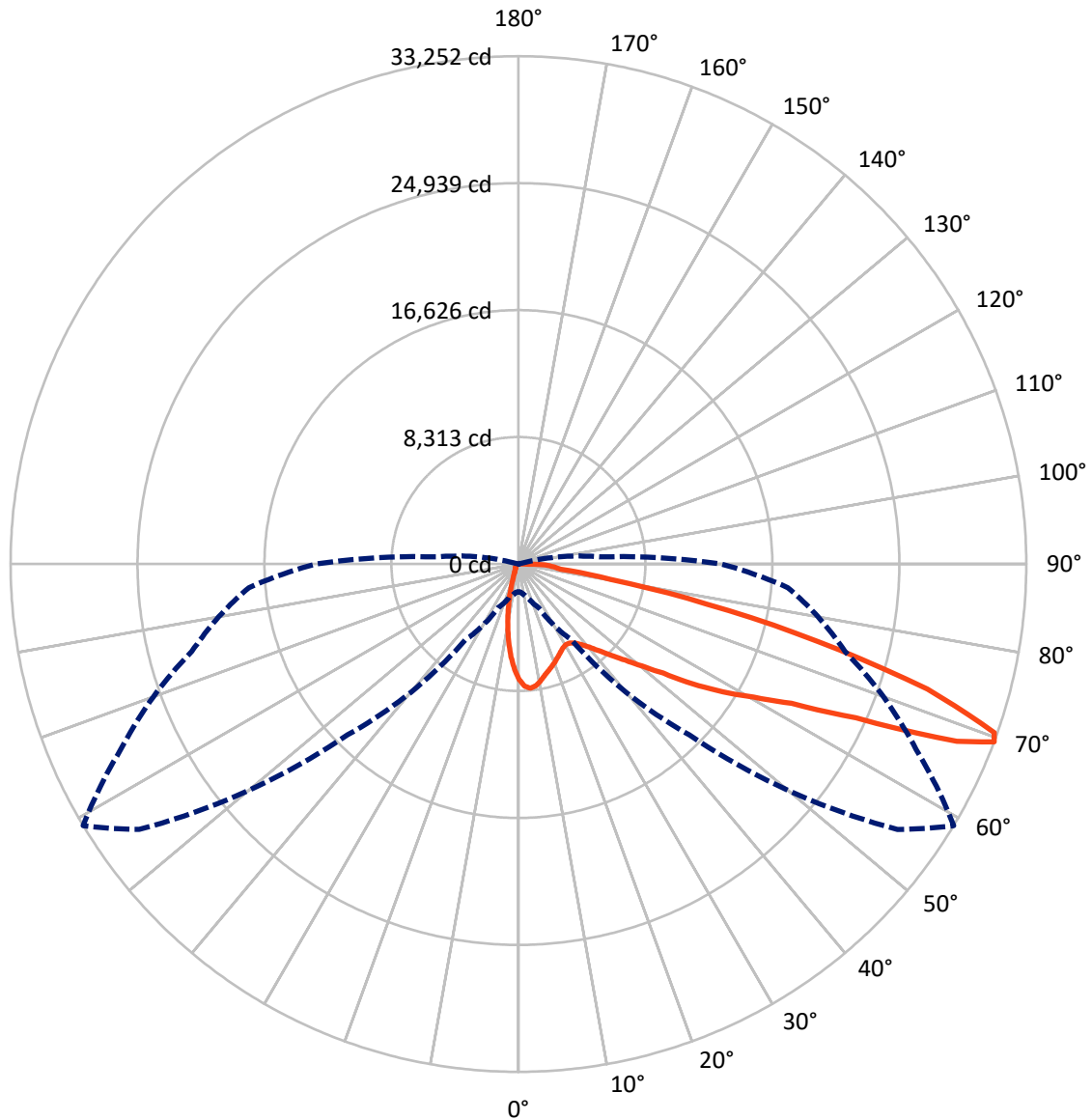


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - Non-Cutoff

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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	2372.6	0.0	2372.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26761.8	0.0	26761.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	29134.3	0.0	29134.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.5	2.1
10°-20°	1271.9	4.4
20°-30°	1711.5	5.9
30°-40°	2484.9	8.5
40°-50°	4137.6	14.2
50°-60°	6454.6	22.2
60°-70°	7987.1	27.4
70°-80°	4047.8	13.9
80°-90°	423.5	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°	29134.3	100.0
0°-180°	29134.3	100.0



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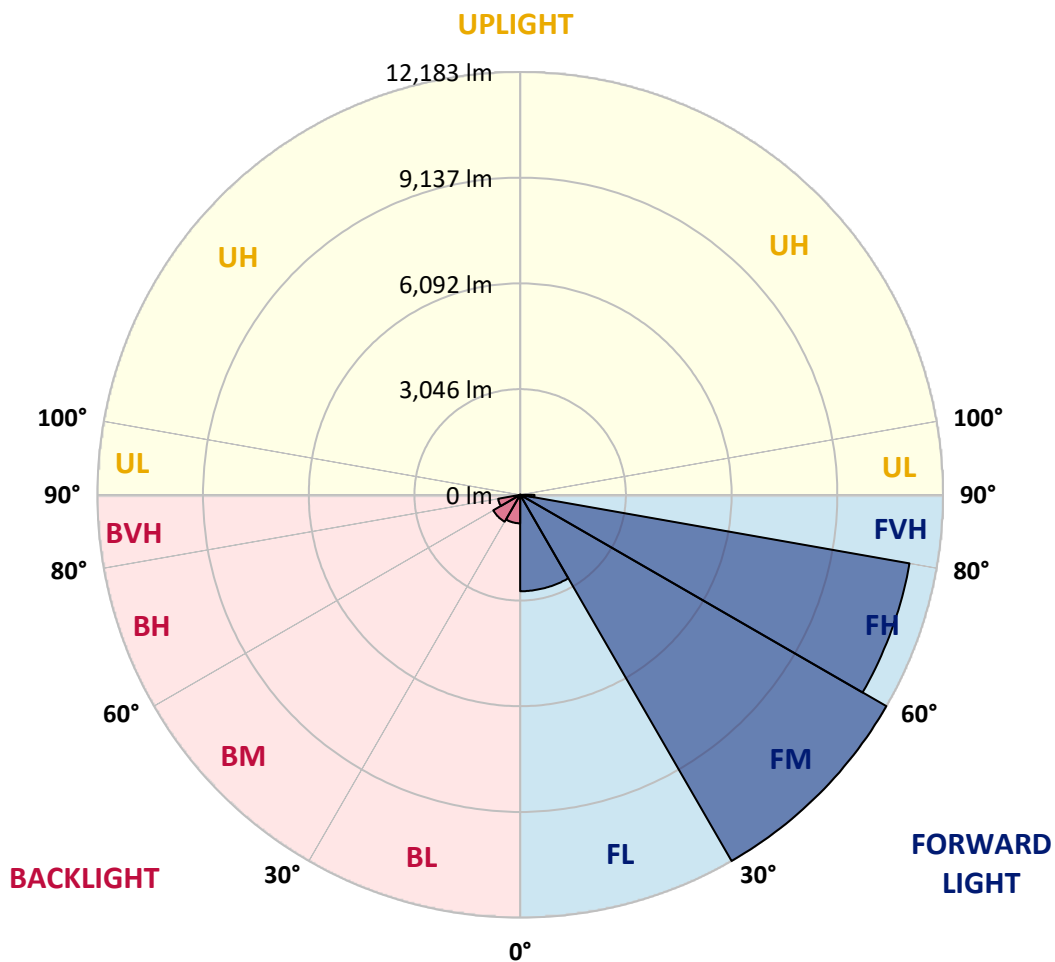
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.6	9.5			
FM (30°-60°)	12183.1	41.8			
FH (60°-80°)	11390.5	39.1			G4/12000
FVH (80°-90°)	410.5	1.4			G3/500
BL (0°-30°)	821.2	2.8	B2/1000		
BM (30°-60°)	894.0	3.1	B1/1000		
BH (60°-80°)	644.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	13.0	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°	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1
2.5°	8311.3	8308.4	8271.9	8255.5	8225.6	8163.2	8065.9	8015.1	7932.8	7789.1	7596.6
5°	8235.5	8275.4	8296.4	8298.4	8319.8	8296.4	8209.1	8166.7	8053.0	7822.0	7476.4
7.5°	7721.8	7736.2	7797.6	7850.0	7952.2	8049.5	8080.9	8062.4	7995.1	7748.2	7288.3
10°	7171.6	7186.1	7258.9	7327.7	7466.4	7616.0	7774.1	7807.6	7835.5	7642.5	7107.3
12.5°	6696.8	6711.7	6786.0	6876.3	7037.9	7222.5	7467.9	7522.3	7646.0	7542.2	6962.1
15°	6288.3	6294.7	6367.6	6479.3	6672.3	6909.2	7188.1	7275.4	7464.9	7471.4	6835.4
17.5°	5940.6	5957.1	6001.9	6108.7	6319.7	6613.0	6937.7	7062.9	7284.8	7412.0	6711.7
20°	5728.1	5744.6	5743.1	5802.4	5992.0	6304.7	6687.3	6836.9	7107.3	7351.2	6601.5
22.5°	5687.2	5687.2	5644.3	5635.8	5748.1	6009.9	6426.9	6609.5	6947.2	7324.7	6524.2
25°	5833.9	5826.9	5720.1	5632.8	5637.8	5794.0	6174.5	6392.0	6812.5	7342.7	6482.8
27.5°	6143.6	6135.1	6000.0	5833.9	5700.2	5698.7	5983.5	6217.4	6705.2	7428.5	6499.2
30°	6571.6	6568.6	6421.9	6212.4	5970.5	5748.1	5917.7	6130.1	6635.9	7583.1	6537.1
32.5°	7039.4	7034.4	6924.2	6703.7	6397.0	5970.5	5987.0	6165.1	6655.9	7789.1	6629.4
35°	7535.7	7527.2	7479.4	7286.8	6949.1	6380.5	6214.4	6352.6	6781.1	8097.4	6810.5
37.5°	8072.4	8080.9	8115.3	7930.8	7576.6	6955.6	6595.0	6688.8	7032.9	8515.8	7105.3
40°	8865.0	8863.5	8875.0	8632.6	8291.9	7658.9	7126.7	7156.6	7454.9	9071.0	7553.7
42.5°	10303.0	10202.8	9898.0	9403.7	9061.0	8463.0	7797.6	7766.2	7970.7	9757.8	8181.2
45°	12235.8	12021.3	11230.8	10283.6	9845.1	9369.3	8622.6	8522.3	8652.5	10583.3	8955.8
47.5°	13897.8	13675.3	12557.1	11199.3	10677.1	10229.2	9589.7	9408.7	9451.6	11507.6	9937.4
50°	14462.9	14354.2	13377.6	11996.9	11482.7	11311.6	10712.0	10491.1	10430.2	12576.5	11075.6
52.5°	14266.9	14258.9	13608.0	12514.2	12220.9	12431.9	12123.6	11868.2	11644.3	13703.8	12233.8
55°	13952.2	13993.6	13701.8	12967.1	12957.1	13454.9	14054.4	13841.9	13193.0	14927.8	13232.4
57.5°	13084.3	13260.3	13649.4	13824.0	14229.0	14738.3	15662.5	15787.7	15020.1	15865.0	14060.9
60°	10616.3	11003.3	12275.2	13947.2	15868.5	17136.9	17603.3	17710.1	16518.9	16644.1	15179.7
62.5°	7535.7	7930.8	9543.9	12372.5	15893.0	20288.3	20494.3	20074.3	18169.9	17799.3	17109.0
65°	3999.8	4305.1	5622.9	8930.8	13779.6	21020.0	25550.5	24298.6	21082.4	20070.8	19601.5
67.5°	2046.0	2138.3	2662.5	4370.9	9473.0	18670.7	30082.6	30963.9	26102.2	22324.9	19481.3
69°	1810.6	1865.0	2212.6	3159.8	6065.8	15814.2	30303.5	33252.4	28730.3	22136.8	17703.6
70°	1752.7	1800.6	2116.9	2860.1	4741.5	13261.8	29458.1	33051.4	29402.2	21422.1	16375.8
72.5°	1487.9	1528.8	1884.9	2527.4	3853.7	6583.0	23929.5	28007.1	26384.0	17845.2	11853.3
75°	995.1	1130.3	1809.1	2369.3	3584.8	3739.9	15776.2	20238.9	18800.9	12036.3	6174.5
77.5°	238.9	256.9	510.8	1884.9	3278.5	3291.5	8113.8	12581.5	10262.1	4290.1	1459.5
80°	128.7	123.7	143.2	374.1	3052.6	3089.0	3652.6	6107.2	3664.1	711.8	480.8
82.5°	90.8	85.8	92.3	156.6	960.7	2813.7	2642.6	2764.3	1518.8	273.3	216.0
85°	32.9	31.4	50.9	141.7	301.3	1617.6	2714.9	2280.0	1230.5	125.2	158.1
87.5°	11.5	10.0	20.0	77.3	92.3	688.8	1675.4	1723.3	484.3	75.8	74.3
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°	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1
2.5°	7515.8	7413.5	7226.0	7032.9	6854.9	6640.9	6533.7	6428.4	6384.0	6367.6	6290.2
5°	7298.3	7125.2	6726.7	6326.2	5957.1	5565.0	5306.6	5099.1	4976.9	4917.6	4823.8
7.5°	7020.0	6736.7	6131.6	5514.1	4939.0	4372.4	3952.4	3629.2	3406.7	3300.0	3202.7
10°	6749.6	6372.5	5512.6	4670.7	3889.6	3138.4	2558.3	2138.3	1870.0	1746.3	1667.5
12.5°	6507.7	6018.4	4914.6	3848.7	2868.0	1988.7	1398.6	1064.4	897.8	840.0	812.0
15°	6291.7	5692.2	4349.5	3067.6	1942.3	1136.7	764.6	650.9	624.5	624.5	621.0
17.5°	6087.2	5372.5	3803.8	2334.3	1219.0	695.3	581.6	566.6	566.6	573.1	573.1
20°	5891.2	5067.7	3276.6	1675.4	767.6	551.7	525.7	522.2	525.7	533.7	533.7
22.5°	5723.1	4790.9	2784.2	1149.7	570.1	497.3	484.3	479.3	480.8	485.8	489.3
25°	5597.9	4556.9	2319.9	779.1	490.8	452.9	438.4	430.0	423.5	423.5	426.5
27.5°	5519.1	4359.4	1870.0	566.6	441.4	412.0	388.6	375.6	360.6	352.6	355.6
30°	5461.3	4171.4	1448.0	462.9	395.5	365.6	336.2	314.7	293.3	283.3	286.8
32.5°	5439.8	4019.8	1082.4	408.5	354.1	321.2	284.8	256.9	233.9	225.5	227.4
35°	5497.7	3899.5	792.6	369.1	321.2	279.8	238.9	207.5	189.5	184.6	186.0
37.5°	5649.3	3835.2	593.1	336.2	291.8	245.4	199.5	169.6	158.1	158.1	159.6
40°	5935.6	3833.7	476.3	313.2	265.4	212.5	164.6	143.2	136.7	140.2	141.7
42.5°	6354.1	3921.0	415.0	291.8	242.4	181.1	136.7	121.7	120.2	123.7	125.2
45°	6925.7	4080.6	382.1	273.3	217.5	151.6	115.2	105.2	105.2	110.2	112.2
47.5°	7626.0	4314.5	354.1	255.4	192.5	126.7	98.8	92.3	93.8	98.8	100.3
50°	8469.5	4609.8	326.2	235.4	174.6	105.2	85.8	80.8	82.3	88.8	90.8
52.5°	9430.1	5006.9	303.3	217.5	151.6	87.3	72.3	69.3	72.3	79.3	80.8
55°	10253.6	5362.5	275.3	202.5	121.7	72.3	59.4	59.4	62.8	70.8	72.3
57.5°	11046.2	5734.6	250.4	174.6	95.8	57.9	49.4	50.9	55.9	64.3	65.8
60°	12209.4	6365.6	221.0	146.6	72.3	45.9	41.4	42.9	49.4	57.9	59.4
62.5°	14184.6	7326.2	191.0	121.7	55.9	36.4	32.9	36.4	44.4	54.4	55.9
65°	15967.3	7716.8	156.6	102.3	42.9	27.9	27.9	32.9	42.9	52.9	54.4
67.5°	14973.7	6495.7	121.7	80.8	32.9	21.4	22.9	31.4	41.4	52.9	54.4
69°	13242.4	5311.6	103.7	64.3	27.9	20.0	21.4	31.4	41.4	50.9	52.9
70°	11893.2	4484.6	92.3	54.4	24.9	20.0	21.4	29.4	41.4	50.9	52.9
72.5°	7965.7	2421.6	74.3	39.4	22.9	18.0	18.0	29.4	39.4	49.4	50.9
75°	3423.2	668.9	59.4	27.9	20.0	16.5	16.5	27.9	37.9	47.9	50.9
77.5°	626.0	169.6	47.9	24.9	20.0	16.5	15.0	26.4	36.4	45.9	47.9
80°	248.9	83.8	37.9	21.4	18.0	15.0	13.0	24.9	34.4	44.4	45.9
82.5°	150.1	47.9	31.4	20.0	18.0	13.0	11.5	21.4	32.9	42.9	44.4
85°	121.7	32.9	24.9	20.0	16.5	13.0	10.0	20.0	29.4	41.4	42.9
87.5°	59.4	22.9	22.9	18.0	16.5	13.0	10.0	18.0	27.9	39.4	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)