

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: P300693

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300693
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-06-LED-E1-AFL-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21390 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

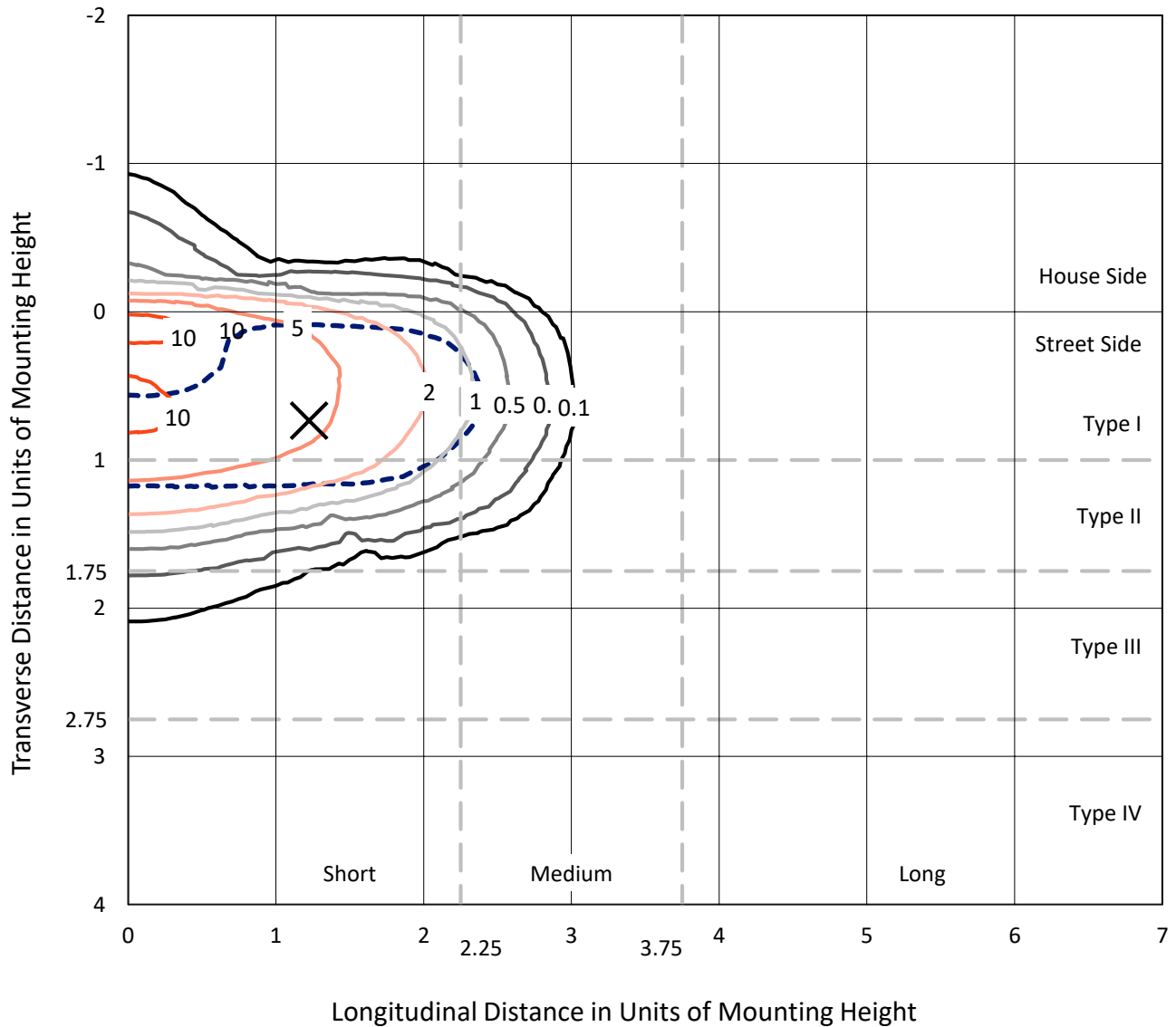
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

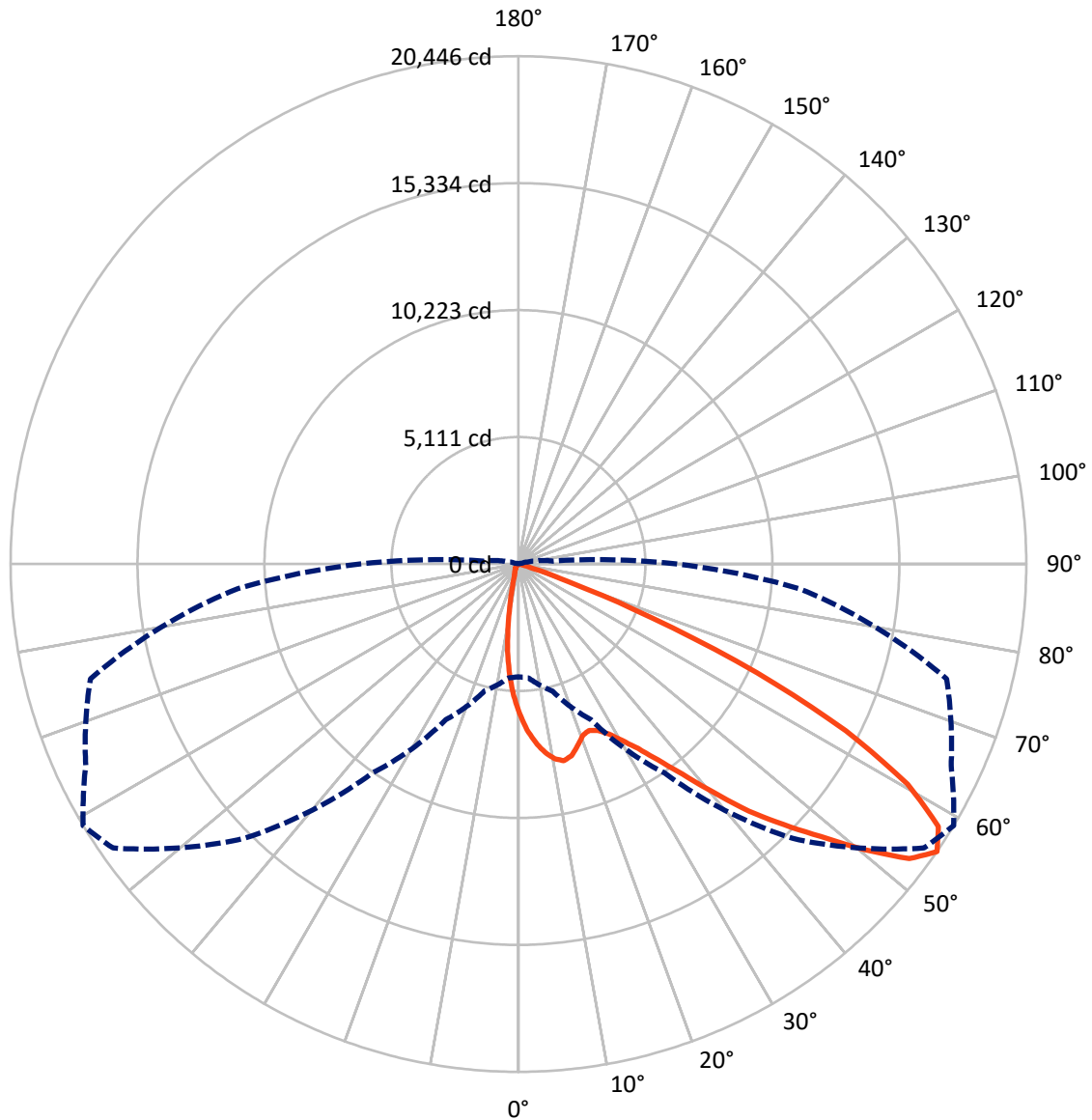


Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	1194.7	0.0	1194.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	20195.2	0.0	20195.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	21390.0	0.0	21390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	2.4
10°-20°	1207.5	5.6
20°-30°	2054.8	9.6
30°-40°	3533.7	16.5
40°-50°	5455.7	25.5
50°-60°	5484.7	25.6
60°-70°	2812.6	13.1
70°-80°	304.8	1.4
80°-90°	31.9	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°	21390.0	100.0
0°-180°	21390.0	100.0



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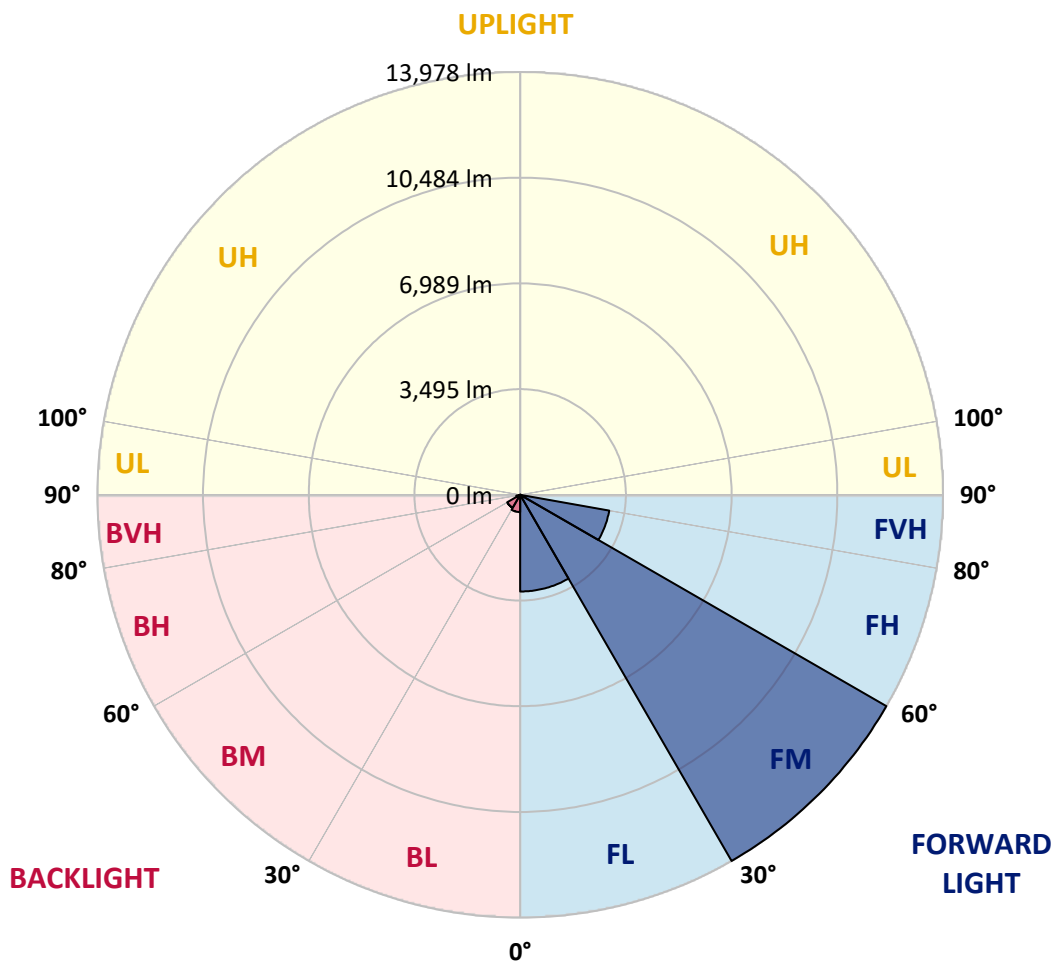
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3196.4	14.9			
FM	(30°-60°)	13978.3	65.3			
FH	(60°-80°)	2989.4	14.0			G2/5000
FVH	(80°-90°)	31.2	0.1			G1/100
BL	(0°-30°)	570.3	2.7	B2/1000		
BM	(30°-60°)	495.8	2.3	B1/1000		
BH	(60°-80°)	128.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2
2.5°	7124.5	7048.7	7026.0	7010.9	6941.4	6854.3	6735.7	6680.1	6566.5	6383.5	6158.8
5°	7777.1	7763.2	7712.7	7684.9	7610.5	7486.7	7297.4	7206.5	7026.0	6718.0	6315.3
7.5°	7491.8	7578.9	7648.3	7764.5	7910.9	7905.8	7746.8	7652.1	7450.1	7043.7	6489.5
10°	6389.8	6460.5	6574.1	6837.9	7375.7	7850.3	8037.1	7968.9	7807.4	7342.8	6657.4
12.5°	6173.9	6166.4	6186.6	6263.6	6545.1	7221.7	7987.9	8125.5	8092.7	7616.8	6816.5
15°	6288.8	6280.0	6277.5	6304.0	6372.1	6657.4	7618.0	8013.1	8266.9	7870.5	6951.5
17.5°	6610.7	6572.8	6552.6	6531.2	6511.0	6581.7	7173.7	7698.8	8293.4	8092.7	7063.9
20°	7162.3	7099.2	7024.7	6903.6	6790.0	6754.6	6986.9	7375.7	8198.7	8261.8	7137.1
22.5°	7855.3	7774.6	7645.8	7424.9	7193.9	7060.1	7079.0	7273.4	8057.3	8446.1	7171.2
25°	8634.2	8530.7	8359.0	8052.3	7712.7	7475.4	7351.7	7419.8	7992.9	8662.0	7210.3
27.5°	9468.6	9353.7	9129.0	8711.2	8326.2	8005.6	7753.1	7744.3	8102.8	8944.7	7273.4
30°	10295.4	10277.7	9984.9	9543.0	9033.1	8643.0	8279.5	8232.8	8409.5	9336.0	7398.4
32.5°	11398.6	11266.1	10907.6	10453.2	9864.9	9396.6	8966.2	8857.6	8880.3	9791.7	7591.5
35°	12789.7	12644.5	12139.6	11512.2	10854.6	10301.7	9825.8	9678.1	9622.6	10537.7	7917.2
37.5°	13688.5	13685.9	13369.1	12730.4	12024.7	11415.0	10897.5	10724.6	10612.2	11439.0	8422.1
40°	13712.4	13771.8	13813.4	13807.1	13304.7	12743.0	12283.5	12070.2	11808.9	12643.3	9074.7
42.5°	12976.5	13129.3	13496.6	14120.2	14418.1	14194.6	13807.1	13597.6	13208.8	13932.1	9870.0
45°	11981.8	12087.9	12730.4	13879.1	15021.5	15633.7	15338.3	14963.4	14450.9	15276.4	10583.2
47.5°	11536.2	11555.2	11970.5	13231.5	15066.9	16812.7	16991.9	16382.2	15579.4	16359.5	11141.1
50°	10204.5	10238.6	10811.7	12109.3	14534.2	17369.3	18653.1	18075.0	16810.1	17193.9	11344.4
52.5°	7691.2	7739.2	8466.3	10265.1	13069.9	17132.0	19842.2	19702.1	18158.3	17601.6	11355.7
55°	4538.0	4601.1	5295.4	6909.9	10280.2	15622.3	19930.6	20445.6	19222.4	17842.7	11338.0
57.5°	2119.4	2163.6	2561.2	3559.7	6393.6	12346.6	18600.1	19935.6	19809.4	17970.2	11463.0
60°	1126.0	1138.6	1234.5	1541.3	2889.4	7828.8	16003.5	18001.8	19274.2	18146.9	11615.8
62.5°	860.9	864.7	859.6	896.2	1214.3	3475.1	12096.7	14799.3	17119.4	18014.4	11446.6
65°	746.0	752.3	717.0	708.2	778.8	1239.6	7186.3	10549.1	13452.4	16225.7	10294.1
67.5°	669.0	671.5	628.6	592.0	604.6	670.3	2835.1	5775.1	8904.3	11893.5	7461.5
70°	616.0	613.5	566.8	508.7	492.3	458.2	901.3	2116.9	4255.2	6031.3	3470.1
72.5°	545.3	546.6	523.9	448.1	409.0	320.6	417.8	617.3	1269.9	1643.5	812.9
75°	483.5	477.2	449.4	401.4	337.0	210.8	207.0	275.2	391.3	388.8	175.5
77.5°	349.7	343.3	352.2	329.5	258.8	136.3	103.5	132.5	159.1	154.0	49.2
80°	256.2	252.5	227.2	273.9	228.5	93.4	64.4	70.7	82.0	69.4	15.1
82.5°	175.5	174.2	160.3	151.5	130.0	56.8	40.4	44.2	53.0	39.1	7.6
85°	27.8	31.6	116.1	92.1	77.0	25.2	27.8	30.3	35.3	21.5	2.5
87.5°	0.0	0.0	54.3	48.0	15.1	10.1	16.4	17.7	17.7	11.4	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°	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2	6021.2
2.5°	6043.9	5917.7	5684.2	5443.1	5219.6	4953.3	4770.3	4632.7	4473.6	4430.7	4524.1
5°	6085.6	5847.0	5344.6	4798.0	4284.3	3715.0	3279.5	2934.9	2623.1	2517.0	2613.0
7.5°	6151.2	5796.5	4977.3	4077.3	3183.5	2294.9	1686.4	1286.3	1031.3	955.6	996.0
10°	6216.9	5723.3	4551.9	3223.9	2002.0	1117.1	727.1	580.7	526.4	515.0	521.3
12.5°	6271.1	5624.8	4033.1	2292.3	1070.4	598.3	475.9	451.9	444.3	444.3	446.9
15°	6304.0	5475.9	3418.3	1458.0	616.0	451.9	415.3	407.7	407.7	409.0	411.5
17.5°	6300.2	5286.5	2745.5	882.4	460.7	400.2	378.7	372.4	371.1	373.6	374.9
20°	6253.5	5039.1	2070.2	581.9	401.4	364.8	343.3	332.0	330.7	333.2	335.8
22.5°	6165.1	4733.7	1480.7	448.1	362.3	330.7	304.2	294.1	294.1	296.6	299.2
25°	6057.8	4360.0	1012.4	380.0	326.9	294.1	268.9	260.0	262.6	268.9	270.1
27.5°	5924.0	3939.7	688.0	325.7	284.0	257.5	238.6	232.3	238.6	247.4	249.9
30°	5809.1	3501.6	491.0	281.5	241.1	222.2	210.8	210.8	219.6	236.1	239.8
32.5°	5720.8	3077.5	378.7	248.7	209.5	193.1	186.8	193.1	207.0	223.4	227.2
35°	5709.4	2727.8	320.6	222.2	186.8	170.4	167.9	179.2	193.1	205.8	208.3
37.5°	5796.5	2404.7	289.1	200.7	166.6	151.5	149.0	162.8	176.7	191.9	195.7
40°	5961.9	2151.0	266.3	180.5	150.2	133.8	128.8	138.9	157.8	178.0	183.0
42.5°	6176.5	1941.4	241.1	160.3	133.8	111.1	104.8	116.1	136.3	157.8	164.1
45°	6381.0	1760.9	213.3	137.6	112.3	85.8	83.3	98.5	108.6	130.0	135.1
47.5°	6493.3	1601.9	189.3	112.3	87.1	69.4	69.4	73.2	83.3	108.6	113.6
50°	6455.4	1474.4	164.1	83.3	60.6	53.0	53.0	51.8	66.9	87.1	90.9
52.5°	6379.7	1401.2	141.4	64.4	41.7	37.9	34.1	37.9	46.7	55.5	56.8
55°	6368.3	1388.5	118.7	51.8	29.0	25.2	18.9	18.9	18.9	17.7	15.1
57.5°	6456.7	1408.7	99.7	41.7	21.5	16.4	10.1	0.0	0.0	0.0	0.0
60°	6547.6	1430.2	85.8	29.0	15.1	8.8	1.3	0.0	0.0	0.0	0.0
62.5°	6396.1	1382.2	72.0	17.7	11.4	3.8	0.0	0.0	0.0	0.0	0.0
65°	5618.5	1176.5	56.8	12.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3996.5	787.7	37.9	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1824.0	329.5	24.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	390.1	102.2	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	79.5	74.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.2	117.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.1	84.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	12.6	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)