

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: P300690

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300690
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-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K 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: 18584.5 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - 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

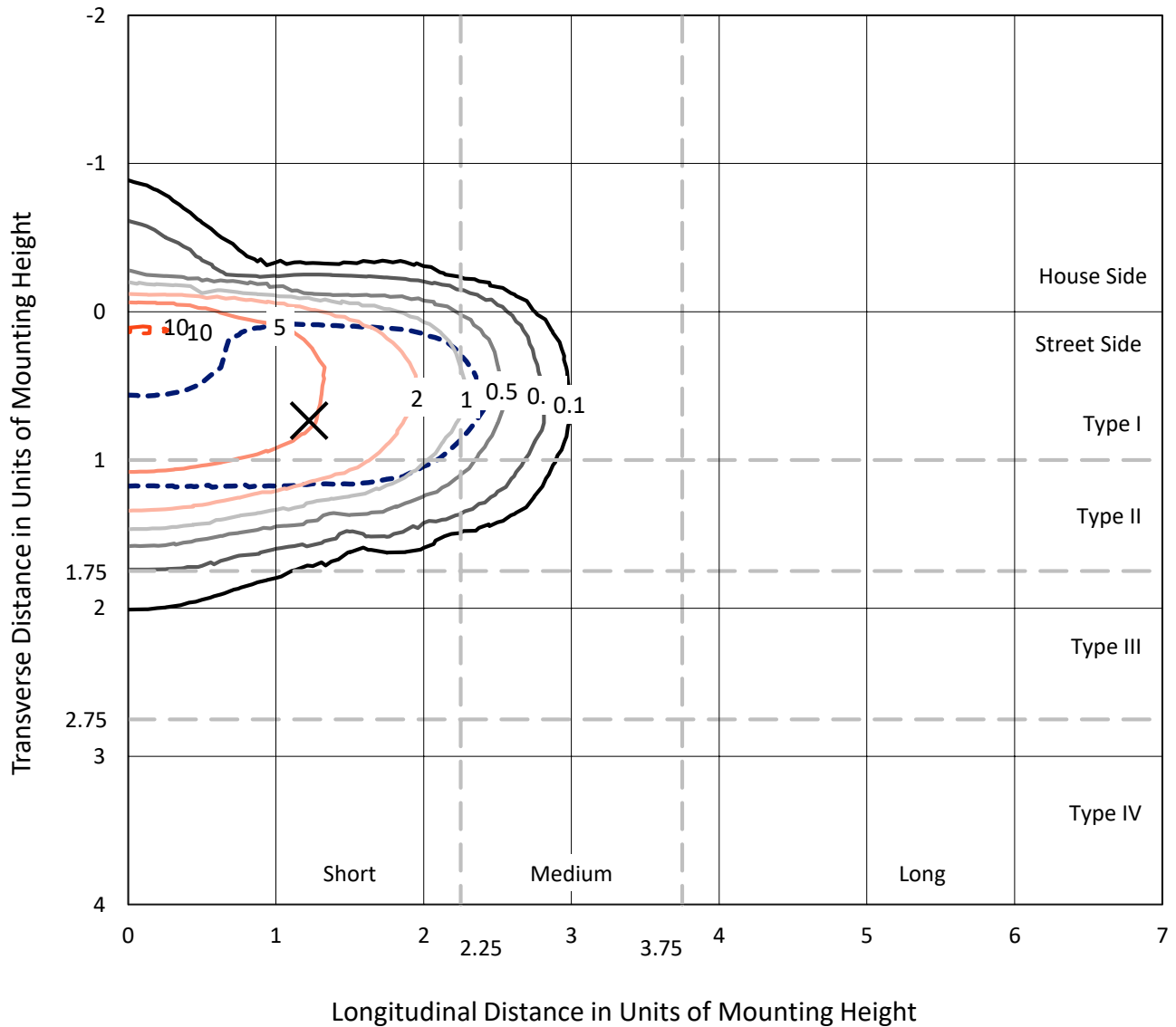


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

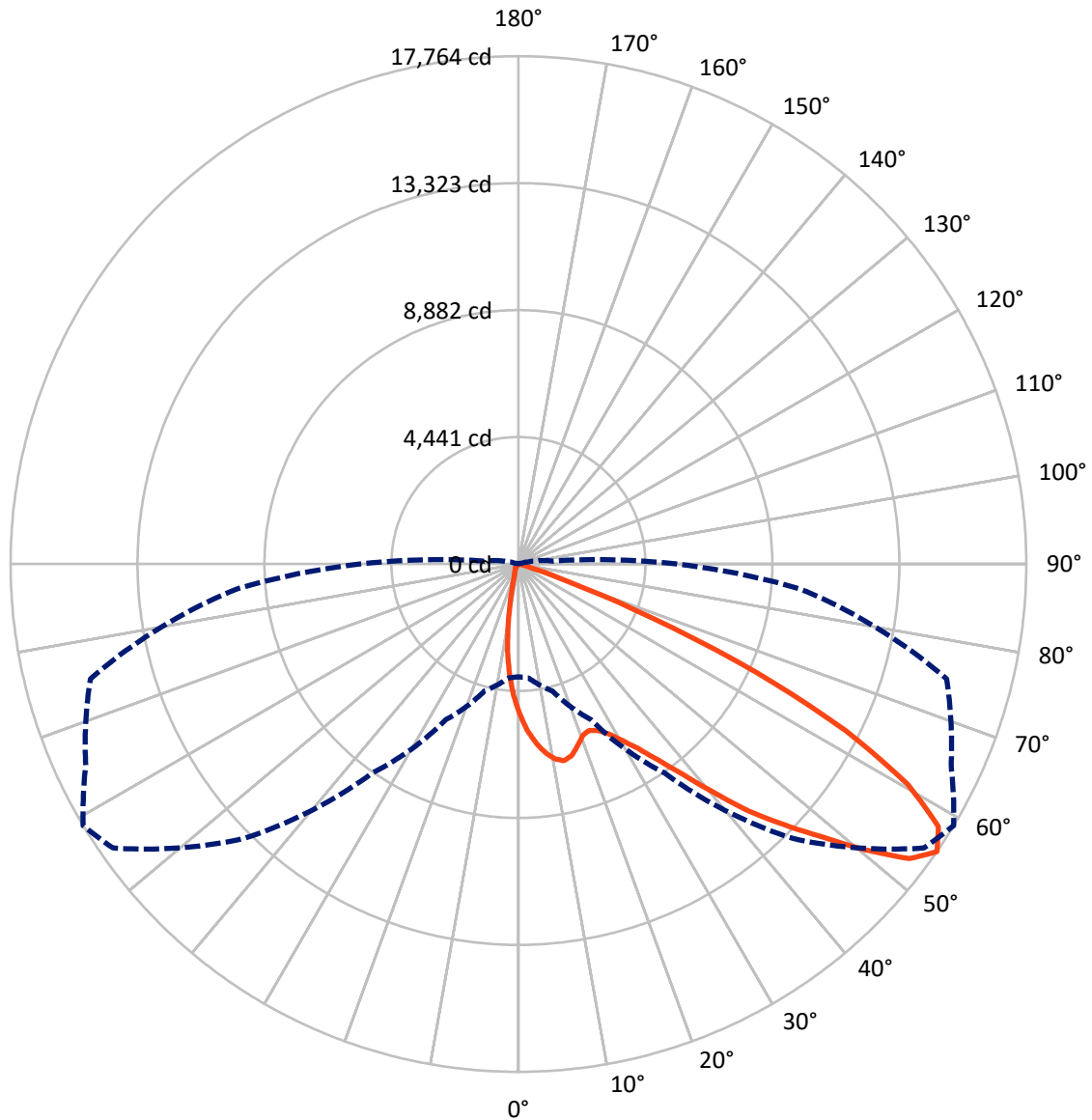


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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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	1038.1	0.0	1038.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17546.4	0.0	17546.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	18584.5	0.0	18584.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	2.4
10°-20°	1049.1	5.6
20°-30°	1785.3	9.6
30°-40°	3070.2	16.5
40°-50°	4740.1	25.5
50°-60°	4765.3	25.6
60°-70°	2443.7	13.1
70°-80°	264.8	1.4
80°-90°	27.7	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°	18584.5	100.0
0°-180°	18584.5	100.0

Coefficient of Utilization



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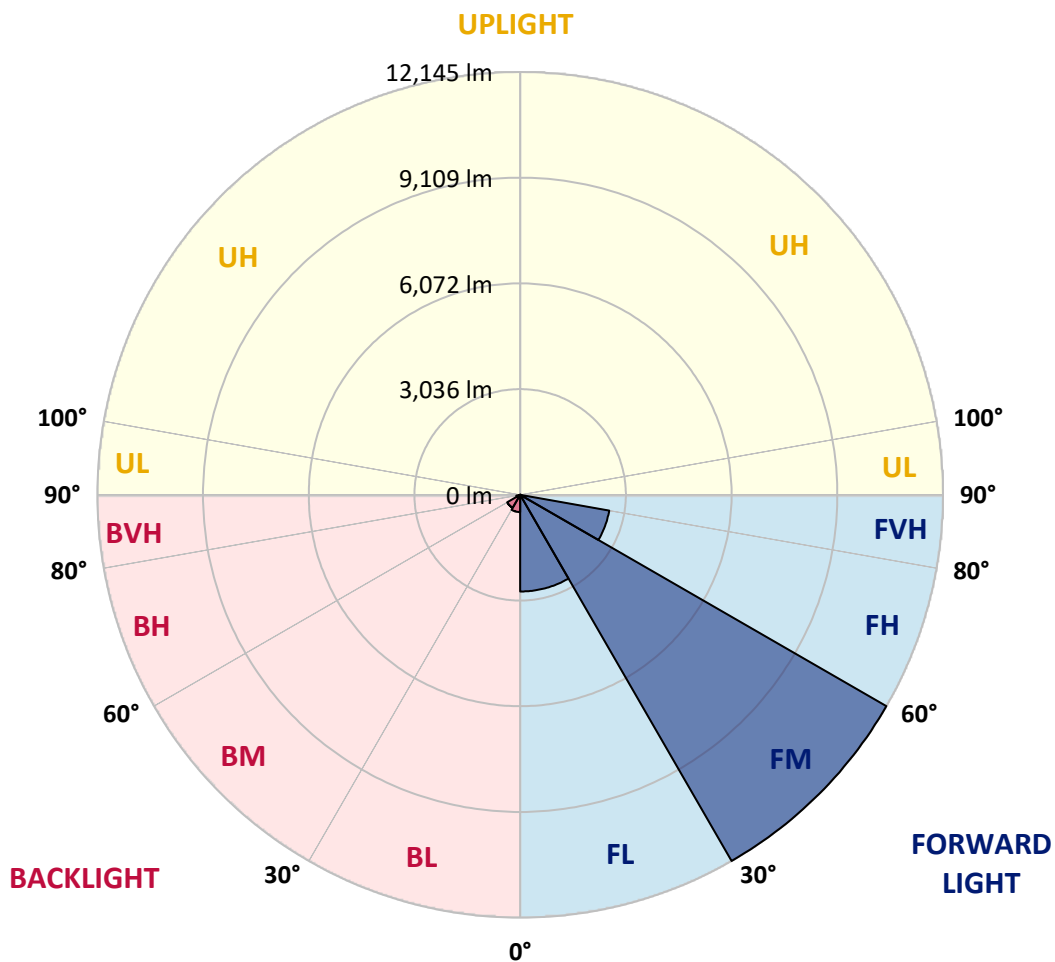
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2777.1	14.9			
FM	(30°-60°)	12144.9	65.3			
FH	(60°-80°)	2597.3	14.0			G2/5000
FVH	(80°-90°)	27.1	0.1			G1/100
BL	(0°-30°)	495.5	2.7	B1/500		
BM	(30°-60°)	430.8	2.3	B1/1000		
BH	(60°-80°)	111.2	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: 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°	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5
2.5°	6190.0	6124.2	6104.5	6091.3	6031.0	5955.3	5852.2	5804.0	5705.2	5546.2	5351.0
5°	6757.0	6745.0	6701.1	6677.0	6612.3	6504.8	6340.3	6261.3	6104.5	5836.9	5487.0
7.5°	6509.2	6584.8	6645.2	6746.1	6873.3	6868.9	6730.7	6648.4	6473.0	6119.8	5638.3
10°	5551.7	5613.1	5711.8	5941.0	6408.3	6820.6	6983.0	6923.7	6783.3	6379.7	5784.2
12.5°	5364.2	5357.6	5375.1	5442.0	5686.6	6274.5	6940.2	7059.7	7031.2	6617.7	5922.4
15°	5464.0	5456.3	5454.1	5477.1	5536.4	5784.2	6618.8	6962.1	7182.6	6838.2	6039.8
17.5°	5743.6	5710.7	5693.2	5674.5	5657.0	5718.4	6232.8	6689.0	7205.6	7031.2	6137.4
20°	6222.9	6168.1	6103.4	5998.1	5899.4	5868.7	6070.5	6408.3	7123.3	7178.2	6201.0
22.5°	6825.0	6754.8	6643.0	6451.0	6250.3	6134.1	6150.5	6319.4	7000.5	7338.3	6230.6
25°	7501.7	7411.8	7262.6	6996.1	6701.1	6494.9	6387.4	6446.6	6944.6	7525.8	6264.6
27.5°	8226.7	8126.9	7931.6	7568.6	7234.1	6955.5	6736.2	6728.5	7040.0	7771.5	6319.4
30°	8945.0	8929.7	8675.2	8291.4	7848.3	7509.4	7193.5	7152.9	7306.5	8111.5	6428.0
32.5°	9903.6	9788.4	9476.9	9082.1	8571.0	8164.1	7790.2	7695.8	7715.6	8507.4	6595.8
35°	11112.2	10986.1	10547.4	10002.3	9430.9	8950.5	8537.0	8408.7	8360.5	9155.6	6878.8
37.5°	11893.1	11890.9	11615.6	11060.6	10447.6	9917.8	9468.2	9317.9	9220.3	9938.7	7317.5
40°	11913.9	11965.4	12001.6	11996.2	11559.7	11071.6	10672.4	10487.0	10260.0	10985.0	7884.5
42.5°	11274.5	11407.2	11726.4	12268.1	12527.0	12332.9	11996.2	11814.1	11476.3	12104.7	8575.4
45°	10410.3	10502.4	11060.6	12058.7	13051.2	13583.1	13326.5	13000.8	12555.5	13272.8	9195.1
47.5°	10023.1	10039.6	10400.4	11496.0	13090.7	14607.5	14763.2	14233.5	13536.0	14213.8	9679.8
50°	8866.1	8895.7	9393.6	10521.0	12627.9	15091.2	16206.5	15704.2	14605.3	14938.7	9856.4
52.5°	6682.4	6724.1	7355.8	8918.7	11355.7	14885.0	17239.7	17117.9	15776.6	15293.0	9866.3
55°	3942.8	3997.6	4600.8	6003.6	8931.9	13573.3	17316.5	17763.9	16701.2	15502.4	9850.9
57.5°	1841.4	1879.8	2225.3	3092.8	5555.0	10727.2	16160.5	17320.8	17211.2	15613.2	9959.5
60°	978.3	989.3	1072.6	1339.1	2510.4	6802.0	13904.5	15640.6	16746.1	15766.8	10092.2
62.5°	748.0	751.3	746.9	778.7	1055.1	3019.3	10510.1	12858.2	14874.0	15651.6	9945.3
65°	648.2	653.7	622.9	615.3	676.7	1077.0	6243.7	9165.5	11688.0	14097.5	8943.9
67.5°	581.3	583.5	546.2	514.4	525.3	582.4	2463.3	5017.6	7736.4	10333.5	6482.8
70°	535.2	533.0	492.4	442.0	427.7	398.1	783.1	1839.2	3697.1	5240.2	3014.9
72.5°	473.8	474.9	455.1	389.3	355.3	278.6	363.0	536.3	1103.3	1428.0	706.3
75°	420.1	414.6	390.4	348.8	292.8	183.2	179.9	239.1	340.0	337.8	152.4
77.5°	303.8	298.3	306.0	286.2	224.8	118.4	89.9	115.2	138.2	133.8	42.8
80°	222.6	219.3	197.4	238.0	198.5	81.2	55.9	61.4	71.3	60.3	13.2
82.5°	152.4	151.4	139.3	131.6	113.0	49.4	35.1	38.4	46.1	34.0	6.6
85°	24.1	27.4	100.9	80.1	66.9	21.9	24.1	26.3	30.7	18.6	2.2
87.5°	0.0	0.0	47.2	41.7	13.2	8.8	14.3	15.4	15.4	9.9	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°	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5
2.5°	5251.2	5141.5	4938.6	4729.1	4535.0	4303.6	4144.6	4025.0	3886.9	3849.6	3930.7
5°	5287.4	5080.1	4643.6	4168.7	3722.3	3227.7	2849.3	2549.9	2279.0	2186.9	2270.3
7.5°	5344.4	5036.2	4324.5	3542.5	2766.0	1993.9	1465.2	1117.6	896.0	830.2	865.3
10°	5401.5	4972.6	3954.8	2801.1	1739.4	970.6	631.7	504.5	457.3	447.5	453.0
12.5°	5448.6	4887.1	3504.1	1991.7	930.0	519.9	413.5	392.6	386.1	386.1	388.2
15°	5477.1	4757.7	2970.0	1266.7	535.2	392.6	360.8	354.2	354.2	355.3	357.5
17.5°	5473.8	4593.2	2385.4	766.6	400.3	347.7	329.0	323.5	322.4	324.6	325.7
20°	5433.3	4378.2	1798.7	505.6	348.8	317.0	298.3	288.4	287.3	289.5	291.7
22.5°	5356.5	4112.8	1286.5	389.3	314.8	287.3	264.3	255.5	255.5	257.7	259.9
25°	5263.3	3788.1	879.6	330.1	284.1	255.5	233.6	225.9	228.1	233.6	234.7
27.5°	5147.0	3422.9	597.7	283.0	246.8	223.7	207.3	201.8	207.3	215.0	217.2
30°	5047.2	3042.4	426.6	244.6	209.5	193.0	183.2	183.2	190.8	205.1	208.4
32.5°	4970.4	2673.9	329.0	216.1	182.1	167.8	162.3	167.8	179.9	194.1	197.4
35°	4960.6	2370.1	278.6	193.0	162.3	148.1	145.9	155.7	167.8	178.8	181.0
37.5°	5036.2	2089.3	251.2	174.4	144.8	131.6	129.4	141.5	153.5	166.7	170.0
40°	5179.9	1868.8	231.4	156.8	130.5	116.3	111.9	120.6	137.1	154.6	159.0
42.5°	5366.4	1686.8	209.5	139.3	116.3	96.5	91.0	100.9	118.4	137.1	142.6
45°	5544.0	1530.0	185.3	119.5	97.6	74.6	72.4	85.5	94.3	113.0	117.4
47.5°	5641.6	1391.8	164.5	97.6	75.7	60.3	60.3	63.6	72.4	94.3	98.7
50°	5608.7	1281.0	142.6	72.4	52.6	46.1	46.1	45.0	58.1	75.7	79.0
52.5°	5542.9	1217.4	122.8	55.9	36.2	32.9	29.6	32.9	40.6	48.3	49.4
55°	5533.1	1206.4	103.1	45.0	25.2	21.9	16.5	16.5	16.5	15.4	13.2
57.5°	5609.8	1224.0	86.6	36.2	18.6	14.3	8.8	0.0	0.0	0.0	0.0
60°	5688.8	1242.6	74.6	25.2	13.2	7.7	1.1	0.0	0.0	0.0	0.0
62.5°	5557.2	1200.9	62.5	15.4	9.9	3.3	0.0	0.0	0.0	0.0	0.0
65°	4881.6	1022.2	49.4	11.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3472.3	684.4	32.9	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1584.8	286.2	20.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	338.9	88.8	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	69.1	64.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.9	102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.2	73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	11.0	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)