

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: P299618

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299618
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: GLNA-AF-08-LED-E1-SL2-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34717.8 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

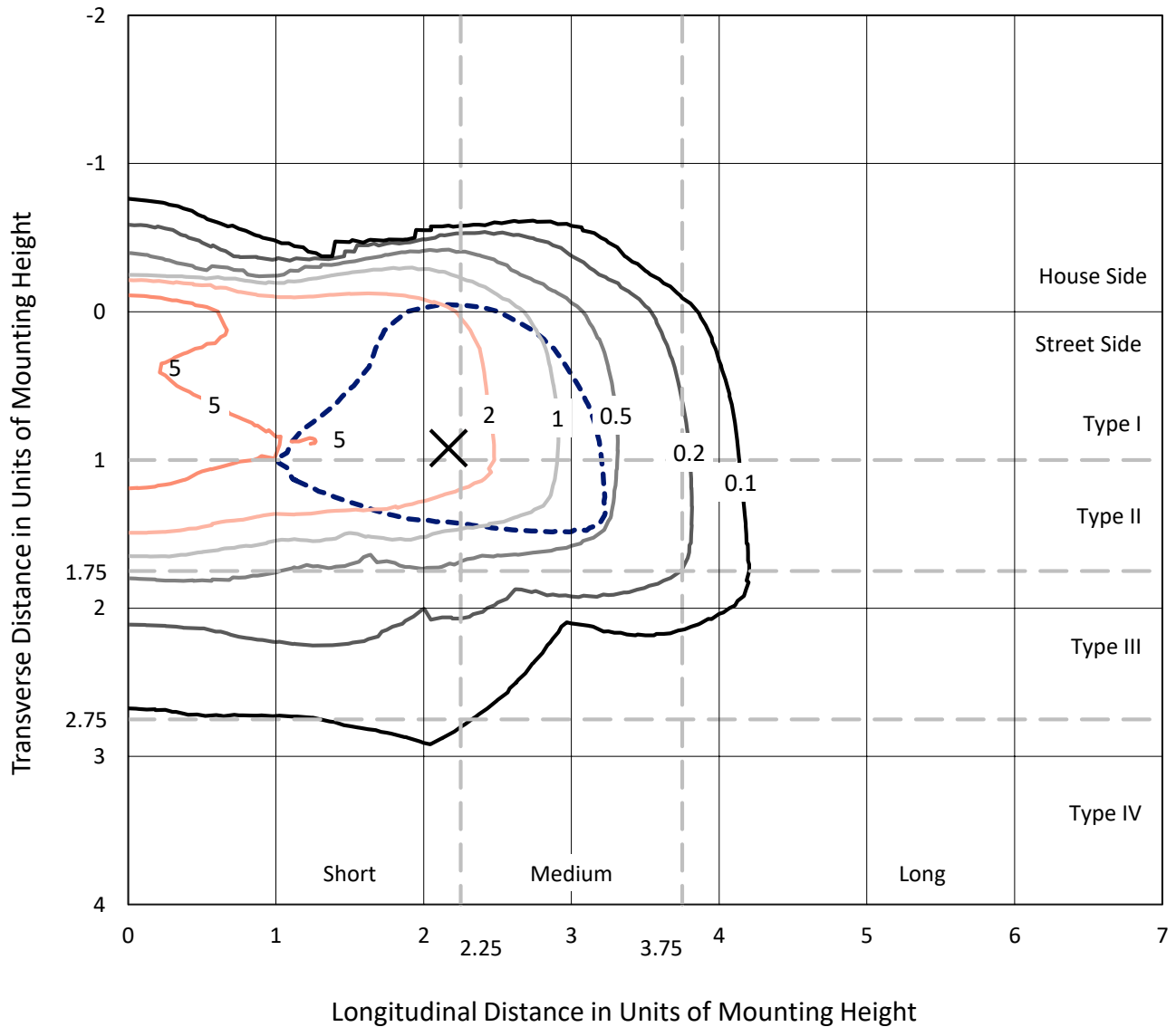
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

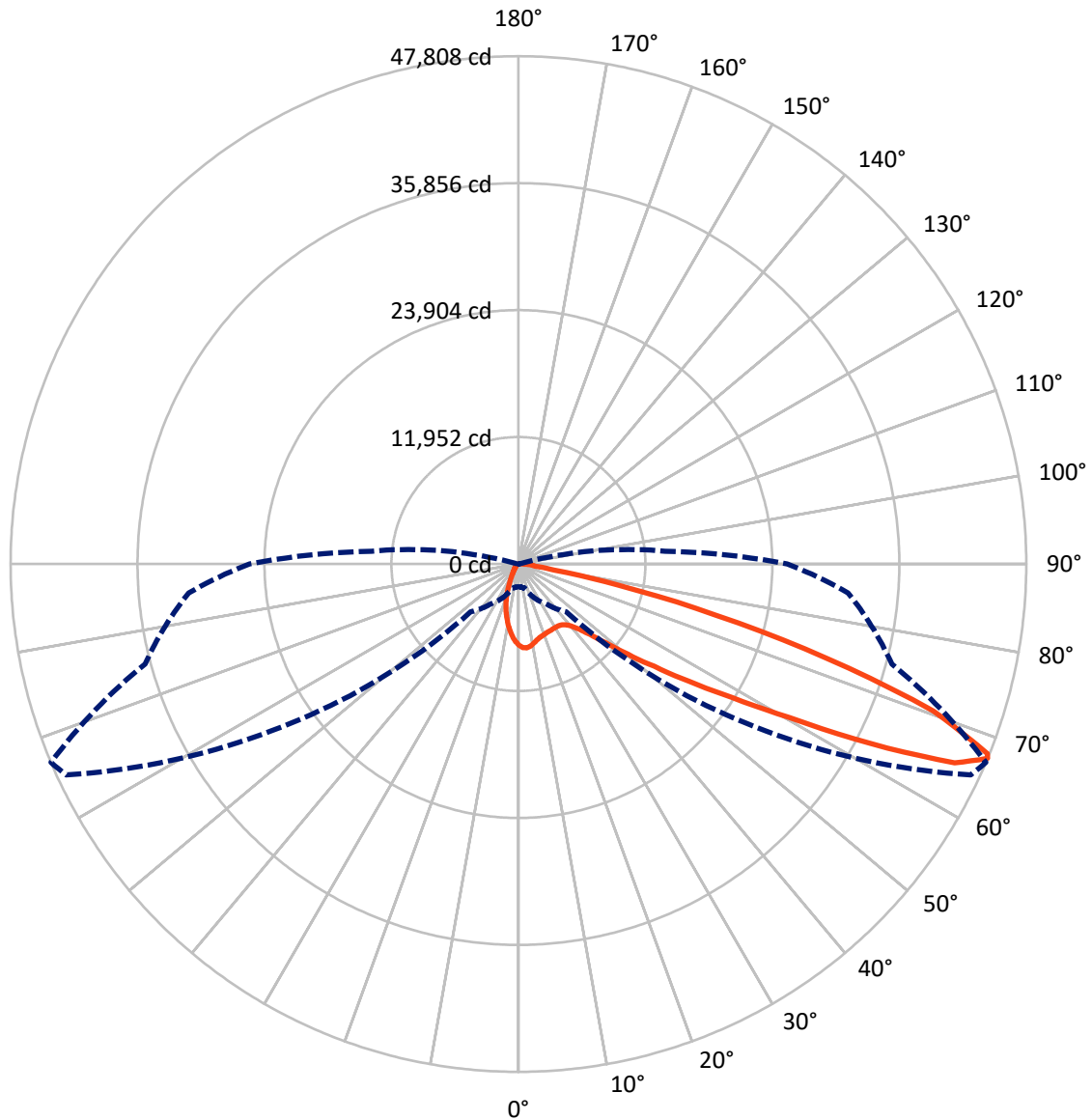
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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	3604.8	0.0	3604.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31113.0	0.0	31113.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	34717.8	0.0	34717.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.0	1.8
10°-20°	1326.0	3.8
20°-30°	1927.9	5.6
30°-40°	3007.5	8.7
40°-50°	5327.7	15.3
50°-60°	8430.6	24.3
60°-70°	9656.1	27.8
70°-80°	4005.3	11.5
80°-90°	413.7	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°	34717.8	100.0
0°-180°	34717.8	100.0



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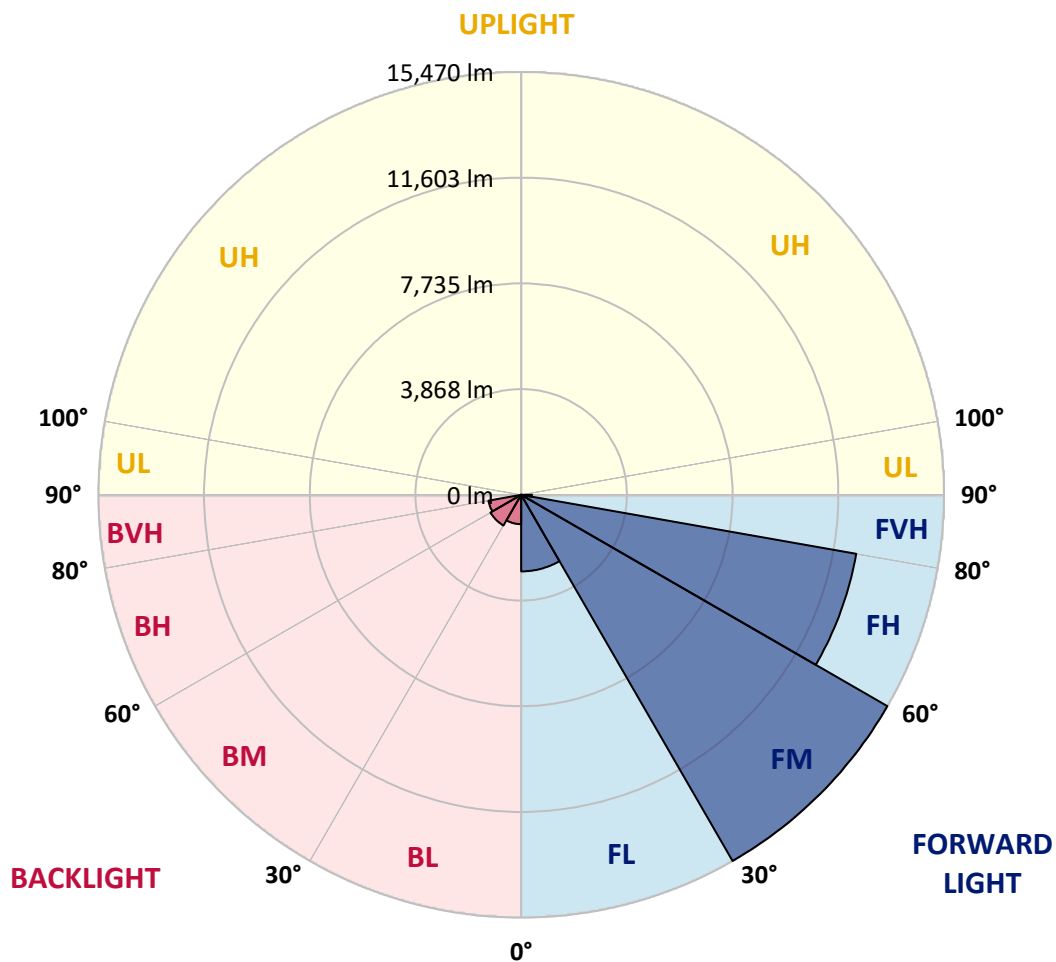
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2801.2	8.1			
FM	(30°-60°)	15470.3	44.6			
FH	(60°-80°)	12446.4	35.9			G5
FVH	(80°-90°)	395.1	1.1			G3/500
BL	(0°-30°)	1075.7	3.1	B3/2500		
BM	(30°-60°)	1295.5	3.7	B2/2500		
BH	(60°-80°)	1214.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	18.6	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6
2.5°	7915.8	7932.0	7929.9	7942.1	7970.4	7972.5	7944.1	7889.4	7877.3	7806.4	7682.9
5°	7300.2	7346.7	7375.1	7490.5	7620.1	7776.0	7893.5	7936.0	7929.9	7879.3	7693.0
7.5°	6597.5	6644.0	6676.4	6812.1	6984.2	7251.6	7557.3	7808.4	7830.7	7885.4	7684.9
10°	6129.7	6137.8	6182.3	6311.9	6492.2	6765.5	7130.1	7569.5	7636.3	7836.8	7664.7
12.5°	5744.9	5751.0	5809.7	5949.5	6141.8	6417.2	6800.0	7308.3	7411.5	7776.0	7660.6
15°	5471.6	5493.8	5546.5	5692.3	5896.8	6170.2	6563.0	7115.9	7239.4	7753.8	7697.1
17.5°	5380.4	5404.7	5420.9	5526.2	5712.5	5979.8	6382.8	6990.3	7130.1	7765.9	7767.9
20°	5475.6	5493.8	5457.4	5483.7	5599.1	5838.1	6230.9	6883.0	7049.0	7780.1	7859.1
22.5°	5830.0	5838.1	5738.9	5623.4	5603.2	5734.8	6111.5	6797.9	6976.1	7818.6	7966.4
25°	6437.5	6423.3	6261.3	6012.2	5777.3	5716.6	6040.6	6745.3	6939.7	7859.1	8077.8
27.5°	7170.6	7190.8	6968.0	6605.6	6158.0	5838.1	6030.5	6723.0	6923.5	7887.4	8175.0
30°	8061.6	8089.9	7834.8	7379.1	6737.2	6137.8	6123.6	6719.0	6913.4	7869.2	8183.1
32.5°	8970.8	9005.2	8804.7	8334.9	7510.8	6640.0	6334.2	6763.5	6933.6	7806.4	8136.5
35°	9922.5	9971.1	9837.5	9434.5	8559.7	7365.0	6704.8	6899.2	7028.8	7800.3	8089.9
37.5°	11236.8	11281.3	11030.2	10602.9	9829.4	8337.0	7300.2	7154.4	7253.6	7897.5	8102.1
40°	13199.0	13192.9	12544.9	11890.8	11224.6	9572.2	8136.5	7616.1	7666.7	8191.2	8251.9
42.5°	15337.4	15327.3	14369.5	13375.2	12773.7	11093.0	9236.1	8413.9	8379.5	8731.8	8640.7
45°	16985.8	16983.7	16202.1	15082.3	14638.8	12838.5	10657.6	9523.6	9471.0	9610.7	9357.6
47.5°	17688.4	17700.6	17307.7	16520.0	16706.3	15199.7	12449.7	11131.5	11052.5	10995.8	10611.0
50°	17141.7	17166.0	17198.4	17044.5	18223.0	18372.9	14853.4	13397.4	13359.0	13105.8	12504.4
52.5°	15355.6	15479.2	15859.9	16347.9	18749.5	21418.5	18622.0	16212.2	16005.7	15736.3	15074.2
55°	12346.5	12482.1	13205.1	14389.7	17965.9	23419.2	23903.2	19841.0	19496.8	18692.8	17737.0
57.5°	8170.9	8381.5	9430.5	10937.1	15689.8	23741.2	29172.3	24877.2	23678.4	21477.2	20399.9
60°	4501.6	4704.1	5842.1	7207.0	11331.9	22149.5	32716.0	31434.2	29316.0	24589.7	23633.9
62.5°	2772.2	2881.6	3722.0	4991.6	6795.9	17481.9	33449.1	39673.9	37221.7	28597.2	27540.1
65°	2207.3	2253.8	2664.9	4080.4	4872.2	10398.4	31081.8	45955.5	45137.4	33449.1	31037.3
67°	2142.5	2160.7	2355.1	3503.3	4592.7	6374.7	26039.6	46978.1	47808.4	36385.3	31146.6
67.5°	2156.6	2176.9	2361.2	3343.3	4584.6	5858.3	24302.1	46575.2	47624.1	36618.2	30662.7
70°	2079.7	2142.5	2703.4	3341.3	4359.8	4868.1	14553.7	40354.3	41445.8	34024.2	26017.3
72.5°	737.1	741.2	1168.4	2703.4	4740.5	4920.8	7308.3	29583.3	30391.3	26027.4	18757.6
75°	437.4	372.6	388.8	769.5	4529.9	4779.0	4216.1	18903.4	19205.2	14914.2	9499.3
77.5°	301.7	263.3	271.4	340.2	1725.3	4712.2	3349.4	9857.7	9535.8	5230.6	2023.0
80°	172.1	151.9	162.0	297.7	627.8	4396.3	3159.0	3997.4	3408.1	887.0	558.9
82.5°	91.1	77.0	93.2	245.0	437.4	2739.8	3165.1	1931.9	1530.9	299.7	380.7
85°	32.4	26.3	44.6	168.1	291.6	840.4	2934.2	1624.1	1275.8	145.8	289.6
87.5°	6.1	6.1	18.2	68.9	117.5	257.2	1735.4	963.9	646.0	87.1	198.5
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°	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6
2.5°	7632.3	7545.2	7427.7	7284.0	7113.8	6964.0	6852.6	6737.2	6712.9	6672.4	6666.3
5°	7581.6	7431.8	7140.2	6806.0	6449.6	6127.7	5866.4	5633.6	5530.3	5441.2	5431.1
7.5°	7506.7	7281.9	6785.8	6247.1	5690.3	5184.0	4754.7	4451.0	4171.5	4037.9	4017.6
10°	7419.6	7097.6	6386.9	5639.6	4870.1	4155.3	3517.4	2982.8	2658.8	2466.5	2442.2
12.5°	7338.6	6917.4	5979.8	5009.9	3987.2	3031.4	2211.3	1701.0	1360.8	1223.1	1206.9
15°	7300.2	6771.6	5599.1	4365.9	3063.8	1929.8	1208.9	935.6	824.2	791.8	789.8
17.5°	7296.1	6648.1	5226.5	3699.7	2146.5	1121.9	787.7	718.9	696.6	688.5	688.5
20°	7294.1	6530.6	4853.9	3009.2	1362.8	747.2	656.1	639.9	623.7	613.6	613.6
22.5°	7316.4	6425.3	4465.1	2304.5	858.6	605.5	577.1	560.9	540.7	526.5	524.5
25°	7338.6	6344.3	4068.2	1640.3	621.7	526.5	498.2	475.9	447.5	429.3	427.3
27.5°	7342.7	6243.1	3643.0	1097.6	520.4	459.7	423.2	388.8	356.4	338.2	336.2
30°	7281.9	6073.0	3171.2	741.2	459.7	398.9	350.3	313.9	283.5	269.3	269.3
32.5°	7162.5	5862.4	2652.8	558.9	409.1	342.2	289.6	255.2	234.9	228.8	226.8
35°	7055.1	5635.6	2120.2	473.9	366.5	289.6	236.9	214.7	202.5	200.5	198.5
37.5°	6992.3	5453.3	1620.0	429.3	326.0	243.0	200.5	184.3	178.2	174.2	176.2
40°	7040.9	5301.5	1196.8	392.9	285.5	202.5	170.1	162.0	155.9	153.9	153.9
42.5°	7253.6	5275.1	889.0	360.5	247.1	168.1	147.8	141.8	137.7	135.7	137.7
45°	7812.5	5437.1	690.5	330.1	208.6	141.8	125.6	123.5	121.5	121.5	121.5
47.5°	8652.9	5771.3	575.1	295.7	174.2	121.5	109.4	107.3	105.3	107.3	107.3
50°	10076.4	6382.8	514.4	261.2	143.8	103.3	93.2	93.2	93.2	93.2	95.2
52.5°	12241.2	7585.7	473.9	226.8	117.5	87.1	79.0	79.0	81.0	81.0	83.0
55°	14653.0	9181.4	437.4	192.4	99.2	72.9	64.8	66.8	68.9	70.9	70.9
57.5°	17269.3	10949.2	407.0	158.0	85.1	58.7	54.7	56.7	58.7	62.8	62.8
60°	20426.2	12862.8	362.5	123.5	70.9	46.6	42.5	46.6	52.7	56.7	58.7
62.5°	23893.1	14713.7	305.8	97.2	58.7	36.5	34.4	42.5	50.6	54.7	56.7
65°	26262.3	15294.9	234.9	79.0	44.6	26.3	28.4	38.5	48.6	54.7	54.7
67°	25302.5	13867.2	192.4	66.8	36.5	20.3	26.3	38.5	48.6	52.7	54.7
67.5°	24636.2	13308.3	184.3	64.8	34.4	20.3	26.3	38.5	48.6	54.7	54.7
70°	20045.5	9997.5	153.9	48.6	28.4	18.2	22.3	36.5	46.6	52.7	52.7
72.5°	13928.0	6164.1	137.7	34.4	24.3	16.2	20.3	34.4	44.6	50.6	52.7
75°	6621.8	2231.6	117.5	26.3	22.3	14.2	18.2	34.4	44.6	50.6	50.6
77.5°	1350.7	518.4	95.2	22.3	18.2	14.2	16.2	32.4	42.5	48.6	48.6
80°	443.5	200.5	70.9	20.3	18.2	14.2	16.2	30.4	42.5	46.6	48.6
82.5°	320.0	101.3	46.6	20.3	18.2	14.2	14.2	30.4	40.5	46.6	46.6
85°	245.0	70.9	30.4	20.3	18.2	14.2	14.2	28.4	38.5	44.6	44.6
87.5°	162.0	28.4	24.3	20.3	18.2	14.2	14.2	28.4	36.5	42.5	44.6
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)