

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: P300757

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-07-LED-E1-AFL-7030-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19952.1 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 226  
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

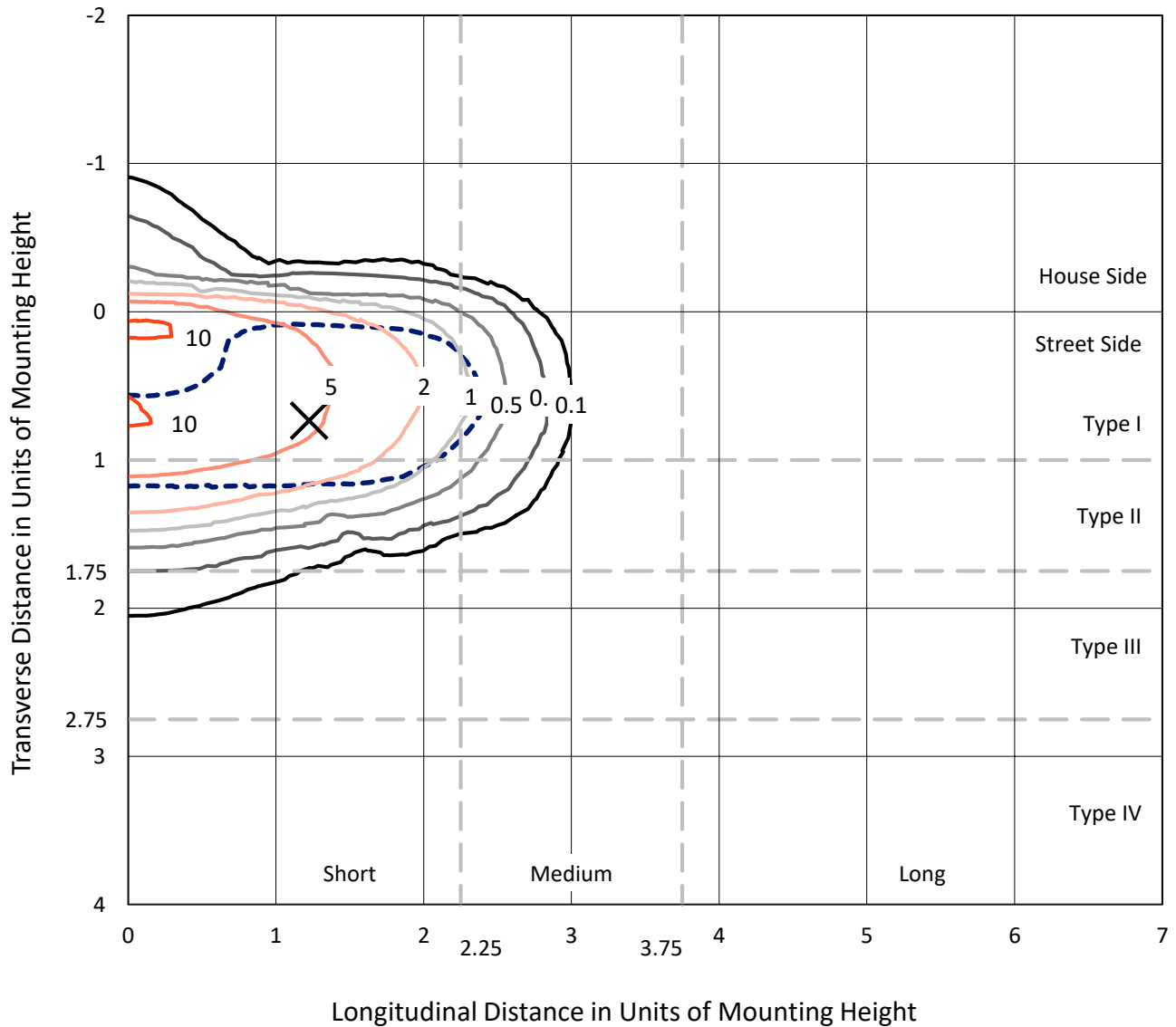


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

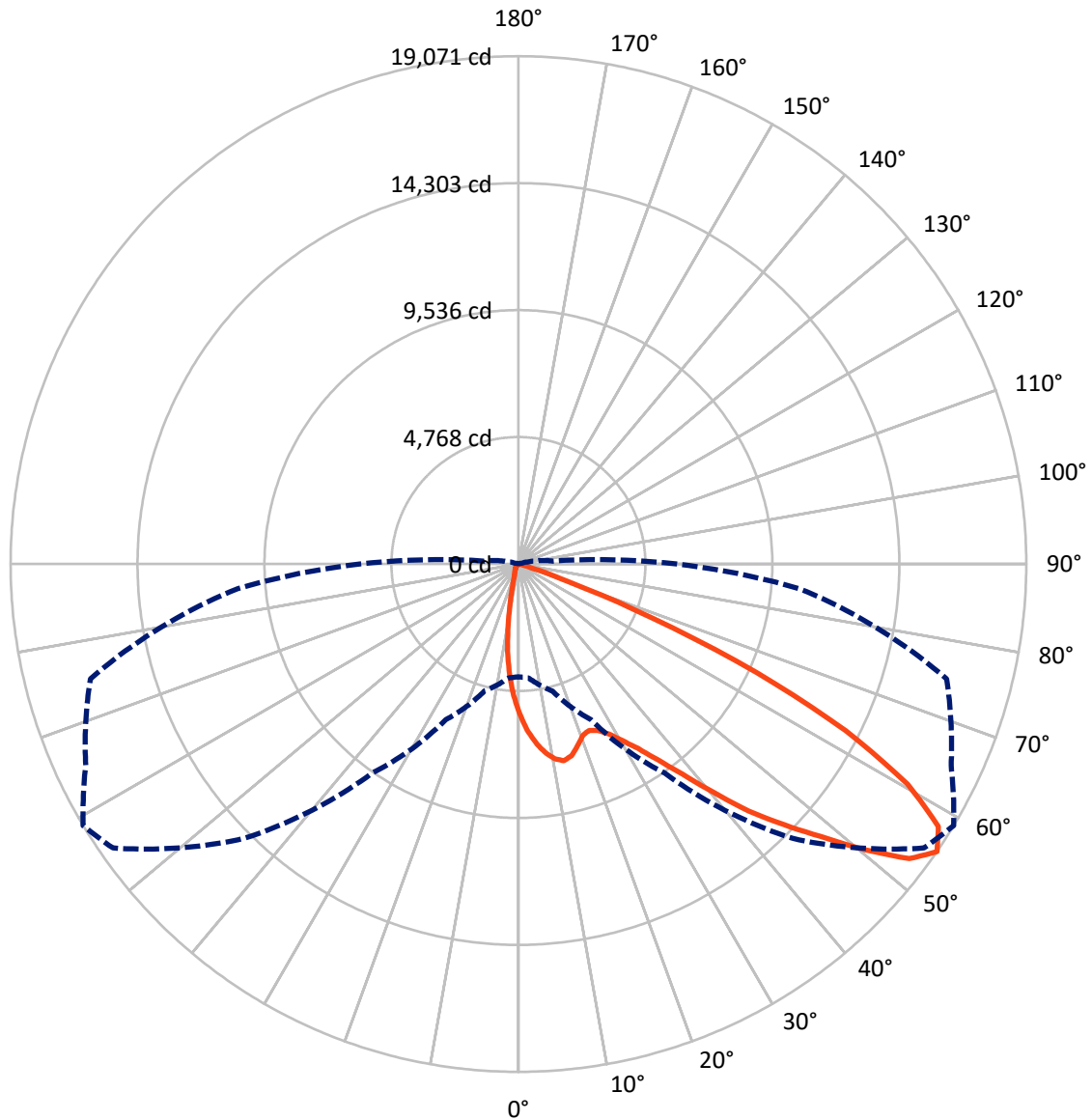


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1114.4	0.0	1114.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	18837.6	0.0	18837.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	19952.1	0.0	19952.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.4	2.4
10°-20°	1126.4	5.6
20°-30°	1916.6	9.6
30°-40°	3296.2	16.5
40°-50°	5088.9	25.5
50°-60°	5116.0	25.6
60°-70°	2623.5	13.1
70°-80°	284.3	1.4
80°-90°	29.7	0.1
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°	19952.1	100.0
0°-180°	19952.1	100.0



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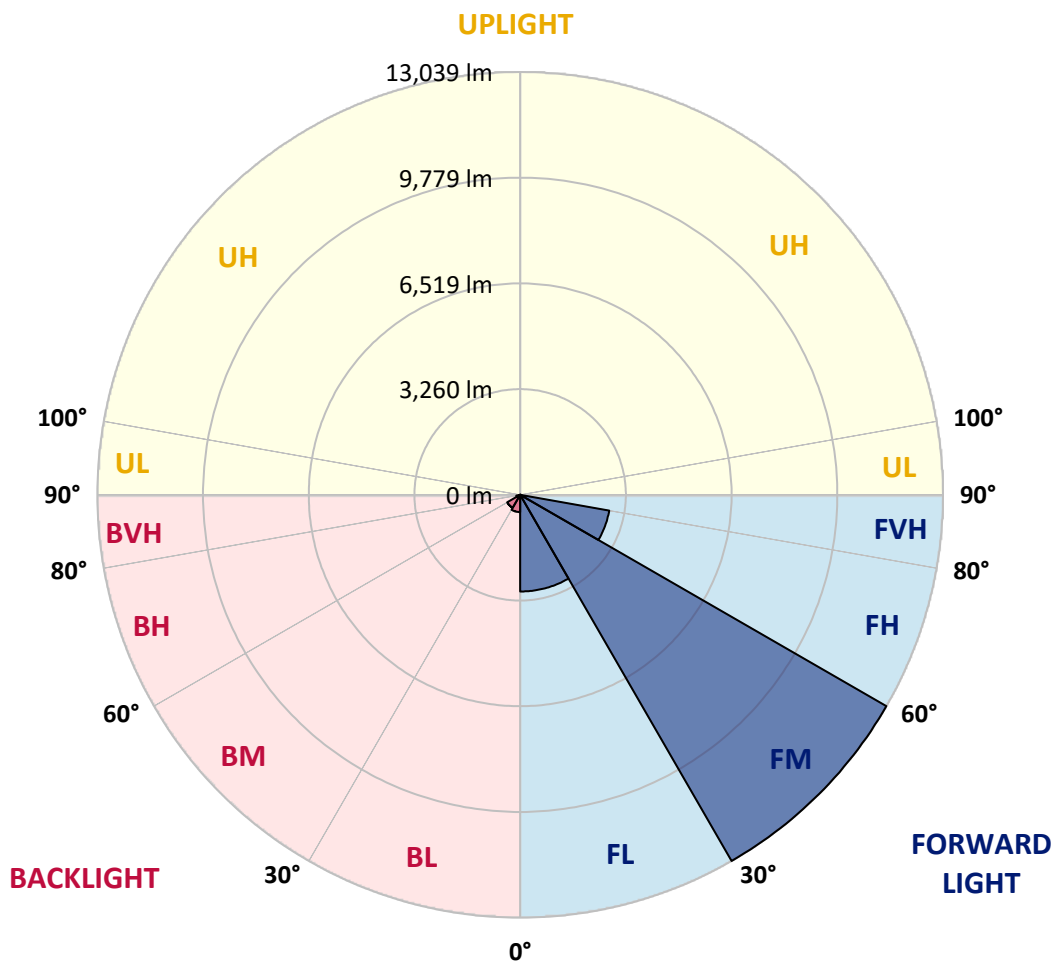
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.5	14.9			
FM (30°-60°)	13038.6	65.3			
FH (60°-80°)	2788.4	14.0			G2/5000
FVH (80°-90°)	29.1	0.1			G1/100
BL (0°-30°)	531.9	2.7	B2/1000		
BM (30°-60°)	462.5	2.3	B1/1000		
BH (60°-80°)	119.4	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4
2.5°	6645.5	6574.9	6553.7	6539.6	6474.8	6393.6	6282.9	6231.1	6125.1	5954.4	5744.8
5°	7254.3	7241.3	7194.2	7168.3	7098.8	6983.5	6806.8	6722.1	6553.7	6266.4	5890.8
7.5°	6988.2	7069.4	7134.2	7242.5	7379.1	7374.4	7226.0	7137.7	6949.3	6570.2	6053.3
10°	5960.3	6026.2	6132.2	6378.2	6879.8	7322.6	7496.8	7433.2	7282.5	6849.2	6209.9
12.5°	5758.9	5751.8	5770.7	5842.5	6105.1	6736.2	7450.9	7579.2	7548.6	7104.7	6358.2
15°	5866.1	5857.8	5855.5	5880.2	5943.8	6209.9	7105.9	7474.5	7711.1	7341.4	6484.2
17.5°	6166.3	6131.0	6112.1	6092.1	6073.3	6139.2	6691.4	7181.3	7735.8	7548.6	6589.0
20°	6680.9	6622.0	6552.5	6439.5	6333.5	6300.5	6517.2	6879.8	7647.5	7706.4	6657.3
22.5°	7327.3	7251.9	7131.8	6925.8	6710.3	6585.5	6603.1	6784.5	7515.7	7878.3	6689.1
25°	8053.8	7957.2	7797.1	7511.0	7194.2	6972.9	6857.5	6921.1	7455.6	8079.7	6725.6
27.5°	8832.1	8724.9	8515.3	8125.6	7766.5	7467.4	7231.9	7223.7	7558.1	8343.4	6784.5
30°	9603.3	9586.8	9313.6	8901.5	8425.8	8062.0	7722.9	7679.3	7844.2	8708.4	6901.0
32.5°	10632.4	10508.7	10174.3	9750.5	9201.8	8764.9	8363.4	8262.2	8283.4	9133.5	7081.2
35°	11929.9	11794.5	11323.5	10738.3	10124.9	9609.2	9165.3	9027.5	8975.7	9829.4	7385.0
37.5°	12768.3	12765.9	12470.4	11874.6	11216.4	10647.7	10164.9	10003.6	9898.8	10670.1	7855.9
40°	12790.6	12846.0	12884.8	12879.0	12410.3	11886.4	11457.8	11258.8	11015.0	11793.3	8464.7
42.5°	12104.2	12246.7	12589.3	13171.0	13448.8	13240.4	12879.0	12683.5	12320.8	12995.5	9206.5
45°	11176.4	11275.3	11874.6	12946.1	14011.7	14582.7	14307.2	13957.5	13479.4	14249.5	9871.7
47.5°	10760.7	10778.4	11165.8	12342.0	14054.0	15682.5	15849.7	15280.9	14532.1	15259.8	10392.2
50°	9518.5	9550.3	10084.9	11295.3	13557.2	16201.7	17399.2	16859.9	15680.1	16038.0	10581.7
52.5°	7174.2	7218.9	7897.2	9575.0	12191.3	15980.4	18508.3	18377.6	16937.6	16418.4	10592.3
55°	4232.9	4291.8	4939.4	6445.4	9589.2	14572.1	18590.8	19071.2	17930.2	16643.3	10575.9
57.5°	1976.9	2018.1	2389.0	3320.4	5963.8	11516.6	17349.7	18595.5	18477.7	16762.2	10692.4
60°	1050.3	1062.1	1151.5	1437.7	2695.2	7302.5	14927.7	16791.6	17978.5	16927.0	10834.9
62.5°	803.0	806.6	801.8	836.0	1132.7	3241.5	11283.5	13804.4	15968.6	16803.4	10677.1
65°	695.9	701.8	668.8	660.5	726.5	1156.3	6703.2	9840.0	12548.1	15134.9	9602.1
67.5°	624.0	626.4	586.4	552.2	564.0	625.2	2644.6	5386.8	8305.7	11093.9	6959.9
70°	574.6	572.2	528.7	474.5	459.2	427.4	840.7	1974.6	3969.2	5625.9	3236.8
72.5°	508.7	509.8	488.6	418.0	381.5	299.1	389.7	575.8	1184.5	1533.0	758.3
75°	451.0	445.1	419.2	374.4	314.4	196.6	193.1	256.7	365.0	362.7	163.7
77.5°	326.2	320.3	328.5	307.3	241.4	127.2	96.6	123.6	148.4	143.6	45.9
80°	239.0	235.5	211.9	255.5	213.1	87.1	60.0	65.9	76.5	64.8	14.1
82.5°	163.7	162.5	149.5	141.3	121.3	53.0	37.7	41.2	49.5	36.5	7.1
85°	25.9	29.4	108.3	86.0	71.8	23.5	25.9	28.3	33.0	20.0	2.4
87.5°	0.0	0.0	50.6	44.7	14.1	9.4	15.3	16.5	16.5	10.6	0.0
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°	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4	5616.4
2.5°	5637.6	5519.9	5302.1	5077.2	4868.8	4620.3	4449.6	4321.2	4172.9	4132.9	4220.0
5°	5676.5	5453.9	4985.3	4475.5	3996.3	3465.2	3059.0	2737.6	2446.7	2347.8	2437.3
7.5°	5737.7	5406.9	4642.7	3803.2	2969.5	2140.6	1573.1	1199.8	962.0	891.3	929.0
10°	5798.9	5338.6	4245.9	3007.2	1867.4	1042.0	678.2	541.6	491.0	480.4	486.3
12.5°	5849.6	5246.7	3762.0	2138.2	998.5	558.1	443.9	421.5	414.5	414.5	416.8
15°	5880.2	5107.8	3188.5	1360.0	574.6	421.5	387.4	380.3	380.3	381.5	383.8
17.5°	5876.7	4931.2	2561.0	823.0	429.8	373.3	353.2	347.3	346.2	348.5	349.7
20°	5833.1	4700.4	1931.0	542.8	374.4	340.3	320.3	309.7	308.5	310.8	313.2
22.5°	5750.7	4415.4	1381.1	418.0	337.9	308.5	283.8	274.3	274.3	276.7	279.1
25°	5650.6	4066.9	944.3	354.4	305.0	274.3	250.8	242.6	244.9	250.8	252.0
27.5°	5525.8	3674.8	641.7	303.8	264.9	240.2	222.5	216.7	222.5	230.8	233.1
30°	5418.6	3266.2	458.0	262.6	224.9	207.2	196.6	196.6	204.9	220.2	223.7
32.5°	5336.2	2870.6	353.2	232.0	195.5	180.1	174.3	180.1	193.1	208.4	211.9
35°	5325.6	2544.5	299.1	207.2	174.3	159.0	156.6	167.2	180.1	191.9	194.3
37.5°	5406.9	2243.0	269.6	187.2	155.4	141.3	138.9	151.9	164.8	179.0	182.5
40°	5561.1	2006.4	248.4	168.4	140.1	124.8	120.1	129.5	147.2	166.0	170.7
42.5°	5761.3	1810.9	224.9	149.5	124.8	103.6	97.7	108.3	127.2	147.2	153.1
45°	5952.0	1642.5	199.0	128.3	104.8	80.1	77.7	91.8	101.3	121.3	126.0
47.5°	6056.8	1494.2	176.6	104.8	81.2	64.8	64.8	68.3	77.7	101.3	106.0
50°	6021.5	1375.3	153.1	77.7	56.5	49.5	49.5	48.3	62.4	81.2	84.8
52.5°	5950.8	1307.0	131.9	60.0	38.9	35.3	31.8	35.3	43.6	51.8	53.0
55°	5940.2	1295.2	110.7	48.3	27.1	23.5	17.7	17.7	17.7	16.5	14.1
57.5°	6022.7	1314.0	93.0	38.9	20.0	15.3	9.4	0.0	0.0	0.0	0.0
60°	6107.4	1334.1	80.1	27.1	14.1	8.2	1.2	0.0	0.0	0.0	0.0
62.5°	5966.1	1289.3	67.1	16.5	10.6	3.5	0.0	0.0	0.0	0.0	0.0
65°	5240.8	1097.4	53.0	11.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3727.8	734.7	35.3	7.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1701.4	307.3	22.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	363.8	95.4	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	74.2	69.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.5	109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.1	78.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)