

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: P300939

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32207.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

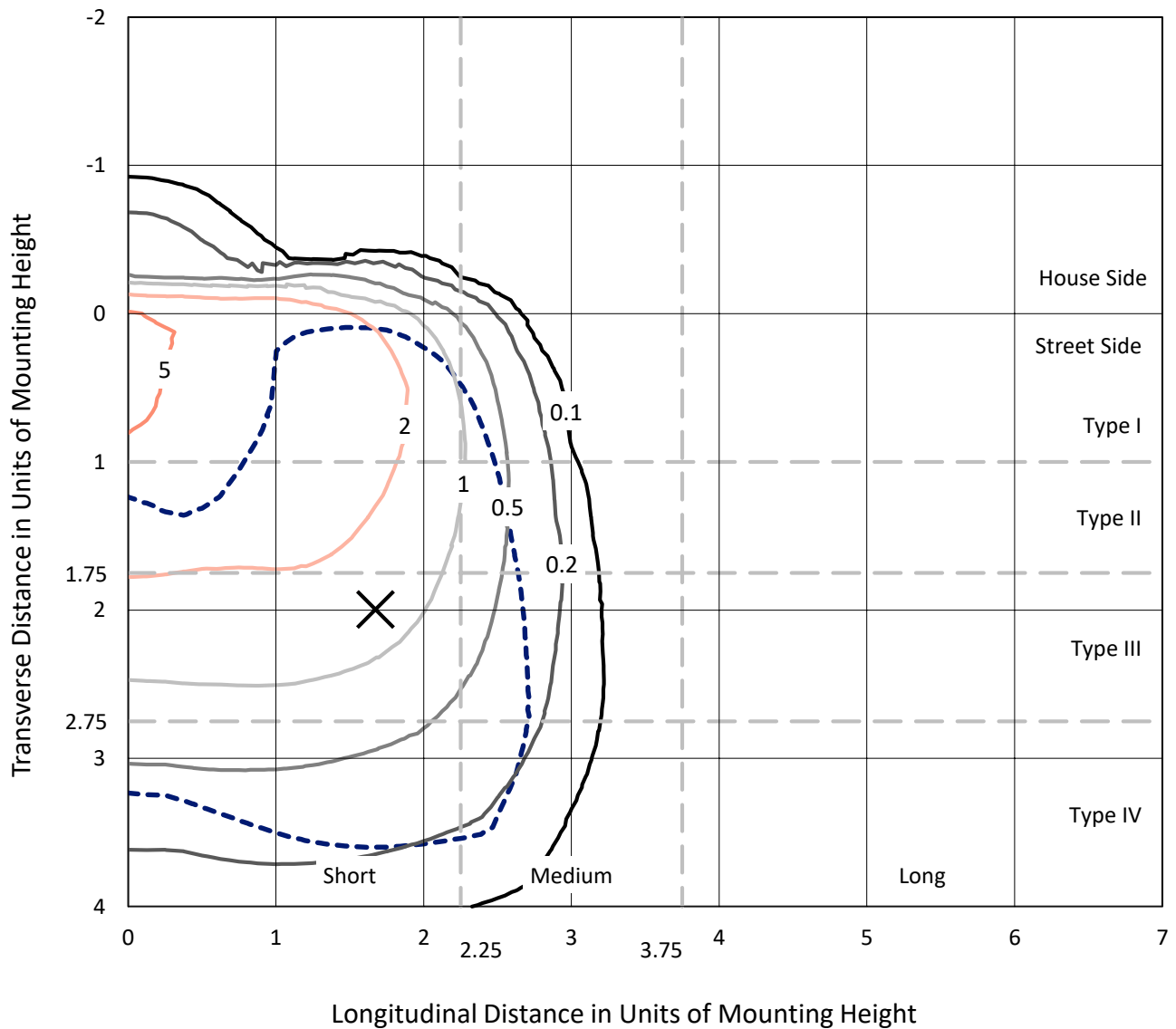
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

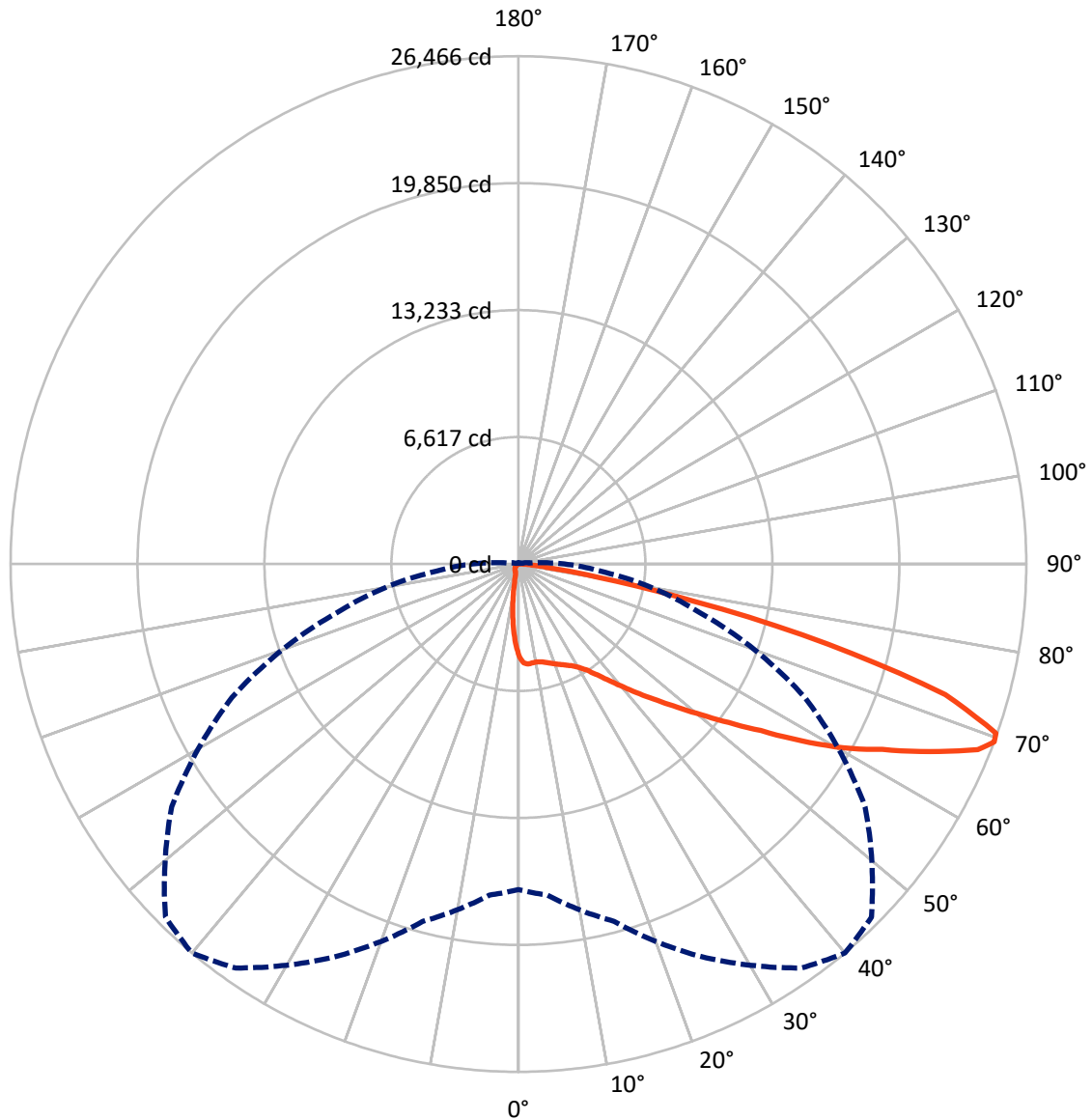
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.3	0.0	1884.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	30323.5	0.0	30323.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	32207.8	0.0	32207.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	1.2
10°-20°	959.5	3.0
20°-30°	1616.1	5.0
30°-40°	2645.6	8.2
40°-50°	4580.7	14.2
50°-60°	7215.1	22.4
60°-70°	9422.6	29.3
70°-80°	4853.1	15.1
80°-90°	525.0	1.6
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°	32207.8	100.0
0°-180°	32207.8	100.0



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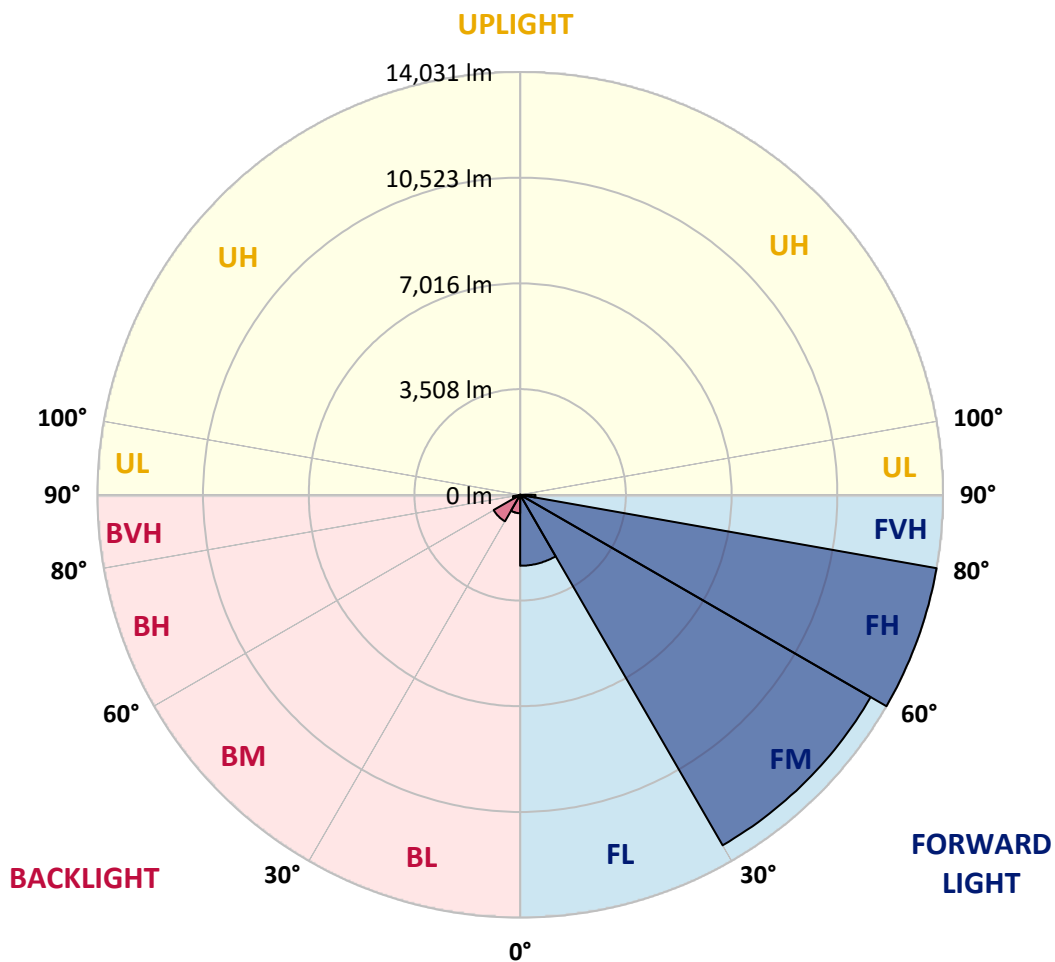
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2355.3	7.3			
FM	(30°-60°)	13428.6	41.7			
FH	(60°-80°)	14031.1	43.6			G5
FVH	(80°-90°)	508.5	1.6			G4/750
BL	(0°-30°)	610.4	1.9	B2/1000		
BM	(30°-60°)	1012.8	3.1	B2/2500		
BH	(60°-80°)	244.7	0.8	B1/500		G1/500
BVH	(80°-90°)	16.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0
2.5°	5283.6	5254.9	5237.6	5214.6	5185.9	5160.9	5151.3	5080.4	5013.3	4921.3	4815.8
5°	5381.4	5371.8	5341.1	5310.5	5276.0	5237.6	5216.5	5132.2	5036.3	4902.1	4718.1
7.5°	5391.0	5379.5	5341.1	5299.0	5251.0	5205.0	5168.6	5084.2	4996.1	4859.9	4635.6
10°	5375.7	5362.2	5333.5	5287.5	5228.0	5183.9	5147.5	5067.0	4992.2	4869.5	4620.3
12.5°	5358.4	5345.0	5331.6	5308.6	5256.8	5226.1	5195.4	5118.8	5051.7	4948.1	4675.9
15°	5375.7	5368.0	5383.3	5373.7	5345.0	5318.1	5287.5	5218.4	5157.1	5070.8	4777.5
17.5°	5448.5	5448.5	5496.4	5502.2	5475.3	5437.0	5392.9	5323.9	5272.1	5199.3	4898.3
20°	5619.1	5613.4	5674.7	5686.2	5621.0	5561.6	5496.4	5412.1	5371.8	5325.8	5017.1
22.5°	5912.5	5885.6	5922.0	5910.5	5782.1	5690.1	5609.5	5506.0	5484.9	5463.8	5149.4
25°	6294.0	6278.6	6303.5	6190.4	5964.2	5839.6	5743.7	5626.8	5626.8	5647.9	5299.0
27.5°	6848.0	6790.5	6706.1	6506.8	6167.4	6008.3	5904.8	5780.2	5812.8	5891.4	5496.4
30°	7415.5	7352.2	7158.6	6851.8	6414.7	6248.0	6127.2	5996.8	6073.5	6217.3	5761.0
32.5°	7975.3	7904.4	7630.2	7242.9	6769.4	6602.6	6485.7	6341.9	6470.3	6711.9	6148.3
35°	8517.8	8454.6	8138.2	7682.0	7241.0	7103.0	6995.6	6871.0	7035.9	7373.3	6694.6
37.5°	9127.5	9058.5	8673.1	8178.5	7814.3	7714.6	7636.0	7511.3	7798.9	8293.5	7455.7
40°	9877.1	9760.1	9240.6	8747.9	8477.6	8429.7	8376.0	8358.7	8805.4	9489.8	8469.9
42.5°	10736.0	10544.3	9834.9	9348.0	9206.1	9240.6	9227.2	9303.9	10065.0	10977.5	9704.6
45°	11594.8	11347.5	10496.3	9988.3	10007.5	10128.2	10203.0	10509.7	11642.8	12683.8	11033.1
47.5°	12323.4	12079.9	11130.9	10680.4	10910.4	11148.2	11351.4	11932.3	13264.7	14363.2	12066.5
50°	12946.4	12716.4	11803.8	11441.5	11959.1	12342.5	12672.3	13533.1	15009.3	15641.9	12791.1
52.5°	13456.4	13303.0	12501.7	12313.8	13157.3	13719.0	14202.2	15233.6	16554.5	16681.0	13354.8
55°	13952.9	13843.7	13251.3	13350.9	14564.5	15329.4	15941.0	17037.6	17885.0	17547.6	13895.4
57.5°	14524.2	14424.5	14106.3	14666.1	16414.5	17376.9	18044.1	18636.5	19056.3	18433.3	14405.4
60°	15107.0	15049.5	15057.2	16127.0	18538.7	19462.8	19830.9	19984.2	20206.6	19267.2	14434.1
62.5°	15663.0	15772.3	16144.2	17752.7	20572.8	21282.1	21468.1	21619.6	21358.8	19399.5	13335.6
65°	16604.3	16782.6	17670.3	19928.6	22810.1	23569.3	23761.0	23241.5	21541.0	17689.4	10847.2
67.5°	17064.4	17390.4	18973.9	21957.0	24980.3	25823.8	25752.9	23346.9	19330.5	13489.0	6961.1
69°	16968.6	17315.6	19274.9	22578.1	25701.1	26466.1	26015.6	22056.7	16468.2	9771.7	4273.3
70°	16589.0	16939.8	19119.6	22555.1	25793.2	26399.0	25528.6	20463.5	13924.2	7145.2	2672.5
72.5°	13853.2	14156.1	16974.3	20386.8	23761.0	23268.3	21356.9	14177.2	6784.8	1945.9	602.0
75°	8527.4	8696.1	12179.6	15358.2	17946.3	16681.0	14229.0	7053.1	2022.6	550.2	333.6
77.5°	4505.3	4582.0	6667.8	9052.7	11376.3	9413.1	7292.8	2751.1	931.7	345.1	241.6
80°	2662.9	2720.4	3590.8	4139.1	4923.2	4112.3	2916.0	1689.0	667.2	216.6	214.7
82.5°	1524.1	1560.6	2603.5	2300.6	1940.1	1656.4	1451.3	1600.8	400.7	145.7	222.4
85°	559.8	567.5	1464.7	1750.3	1154.1	686.3	720.8	1326.7	107.4	92.0	174.5
87.5°	260.7	255.0	753.4	1071.7	674.8	435.2	561.7	291.4	42.2	59.4	47.9
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°	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0	4812.0
2.5°	4754.5	4683.6	4555.1	4422.8	4288.6	4185.1	4083.5	4003.0	3976.1	3926.3	3930.1
5°	4608.8	4478.4	4210.0	3937.8	3654.1	3420.2	3199.7	3021.4	2935.1	2846.9	2846.9
7.5°	4482.3	4292.5	3872.6	3429.8	2971.6	2586.2	2239.2	1978.5	1834.7	1719.7	1717.8
10°	4434.3	4177.4	3590.8	2956.2	2317.8	1792.5	1380.3	1115.8	979.7	891.5	887.6
12.5°	4455.4	4137.2	3374.2	2519.1	1717.8	1152.2	799.4	628.8	571.3	544.5	544.5
15°	4516.8	4125.7	3157.5	2091.6	1213.5	720.8	531.0	485.0	481.2	481.2	481.2
17.5°	4591.5	4129.5	2935.1	1675.6	826.3	515.7	458.2	452.4	456.3	456.3	456.3
20°	4668.2	4131.4	2695.5	1290.2	582.8	448.6	431.4	429.4	433.3	433.3	435.2
22.5°	4762.2	4141.0	2455.9	964.3	481.2	423.7	410.3	410.3	412.2	412.2	410.3
25°	4869.5	4160.2	2206.6	715.1	439.0	406.4	394.9	393.0	394.9	393.0	391.1
27.5°	5003.7	4187.0	1928.6	559.8	419.9	389.2	379.6	379.6	377.7	375.8	373.8
30°	5172.4	4217.7	1616.1	475.5	400.7	373.8	364.3	362.3	360.4	356.6	356.6
32.5°	5429.3	4284.8	1307.5	431.4	379.6	352.8	345.1	345.1	341.3	337.4	335.5
35°	5824.3	4417.1	1031.4	404.5	356.6	329.7	320.2	320.2	316.3	314.4	312.5
37.5°	6370.6	4618.4	801.4	379.6	333.6	304.8	295.2	293.3	289.5	285.7	283.7
40°	7097.2	4867.6	630.7	356.6	310.6	279.9	272.2	268.4	260.7	255.0	255.0
42.5°	8009.8	5151.3	511.9	331.7	283.7	256.9	251.1	245.4	232.0	226.2	224.3
45°	8964.5	5406.3	433.3	302.9	256.9	233.9	230.1	220.5	203.2	197.5	197.5
47.5°	9652.8	5465.8	381.5	276.1	232.0	209.0	207.1	189.8	174.5	170.6	168.7
50°	10082.2	5348.8	339.3	249.2	209.0	186.0	180.2	159.1	149.5	145.7	143.8
52.5°	10371.7	5139.8	304.8	226.2	187.9	164.9	151.5	136.1	128.4	124.6	124.6
55°	10603.7	4844.6	270.3	205.1	170.6	147.6	128.4	116.9	109.3	105.4	105.4
57.5°	10668.9	4443.9	235.8	187.9	153.4	130.4	109.3	101.6	92.0	90.1	90.1
60°	10195.3	3721.2	209.0	166.8	138.0	113.1	95.9	86.3	76.7	74.8	72.9
62.5°	8947.3	2879.5	184.0	147.6	120.8	97.8	82.4	70.9	63.3	63.3	63.3
65°	6825.0	1930.6	161.0	128.4	105.4	82.4	70.9	57.5	53.7	53.7	55.6
67.5°	4085.4	1050.6	138.0	109.3	90.1	69.0	59.4	49.8	47.9	49.8	49.8
69°	2394.5	617.3	124.6	97.8	78.6	61.3	51.8	44.1	47.9	49.8	49.8
70°	1478.1	416.0	115.0	88.2	70.9	55.6	47.9	42.2	46.0	47.9	47.9
72.5°	412.2	214.7	92.0	69.0	57.5	46.0	38.3	38.3	44.1	46.0	46.0
75°	268.4	159.1	70.9	51.8	44.1	36.4	32.6	36.4	42.2	44.1	44.1
77.5°	222.4	130.4	57.5	42.2	36.4	34.5	30.7	32.6	38.3	40.3	40.3
80°	203.2	92.0	46.0	38.3	32.6	30.7	28.8	26.8	34.5	36.4	36.4
82.5°	193.6	72.9	40.3	34.5	30.7	26.8	24.9	26.8	30.7	32.6	34.5
85°	120.8	47.9	36.4	32.6	26.8	24.9	24.9	24.9	28.8	30.7	30.7
87.5°	44.1	38.3	32.6	26.8	23.0	23.0	23.0	23.0	24.9	28.8	28.8
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)