

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: P299665

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18801.7 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

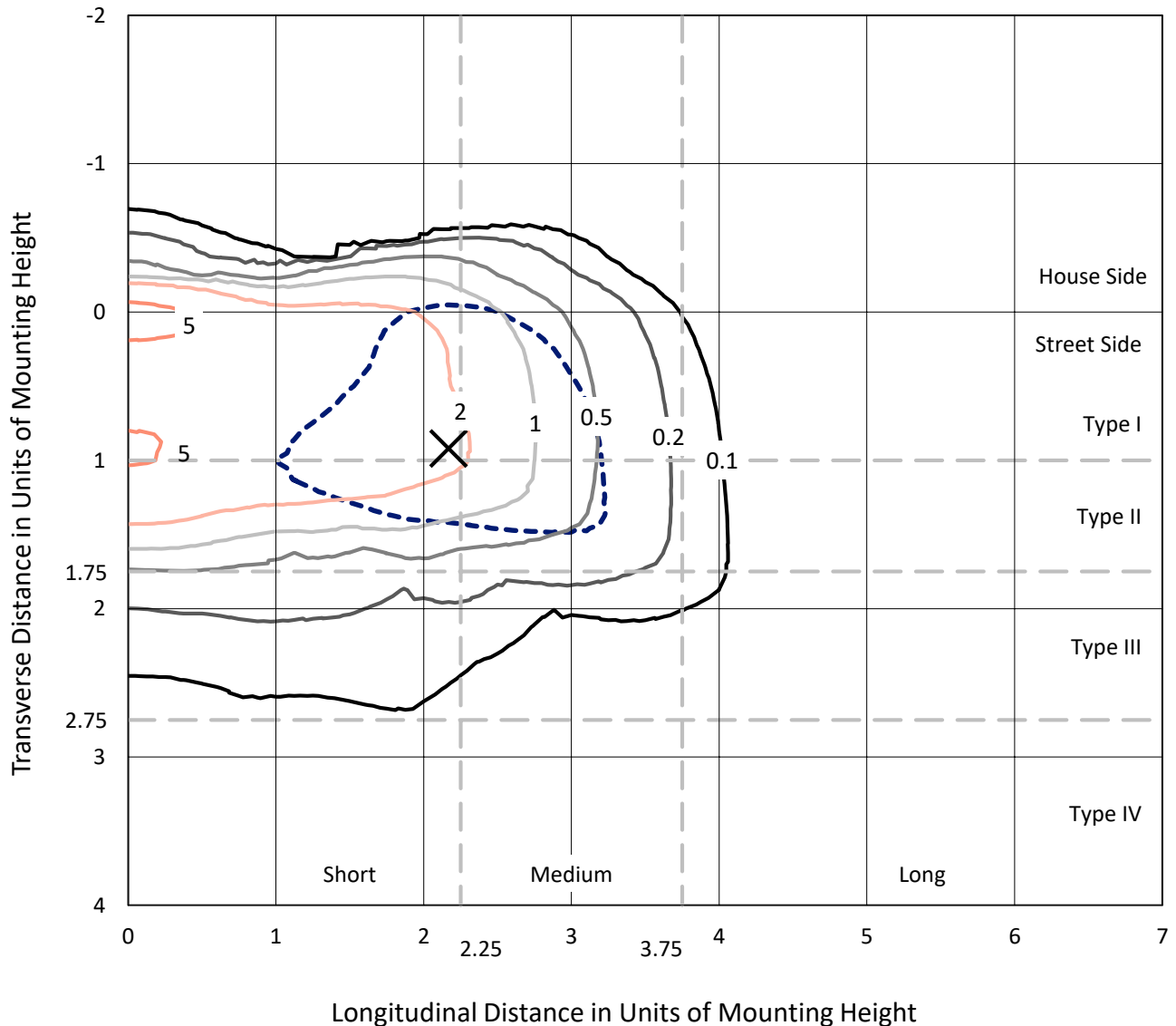


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

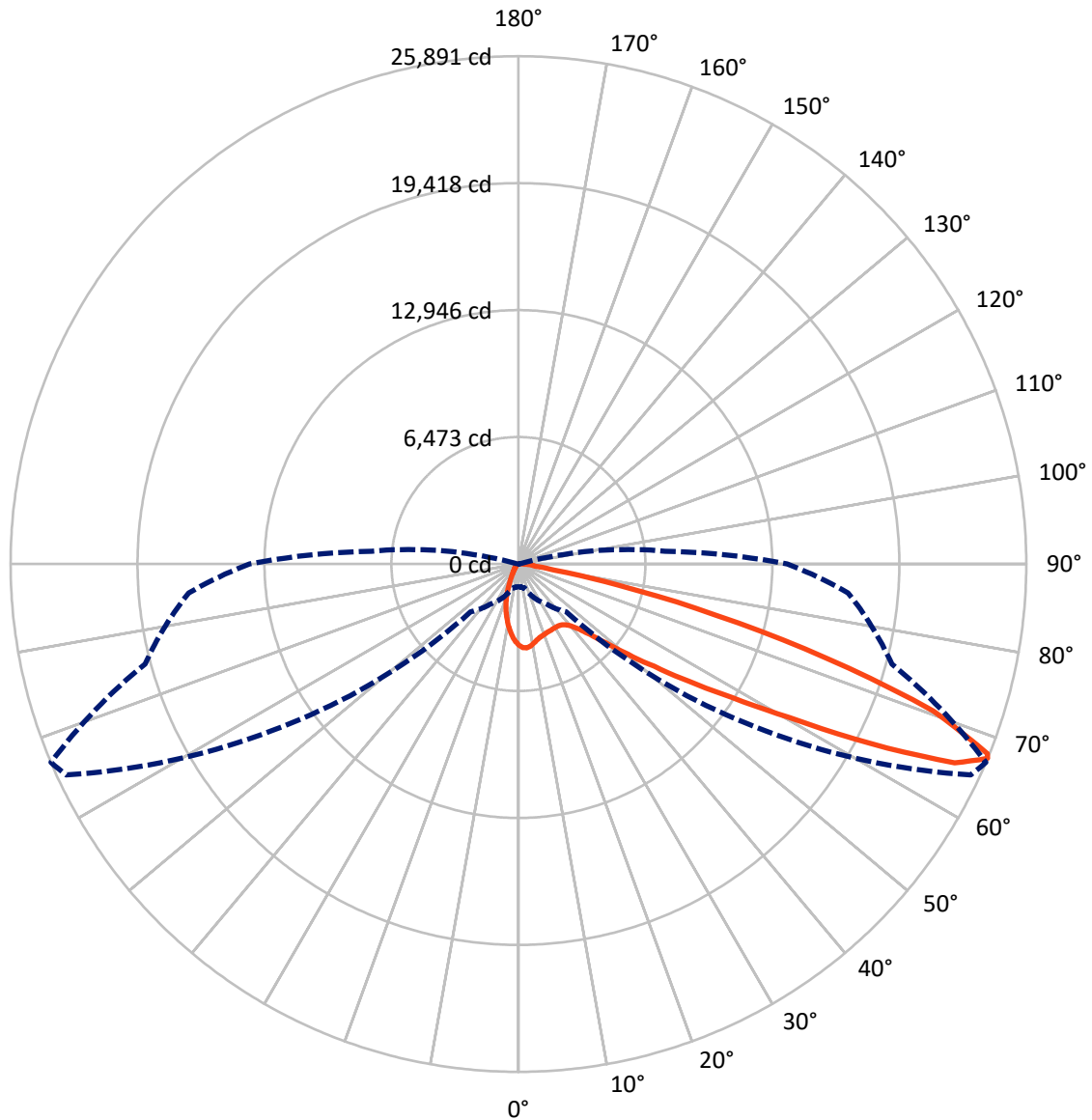


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1952.2	0.0	1952.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16849.5	0.0	16849.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	18801.7	0.0	18801.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.8
10°-20°	718.1	3.8
20°-30°	1044.1	5.6
30°-40°	1628.8	8.7
40°-50°	2885.3	15.3
50°-60°	4565.6	24.3
60°-70°	5229.3	27.8
70°-80°	2169.1	11.5
80°-90°	224.1	1.2
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°	18801.7	100.0
0°-180°	18801.7	100.0



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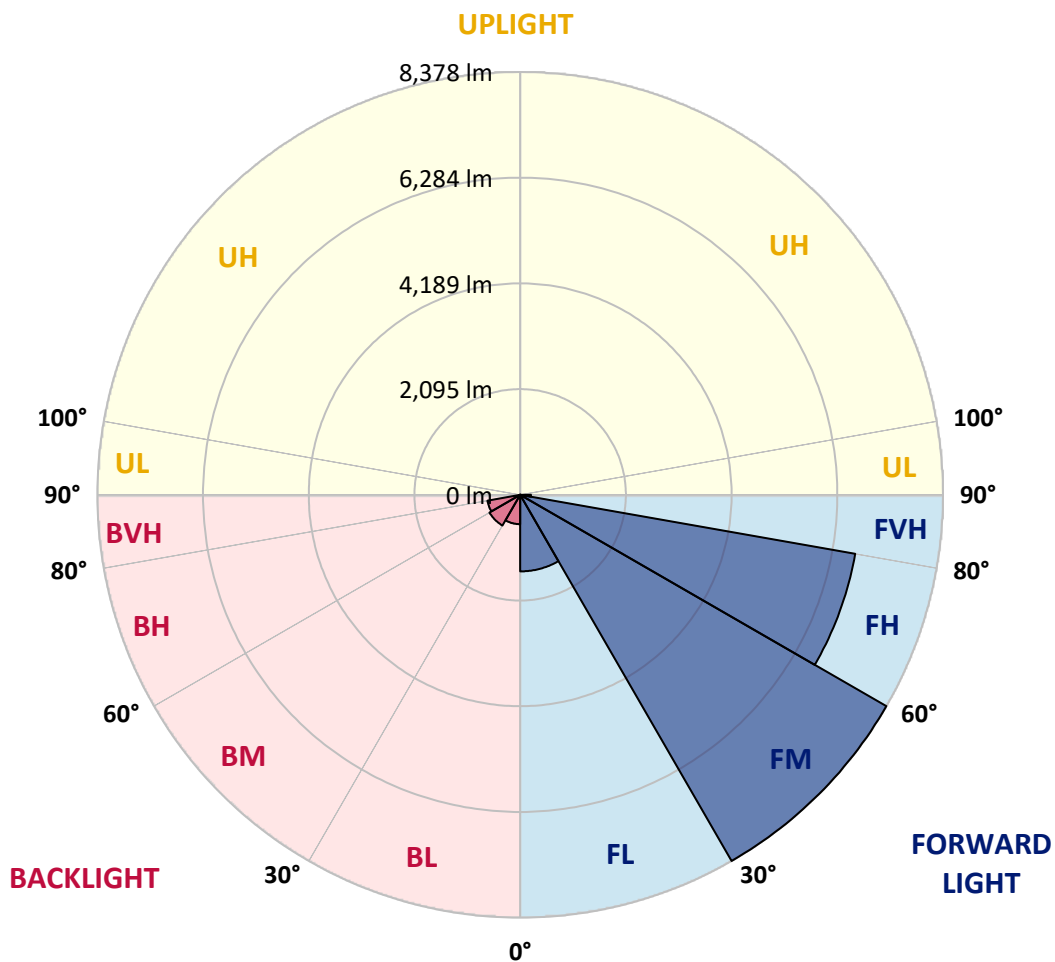
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.0	8.1			
FM (30°-60°)	8378.1	44.6			
FH (60°-80°)	6740.4	35.9			G3/7500
FVH (80°-90°)	214.0	1.1			G2/225
BL (0°-30°)	582.5	3.1	B2/1000		
BM (30°-60°)	701.6	3.7	B1/1000		
BH (60°-80°)	658.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5
2.5°	4286.8	4295.6	4294.5	4301.1	4316.4	4317.5	4302.2	4272.6	4266.0	4227.6	4160.7
5°	3953.5	3978.7	3994.0	4056.5	4126.7	4211.2	4274.8	4297.8	4294.5	4267.1	4166.2
7.5°	3572.9	3598.1	3615.7	3689.2	3782.4	3927.1	4092.7	4228.7	4240.8	4270.4	4161.8
10°	3319.6	3324.0	3348.1	3418.3	3515.9	3663.9	3861.3	4099.3	4135.5	4244.1	4150.8
12.5°	3111.2	3114.5	3146.3	3222.0	3326.2	3475.3	3682.6	3957.8	4013.8	4211.2	4148.7
15°	2963.2	2975.2	3003.7	3082.7	3193.5	3341.5	3554.3	3853.7	3920.6	4199.1	4168.4
17.5°	2913.8	2927.0	2935.8	2992.8	3093.7	3238.4	3456.7	3785.7	3861.3	4205.7	4206.8
20°	2965.4	2975.2	2955.5	2969.7	3032.3	3161.7	3374.4	3727.5	3817.5	4213.4	4256.1
22.5°	3157.3	3161.7	3107.9	3045.4	3034.5	3105.7	3309.7	3681.5	3778.0	4234.2	4314.3
25°	3486.3	3478.6	3390.9	3256.0	3128.8	3095.9	3271.3	3653.0	3758.2	4256.1	4374.6
27.5°	3883.3	3894.2	3773.6	3577.3	3334.9	3161.7	3265.8	3640.9	3749.5	4271.5	4427.2
30°	4365.8	4381.1	4243.0	3996.2	3648.6	3324.0	3316.3	3638.7	3744.0	4261.6	4431.6
32.5°	4858.2	4876.8	4768.3	4513.8	4067.5	3595.9	3430.3	3662.8	3755.0	4227.6	4406.4
35°	5373.6	5399.9	5327.6	5109.3	4635.6	3988.5	3631.0	3736.3	3806.5	4224.3	4381.1
37.5°	6085.4	6109.5	5973.5	5742.1	5323.2	4514.9	3953.5	3874.5	3928.2	4277.0	4387.7
40°	7148.0	7144.7	6793.8	6439.6	6078.8	5183.9	4406.4	4124.5	4151.9	4436.0	4468.9
42.5°	8306.1	8300.6	7781.9	7243.4	6917.7	6007.5	5001.9	4556.6	4538.0	4728.8	4679.4
45°	9198.8	9197.7	8774.4	8167.9	7927.7	6952.8	5771.7	5157.6	5129.1	5204.7	5067.7
47.5°	9579.3	9585.9	9373.1	8946.5	9047.4	8231.5	6742.3	6028.3	5985.6	5954.9	5746.5
50°	9283.2	9296.4	9313.9	9230.6	9868.8	9950.0	8044.0	7255.5	7234.7	7097.6	6771.9
52.5°	8316.0	8382.9	8589.0	8853.3	10154.0	11599.3	10084.9	8779.8	8668.0	8522.1	8163.5
55°	6686.3	6759.8	7151.3	7792.8	9729.5	12682.8	12944.9	10745.1	10558.6	10123.2	9605.6
57.5°	4425.0	4539.1	5107.1	5923.0	8496.9	12857.2	15798.5	13472.4	12823.2	11631.2	11047.7
60°	2437.9	2547.5	3163.9	3903.0	6136.9	11995.2	17717.6	17023.4	15876.3	13316.7	12799.1
62.5°	1501.3	1560.5	2015.7	2703.3	3680.4	9467.4	18114.6	21485.7	20157.7	15487.0	14914.5
65°	1195.4	1220.6	1443.2	2209.8	2638.6	5631.3	16832.6	24887.5	24444.5	18114.6	16808.5
67°	1160.3	1170.1	1275.4	1897.2	2487.2	3452.3	14101.9	25441.4	25891.0	19704.7	16867.7
67.5°	1167.9	1178.9	1278.7	1810.6	2482.8	3172.6	13161.0	25223.1	25791.2	19830.9	16605.6
70°	1126.3	1160.3	1464.0	1809.5	2361.1	2636.4	7881.7	21854.2	22445.3	18426.0	14089.9
72.5°	399.2	401.4	632.8	1464.0	2567.3	2664.9	3957.8	16021.1	16458.6	14095.3	10158.3
75°	236.9	201.8	210.6	416.7	2453.2	2588.1	2283.2	10237.3	10400.7	8076.9	5144.4
77.5°	163.4	142.6	147.0	184.2	934.4	2551.9	1813.9	5338.5	5164.2	2832.7	1095.6
80°	93.2	82.2	87.7	161.2	340.0	2380.8	1710.8	2164.8	1845.7	480.3	302.7
82.5°	49.3	41.7	50.4	132.7	236.9	1483.8	1714.1	1046.2	829.1	162.3	206.2
85°	17.5	14.3	24.1	91.0	157.9	455.1	1589.1	879.5	690.9	79.0	156.8
87.5°	3.3	3.3	9.9	37.3	63.6	139.3	939.8	522.0	349.8	47.2	107.5
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°	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5
2.5°	4133.3	4086.1	4022.5	3944.7	3852.6	3771.4	3711.1	3648.6	3635.4	3613.5	3610.2
5°	4105.9	4024.7	3866.8	3685.9	3492.9	3318.5	3177.0	3050.9	2995.0	2946.7	2941.2
7.5°	4065.3	3943.6	3674.9	3383.2	3081.6	2807.4	2575.0	2410.5	2259.1	2186.7	2175.8
10°	4018.2	3843.8	3458.9	3054.2	2637.5	2250.3	1904.9	1615.4	1439.9	1335.7	1322.6
12.5°	3974.3	3746.2	3238.4	2713.1	2159.3	1641.7	1197.6	921.2	737.0	662.4	653.6
15°	3953.5	3667.2	3032.3	2364.4	1659.2	1045.1	654.7	506.7	446.3	428.8	427.7
17.5°	3951.3	3600.3	2830.5	2003.6	1162.5	607.5	426.6	389.3	377.3	372.9	372.9
20°	3950.2	3536.7	2628.7	1629.6	738.1	404.7	355.3	346.5	337.8	332.3	332.3
22.5°	3962.2	3479.7	2418.1	1248.0	465.0	327.9	312.5	303.8	292.8	285.1	284.0
25°	3974.3	3435.8	2203.2	888.3	336.7	285.1	269.8	257.7	242.4	232.5	231.4
27.5°	3976.5	3381.0	1972.9	594.4	281.8	248.9	229.2	210.6	193.0	183.1	182.0
30°	3943.6	3288.9	1717.4	401.4	248.9	216.0	189.7	170.0	153.5	145.9	145.9
32.5°	3878.9	3174.8	1436.6	302.7	221.5	185.3	156.8	138.2	127.2	123.9	122.8
35°	3820.8	3052.0	1148.2	256.6	198.5	156.8	128.3	116.2	109.7	108.6	107.5
37.5°	3786.8	2953.3	877.3	232.5	176.6	131.6	108.6	99.8	96.5	94.3	95.4
40°	3813.1	2871.0	648.1	212.8	154.6	109.7	92.1	87.7	84.4	83.3	83.3
42.5°	3928.2	2856.8	481.4	195.2	133.8	91.0	80.1	76.8	74.6	73.5	74.6
45°	4230.9	2944.5	374.0	178.8	113.0	76.8	68.0	66.9	65.8	65.8	65.8
47.5°	4686.0	3125.5	311.5	160.1	94.3	65.8	59.2	58.1	57.0	58.1	58.1
50°	5457.0	3456.7	278.6	141.5	77.9	55.9	50.4	50.4	50.4	50.4	51.5
52.5°	6629.3	4108.1	256.6	122.8	63.6	47.2	42.8	42.8	43.9	43.9	45.0
55°	7935.4	4972.2	236.9	104.2	53.7	39.5	35.1	36.2	37.3	38.4	38.4
57.5°	9352.3	5929.6	220.4	85.5	46.1	31.8	29.6	30.7	31.8	34.0	34.0
60°	11062.0	6966.0	196.3	66.9	38.4	25.2	23.0	25.2	28.5	30.7	31.8
62.5°	12939.5	7968.3	165.6	52.6	31.8	19.7	18.6	23.0	27.4	29.6	30.7
65°	14222.6	8283.1	127.2	42.8	24.1	14.3	15.4	20.8	26.3	29.6	29.6
67°	13702.7	7509.9	104.2	36.2	19.7	11.0	14.3	20.8	26.3	28.5	29.6
67.5°	13341.9	7207.2	99.8	35.1	18.6	11.0	14.3	20.8	26.3	29.6	29.6
70°	10855.8	5414.2	83.3	26.3	15.4	9.9	12.1	19.7	25.2	28.5	28.5
72.5°	7542.8	3338.2	74.6	18.6	13.2	8.8	11.0	18.6	24.1	27.4	28.5
75°	3586.1	1208.5	63.6	14.3	12.1	7.7	9.9	18.6	24.1	27.4	27.4
77.5°	731.5	280.7	51.5	12.1	9.9	7.7	8.8	17.5	23.0	26.3	26.3
80°	240.2	108.6	38.4	11.0	9.9	7.7	8.8	16.4	23.0	25.2	26.3
82.5°	173.3	54.8	25.2	11.0	9.9	7.7	7.7	16.4	21.9	25.2	25.2
85°	132.7	38.4	16.4	11.0	9.9	7.7	7.7	15.4	20.8	24.1	24.1
87.5°	87.7	15.4	13.2	11.0	9.9	7.7	7.7	15.4	19.7	23.0	24.1
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)