

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: P300756

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300756
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-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K 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: 17921.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - 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

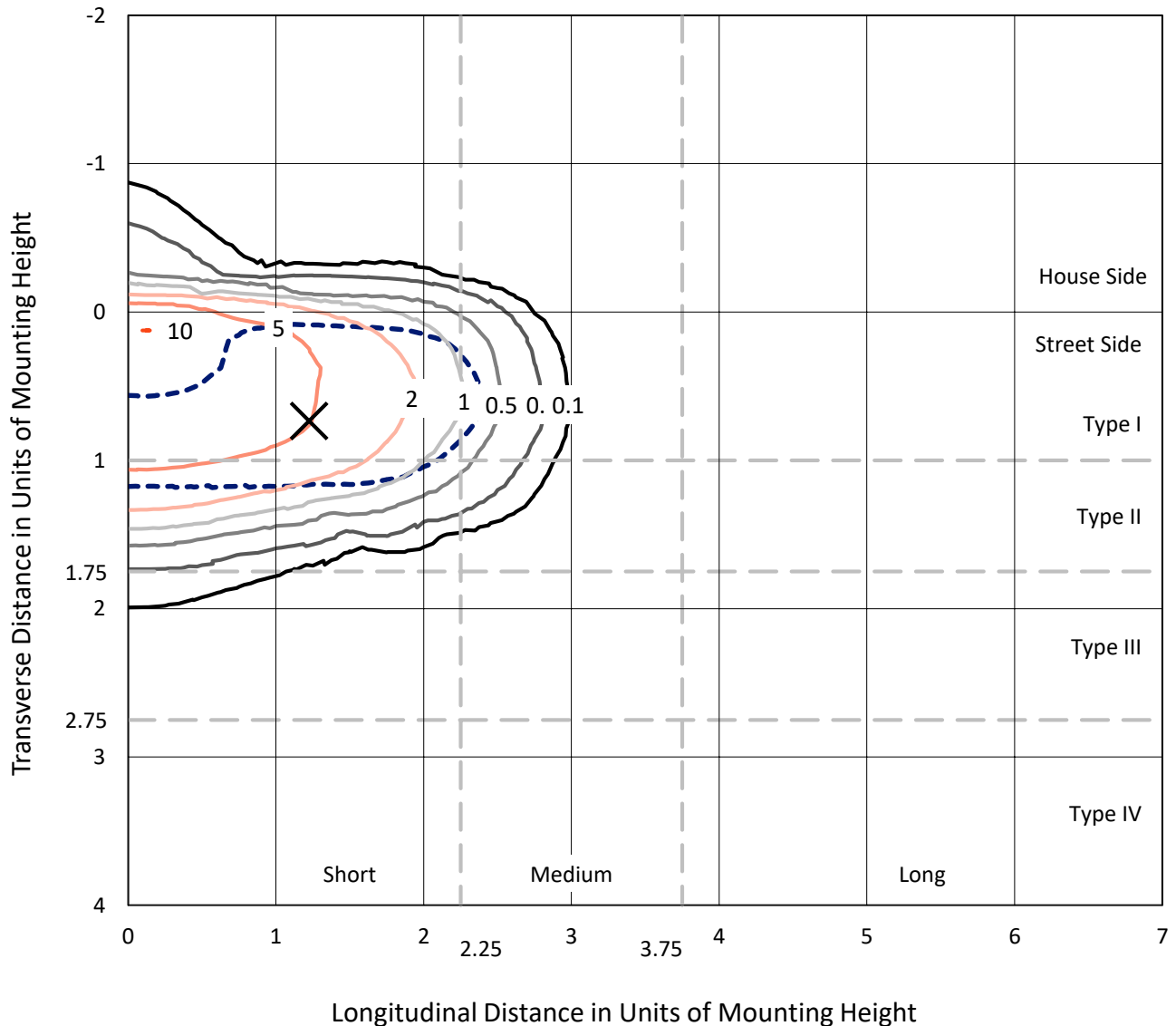


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

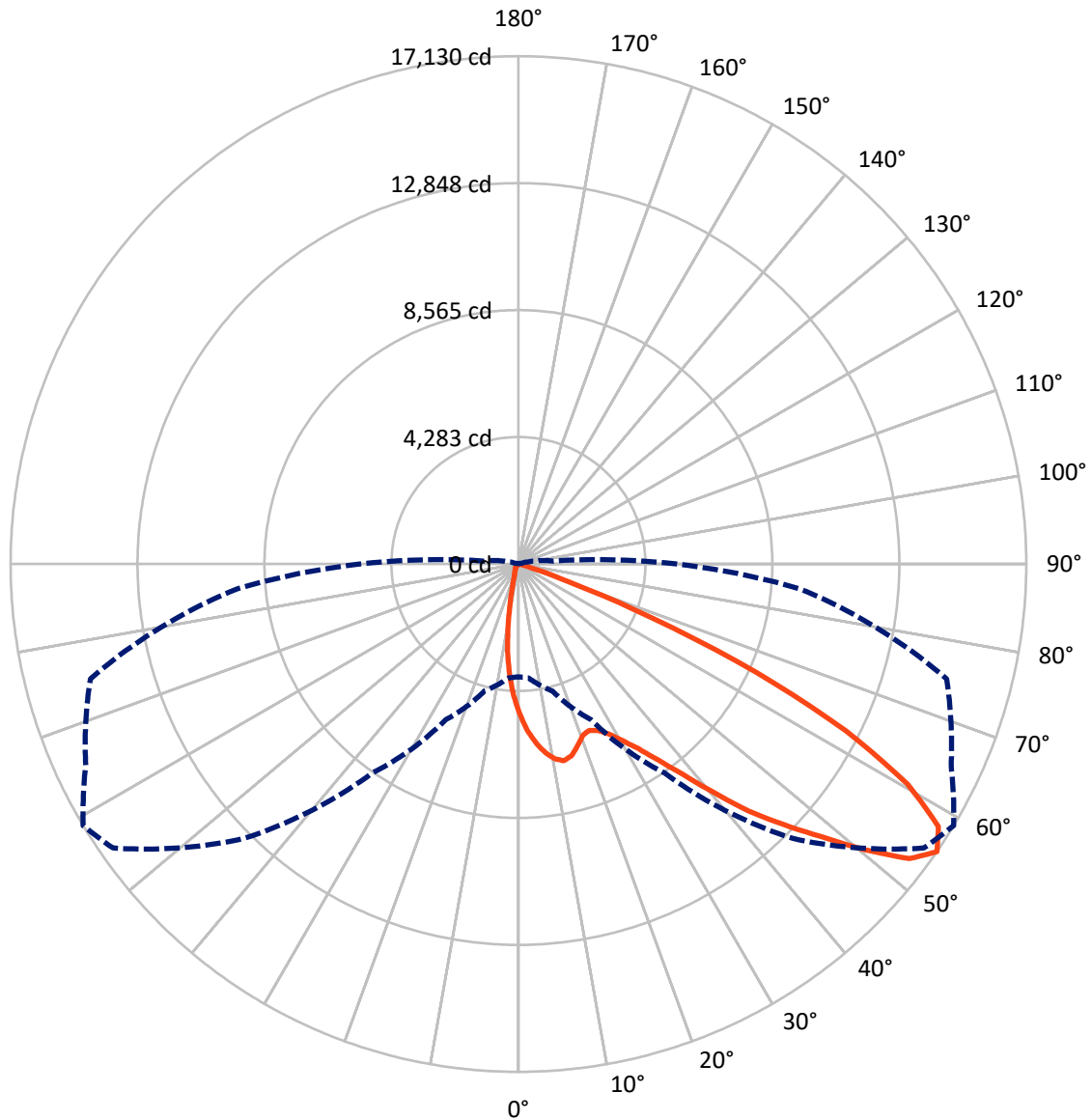


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Full Cutoff

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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	1001.0	0.0	1001.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	16920.5	0.0	16920.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	17921.5	0.0	17921.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	2.4
10°-20°	1011.7	5.6
20°-30°	1721.6	9.6
30°-40°	2960.7	16.5
40°-50°	4571.0	25.5
50°-60°	4595.3	25.6
60°-70°	2356.5	13.1
70°-80°	255.4	1.4
80°-90°	26.7	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°	17921.5	100.0
0°-180°	17921.5	100.0

Coefficient of Utilization



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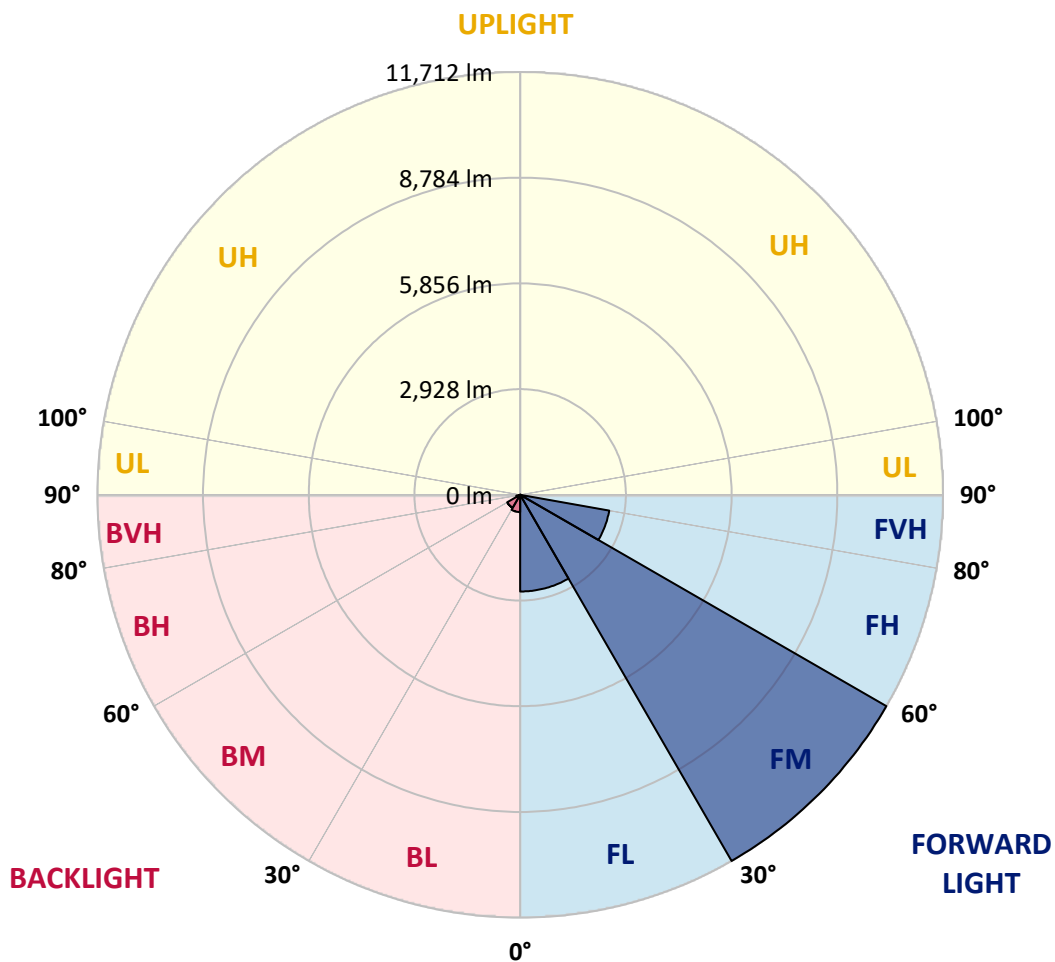
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2678.1	14.9			
FM	(30°-60°)	11711.7	65.3			
FH	(60°-80°)	2504.7	14.0			G2/5000
FVH	(80°-90°)	26.1	0.1			G1/100
BL	(0°-30°)	477.8	2.7	B1/500		
BM	(30°-60°)	415.4	2.3	B1/1000		
BH	(60°-80°)	107.2	0.6	B0/110		G0/110
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: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8
2.5°	5969.2	5905.8	5886.7	5874.0	5815.9	5742.9	5643.5	5596.9	5501.7	5348.4	5160.1
5°	6516.0	6504.4	6462.1	6438.8	6376.4	6272.7	6114.1	6038.0	5886.7	5628.7	5291.3
7.5°	6277.0	6350.0	6408.1	6505.4	6628.1	6623.9	6490.6	6411.3	6242.1	5901.5	5437.2
10°	5353.7	5412.9	5508.1	5729.1	6179.7	6577.3	6733.9	6676.8	6541.4	6152.2	5577.9
12.5°	5172.8	5166.5	5183.4	5247.9	5483.8	6050.6	6692.6	6807.9	6780.4	6381.7	5711.2
15°	5269.1	5261.7	5259.5	5281.8	5338.9	5577.9	6382.7	6713.8	6926.4	6594.3	5824.3
17.5°	5538.8	5507.0	5490.1	5472.1	5455.2	5514.4	6010.5	6450.4	6948.6	6780.4	5918.4
20°	6000.9	5948.1	5885.7	5784.1	5688.9	5659.3	5853.9	6179.7	6869.2	6922.1	5979.8
22.5°	6581.6	6513.9	6406.0	6220.9	6027.4	5915.3	5931.1	6094.0	6750.8	7076.5	6008.3
25°	7234.1	7147.4	7003.6	6746.6	6462.1	6263.2	6159.6	6216.7	6696.9	7257.4	6041.1
27.5°	7933.2	7837.0	7648.7	7298.6	6976.1	6707.4	6495.9	6488.5	6788.9	7494.3	6094.0
30°	8626.0	8611.1	8365.8	7995.6	7568.3	7241.5	6936.9	6897.8	7045.9	7822.2	6198.7
32.5°	9550.3	9439.3	9138.9	8758.2	8265.3	7872.9	7512.3	7421.3	7440.4	8204.0	6360.5
35°	10715.8	10594.2	10171.1	9645.5	9094.5	8631.2	8232.5	8108.8	8062.2	8829.0	6633.4
37.5°	11468.8	11466.7	11201.3	10666.1	10074.9	9564.1	9130.4	8985.5	8891.4	9584.2	7056.4
40°	11488.9	11538.6	11573.5	11568.3	11147.3	10676.7	10291.7	10113.0	9894.0	10593.1	7603.2
42.5°	10872.3	11000.3	11308.1	11830.5	12080.1	11892.9	11568.3	11392.7	11066.9	11673.0	8269.5
45°	10038.9	10127.8	10666.1	11628.5	12585.7	13098.6	12851.1	12537.0	12107.6	12799.3	8867.1
47.5°	9665.6	9681.5	10029.4	11086.0	12623.8	14086.4	14236.6	13725.8	13053.2	13706.8	9334.6
50°	8549.8	8578.4	9058.5	10145.8	12177.4	14552.9	15628.5	15144.1	14084.3	14405.8	9504.8
52.5°	6444.1	6484.3	7093.5	8600.6	10950.6	14354.0	16624.7	16507.3	15213.9	14747.5	9514.4
55°	3802.1	3855.0	4436.7	5789.4	8613.3	13089.1	16698.8	17130.3	16105.4	14949.5	9499.5
57.5°	1775.7	1812.8	2145.9	2982.5	5356.8	10344.6	15584.0	16703.0	16597.2	15056.3	9604.3
60°	943.4	954.0	1034.4	1291.4	2420.9	6559.4	13408.5	15082.7	16148.8	15204.4	9732.2
62.5°	721.3	724.5	720.2	750.9	1017.4	2911.6	10135.2	12399.5	14343.4	15093.3	9590.5
65°	625.1	630.3	600.7	593.3	652.6	1038.6	6021.0	8838.5	11271.1	13594.7	8624.9
67.5°	560.5	562.7	526.7	496.0	506.6	561.6	2375.4	4838.6	7460.5	9964.9	6251.6
70°	516.1	514.0	474.9	426.2	412.5	383.9	755.1	1773.6	3565.2	5053.3	2907.4
72.5°	456.9	457.9	438.9	375.5	342.7	268.6	350.1	517.2	1064.0	1377.0	681.1
75°	405.1	399.8	376.5	336.3	282.4	176.6	173.4	230.6	327.9	325.7	147.0
77.5°	293.0	287.7	295.1	276.0	216.8	114.2	86.7	111.1	133.3	129.0	41.2
80°	214.7	211.5	190.4	229.5	191.4	78.3	53.9	59.2	68.7	58.2	12.7
82.5°	147.0	146.0	134.3	126.9	108.9	47.6	33.8	37.0	44.4	32.8	6.3
85°	23.3	26.4	97.3	77.2	64.5	21.2	23.3	25.4	29.6	18.0	2.1
87.5°	0.0	0.0	45.5	40.2	12.7	8.5	13.7	14.8	14.8	9.5	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°	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8	5044.8
2.5°	5063.9	4958.1	4762.5	4560.5	4373.3	4150.1	3996.7	3881.5	3748.2	3712.2	3790.5
5°	5098.8	4898.9	4478.0	4020.0	3589.6	3112.6	2747.7	2459.0	2197.7	2108.9	2189.3
7.5°	5153.8	4856.6	4170.2	3416.1	2667.3	1922.8	1413.0	1077.7	864.1	800.6	834.5
10°	5208.8	4795.3	3813.8	2701.2	1677.4	936.0	609.2	486.5	441.0	431.5	436.8
12.5°	5254.3	4712.8	3379.1	1920.6	896.9	501.3	398.7	378.6	372.3	372.3	374.4
15°	5281.8	4588.0	2864.0	1221.6	516.1	378.6	348.0	341.6	341.6	342.7	344.8
17.5°	5278.6	4429.3	2300.3	739.3	386.0	335.3	317.3	312.0	310.9	313.1	314.1
20°	5239.5	4222.0	1734.5	487.6	336.3	305.7	287.7	278.2	277.1	279.2	281.3
22.5°	5165.4	3966.1	1240.6	375.5	303.5	277.1	254.9	246.4	246.4	248.5	250.7
25°	5075.5	3653.0	848.2	318.3	273.9	246.4	225.3	217.9	220.0	225.3	226.3
27.5°	4963.4	3300.8	576.4	272.9	238.0	215.8	199.9	194.6	199.9	207.3	209.4
30°	4867.2	2933.8	411.4	235.8	202.0	186.1	176.6	176.6	184.0	197.8	200.9
32.5°	4793.1	2578.5	317.3	208.4	175.6	161.8	156.5	161.8	173.4	187.2	190.4
35°	4783.6	2285.5	268.6	186.1	156.5	142.8	140.7	150.2	161.8	172.4	174.5
37.5°	4856.6	2014.8	242.2	168.2	139.6	126.9	124.8	136.4	148.1	160.8	163.9
40°	4995.1	1802.2	223.2	151.2	125.9	112.1	107.9	116.3	132.2	149.1	153.4
42.5°	5174.9	1626.6	202.0	134.3	112.1	93.1	87.8	97.3	114.2	132.2	137.5
45°	5346.3	1475.4	178.7	115.3	94.1	71.9	69.8	82.5	91.0	108.9	113.2
47.5°	5440.4	1342.1	158.6	94.1	73.0	58.2	58.2	61.3	69.8	91.0	95.2
50°	5408.7	1235.3	137.5	69.8	50.8	44.4	44.4	43.4	56.1	73.0	76.1
52.5°	5345.2	1174.0	118.5	53.9	34.9	31.7	28.6	31.7	39.1	46.5	47.6
55°	5335.7	1163.4	99.4	43.4	24.3	21.2	15.9	15.9	15.9	14.8	12.7
57.5°	5409.7	1180.3	83.6	34.9	18.0	13.7	8.5	0.0	0.0	0.0	0.0
60°	5485.9	1198.3	71.9	24.3	12.7	7.4	1.1	0.0	0.0	0.0	0.0
62.5°	5359.0	1158.1	60.3	14.8	9.5	3.2	0.0	0.0	0.0	0.0	0.0
65°	4707.5	985.7	47.6	10.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3348.4	660.0	31.7	6.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1528.3	276.0	20.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	326.8	85.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	66.6	62.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.2	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.7	70.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	10.6	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)