

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: P300750

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300750
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-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 15154.2 lumens
Efficiency: N/A
Efficacy: 78.5 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): 193
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

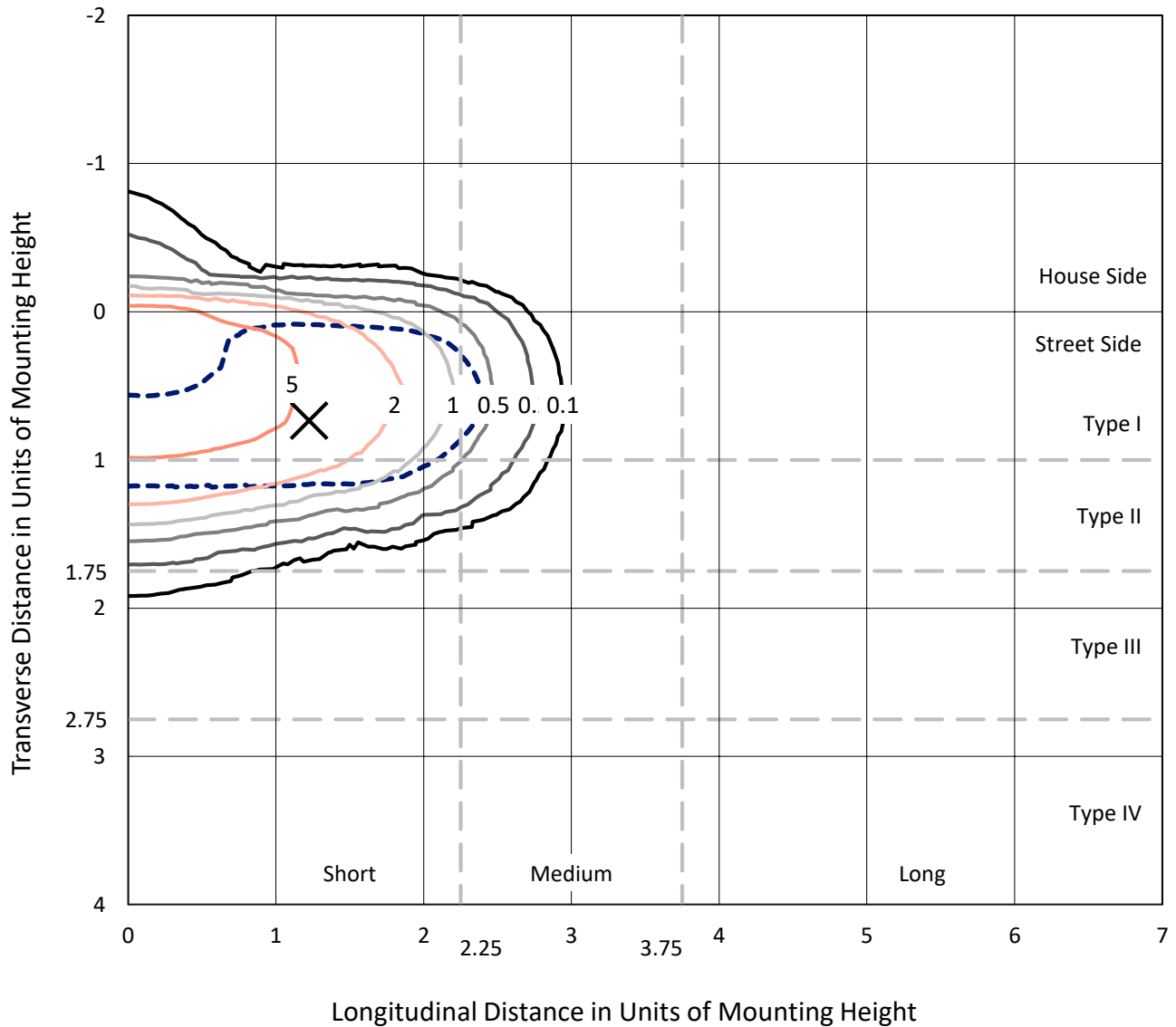


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

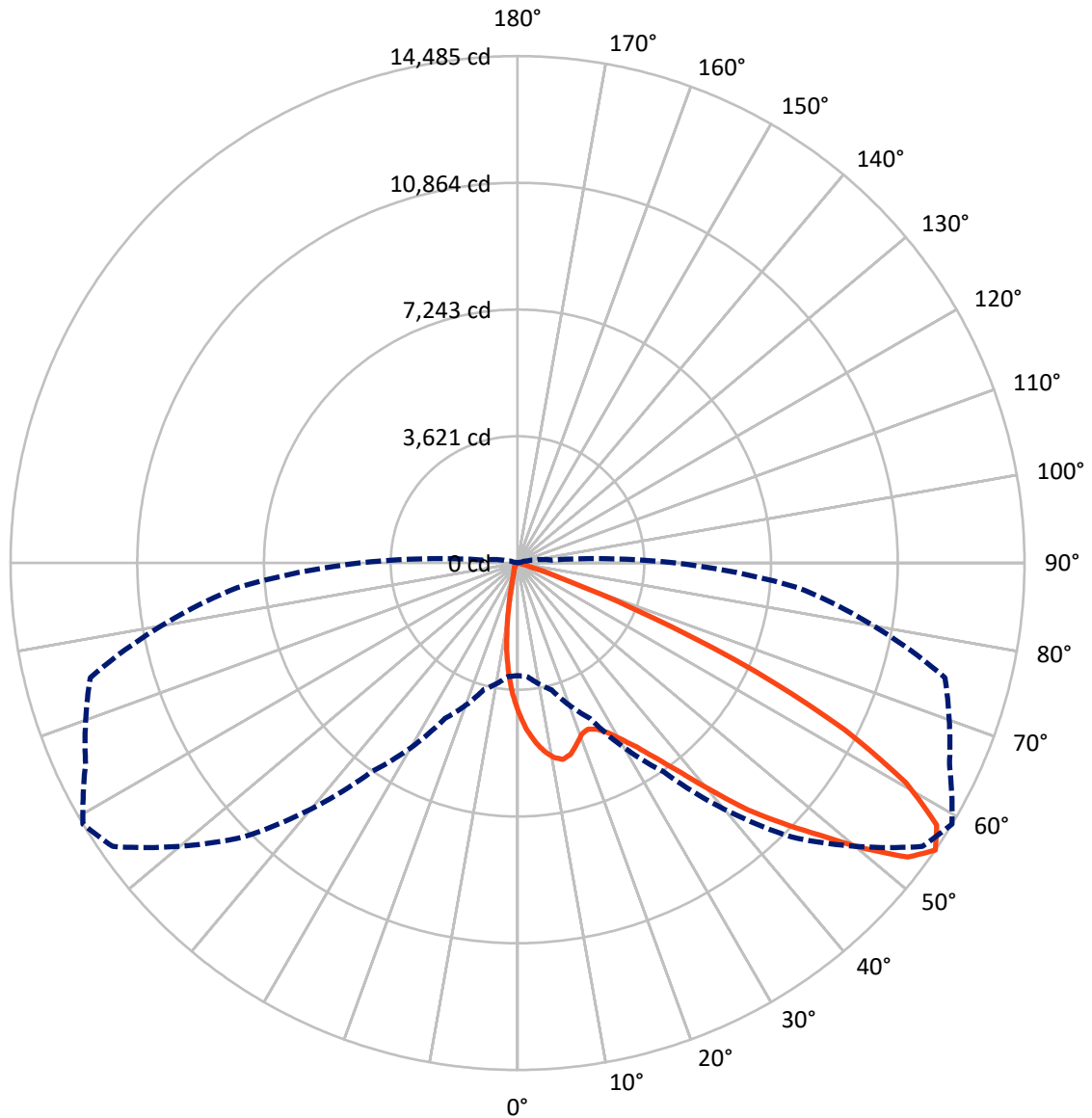


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Full Cutoff

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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	846.4	0.0	846.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14307.7	0.0	14307.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	15154.2	0.0	15154.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	2.4
10°-20°	855.5	5.6
20°-30°	1455.7	9.6
30°-40°	2503.5	16.5
40°-50°	3865.2	25.5
50°-60°	3885.7	25.6
60°-70°	1992.6	13.1
70°-80°	215.9	1.4
80°-90°	22.6	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°	15154.2	100.0
0°-180°	15154.2	100.0

Coefficient of Utilization



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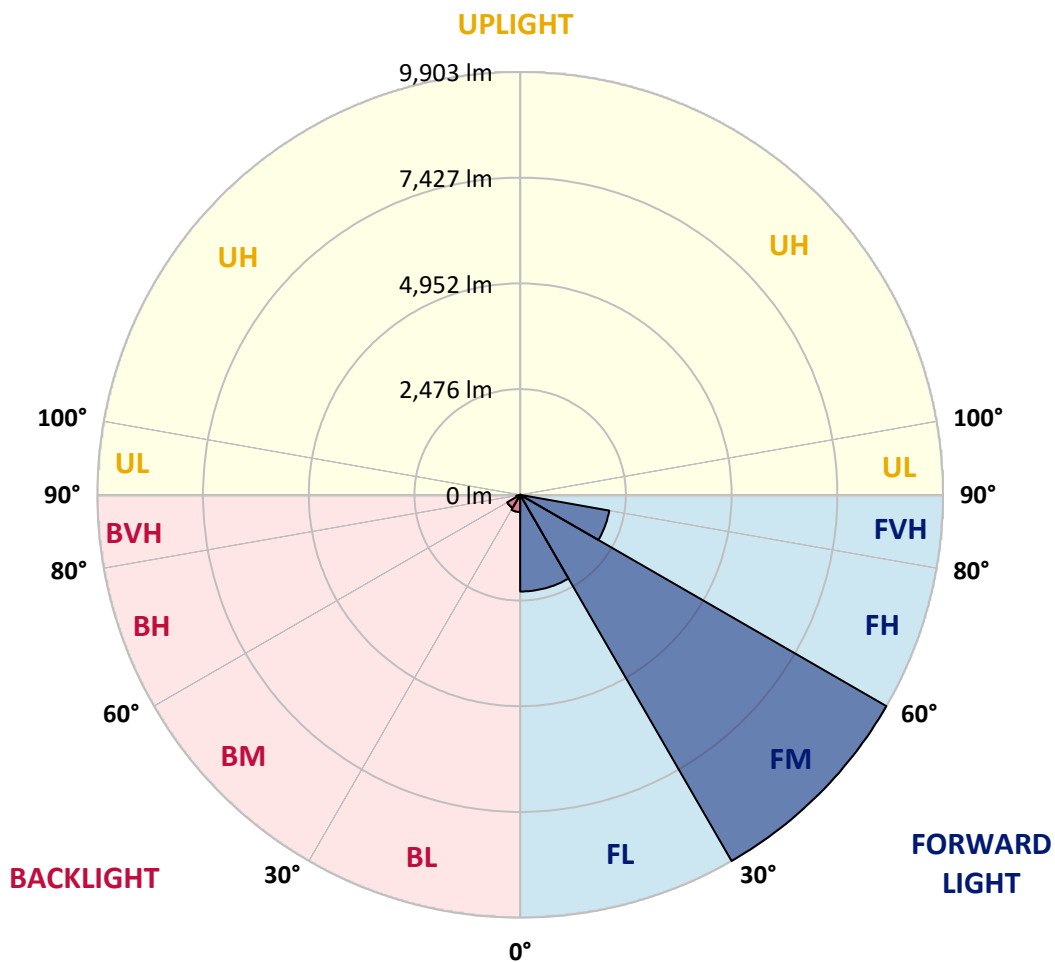
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2264.5	14.9			
FM	(30°-60°)	9903.2	65.3			
FH	(60°-80°)	2117.9	14.0			G2/5000
FVH	(80°-90°)	22.1	0.1			G1/100
BL	(0°-30°)	404.0	2.7	B1/500		
BM	(30°-60°)	351.3	2.3	B1/1000		
BH	(60°-80°)	90.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8
2.5°	5047.5	4993.8	4977.7	4967.0	4917.8	4856.1	4772.0	4732.7	4652.2	4522.5	4363.3
5°	5509.8	5500.0	5464.2	5444.5	5391.8	5304.1	5170.0	5105.6	4977.7	4759.5	4474.2
7.5°	5307.7	5369.4	5418.6	5500.9	5604.6	5601.0	5488.4	5421.3	5278.2	4990.2	4597.6
10°	4527.0	4577.1	4657.6	4844.5	5225.4	5561.7	5694.1	5645.8	5531.3	5202.2	4716.6
12.5°	4374.1	4368.7	4383.0	4437.6	4637.0	5116.3	5659.2	5756.7	5733.4	5396.2	4829.3
15°	4455.4	4449.2	4447.4	4466.2	4514.5	4716.6	5397.1	5677.1	5856.8	5576.0	4924.9
17.5°	4683.5	4656.7	4642.3	4627.1	4612.8	4662.9	5082.3	5454.4	5875.6	5733.4	5004.5
20°	5074.3	5029.6	4976.8	4891.0	4810.5	4785.4	4950.0	5225.4	5808.5	5853.2	5056.4
22.5°	5565.3	5508.0	5416.8	5260.3	5096.7	5001.9	5015.3	5153.0	5708.4	5983.8	5080.6
25°	6117.1	6043.7	5922.1	5704.8	5464.2	5296.1	5208.4	5256.7	5662.8	6136.7	5108.3
27.5°	6708.2	6626.8	6467.6	6171.6	5898.8	5671.7	5492.8	5486.6	5740.6	6337.1	5153.0
30°	7294.0	7281.4	7074.0	6761.0	6399.7	6123.3	5865.8	5832.7	5957.9	6614.3	5241.5
32.5°	8075.6	7981.7	7727.7	7405.8	6989.0	6657.2	6352.3	6275.4	6291.5	6937.1	5378.4
35°	9061.1	8958.3	8600.6	8156.1	7690.1	7298.4	6961.3	6856.7	6817.3	7465.7	5609.1
37.5°	9697.9	9696.1	9471.6	9019.1	8519.2	8087.2	7720.6	7598.0	7518.4	8104.2	5966.8
40°	9714.9	9756.9	9786.4	9781.9	9426.0	9028.0	8702.5	8551.4	8366.2	8957.4	6429.2
42.5°	9193.5	9301.7	9561.9	10003.7	10214.8	10056.5	9781.9	9633.5	9358.0	9870.5	6992.6
45°	8488.8	8563.9	9019.1	9832.9	10642.3	11076.0	10866.7	10601.1	10238.0	10822.9	7497.9
47.5°	8173.1	8186.5	8480.7	9374.1	10674.4	11911.3	12038.3	11606.3	11037.5	11590.2	7893.2
50°	7229.6	7253.7	7659.7	8579.1	10297.1	12305.7	13215.2	12805.6	11909.5	12181.4	8037.1
52.5°	5449.0	5483.0	5998.1	7272.5	9259.7	12137.5	14057.6	13958.3	12864.6	12470.2	8045.2
55°	3215.0	3259.7	3751.6	4895.4	7283.2	11067.9	14120.2	14485.1	13618.5	12641.0	8032.7
57.5°	1501.5	1532.8	1814.5	2521.9	4529.7	8747.2	13177.6	14123.8	14034.4	12731.4	8121.2
60°	797.7	806.7	874.6	1091.9	2047.1	5546.5	11338.0	12753.7	13655.2	12856.6	8229.4
62.5°	609.9	612.6	609.0	635.0	860.3	2462.0	8570.1	10484.9	12128.6	12762.7	8109.6
65°	528.5	533.0	508.0	501.7	551.8	878.2	5091.3	7473.7	9530.6	11495.4	7293.1
67.5°	474.0	475.8	445.4	419.4	428.4	474.9	2008.6	4091.5	6308.4	8426.2	5286.2
70°	436.4	434.6	401.5	360.4	348.8	324.6	638.5	1499.8	3014.7	4273.0	2458.5
72.5°	386.3	387.2	371.1	317.5	289.8	227.2	296.0	437.3	899.7	1164.4	575.9
75°	342.5	338.0	318.4	284.4	238.8	149.3	146.7	195.0	277.2	275.4	124.3
77.5°	247.7	243.3	249.5	233.4	183.3	96.6	73.3	93.9	112.7	109.1	34.9
80°	181.5	178.9	161.0	194.1	161.9	66.2	45.6	50.1	58.1	49.2	10.7
82.5°	124.3	123.4	113.6	107.3	92.1	40.2	28.6	31.3	37.6	27.7	5.4
85°	19.7	22.4	82.3	65.3	54.6	17.9	19.7	21.5	25.0	15.2	1.8
87.5°	0.0	0.0	38.5	34.0	10.7	7.2	11.6	12.5	12.5	8.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8	4265.8
2.5°	4281.9	4192.5	4027.1	3856.3	3698.0	3509.3	3379.6	3282.1	3169.4	3139.0	3205.2
5°	4311.5	4142.4	3786.5	3399.3	3035.3	2631.9	2323.4	2079.3	1858.4	1783.2	1851.2
7.5°	4358.0	4106.7	3526.3	2888.6	2255.4	1625.9	1194.8	911.3	730.6	677.0	705.6
10°	4404.5	4054.8	3224.9	2284.1	1418.4	791.5	515.1	411.4	372.9	364.9	369.3
12.5°	4442.9	3985.0	2857.3	1624.1	758.4	423.9	337.2	320.2	314.8	314.8	316.6
15°	4466.2	3879.5	2421.8	1032.9	436.4	320.2	294.2	288.9	288.9	289.8	291.5
17.5°	4463.5	3745.4	1945.1	625.1	326.4	283.5	268.3	263.8	262.9	264.7	265.6
20°	4430.4	3570.1	1466.7	412.3	284.4	258.5	243.3	235.2	234.3	236.1	237.9
22.5°	4367.8	3353.7	1049.0	317.5	256.7	234.3	215.5	208.4	208.4	210.2	212.0
25°	4291.8	3088.9	717.2	269.2	231.6	208.4	190.5	184.2	186.0	190.5	191.4
27.5°	4197.0	2791.1	487.4	230.7	201.2	182.4	169.0	164.6	169.0	175.3	177.1
30°	4115.6	2480.8	347.9	199.4	170.8	157.4	149.3	149.3	155.6	167.2	169.9
32.5°	4053.0	2180.3	268.3	176.2	148.5	136.8	132.4	136.8	146.7	158.3	161.0
35°	4045.0	1932.6	227.2	157.4	132.4	120.7	118.9	127.0	136.8	145.8	147.6
37.5°	4106.7	1703.7	204.8	142.2	118.0	107.3	105.5	115.4	125.2	135.9	138.6
40°	4223.8	1523.9	188.7	127.9	106.4	94.8	91.2	98.4	111.8	126.1	129.7
42.5°	4375.8	1375.4	170.8	113.6	94.8	78.7	74.2	82.3	96.6	111.8	116.3
45°	4520.7	1247.6	151.1	97.5	79.6	60.8	59.0	69.8	76.9	92.1	95.7
47.5°	4600.3	1134.9	134.1	79.6	61.7	49.2	49.2	51.9	59.0	76.9	80.5
50°	4573.5	1044.6	116.3	59.0	42.9	37.6	37.6	36.7	47.4	61.7	64.4
52.5°	4519.8	992.7	100.2	45.6	29.5	26.8	24.1	26.8	33.1	39.3	40.2
55°	4511.8	983.7	84.1	36.7	20.6	17.9	13.4	13.4	13.4	12.5	10.7
57.5°	4574.4	998.0	70.7	29.5	15.2	11.6	7.2	0.0	0.0	0.0	0.0
60°	4638.8	1013.2	60.8	20.6	10.7	6.3	0.9	0.0	0.0	0.0	0.0
62.5°	4531.5	979.3	51.0	12.5	8.0	2.7	0.0	0.0	0.0	0.0	0.0
65°	3980.6	833.5	40.2	8.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2831.4	558.0	26.8	5.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1292.3	233.4	17.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	276.3	72.4	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	56.3	52.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.9	83.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.7	59.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	8.9	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)