

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: P299670

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299670
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-SL2-7060-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K 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: 21640 lumens
Efficiency: N/A
Efficacy: 86.9 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 - G4

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

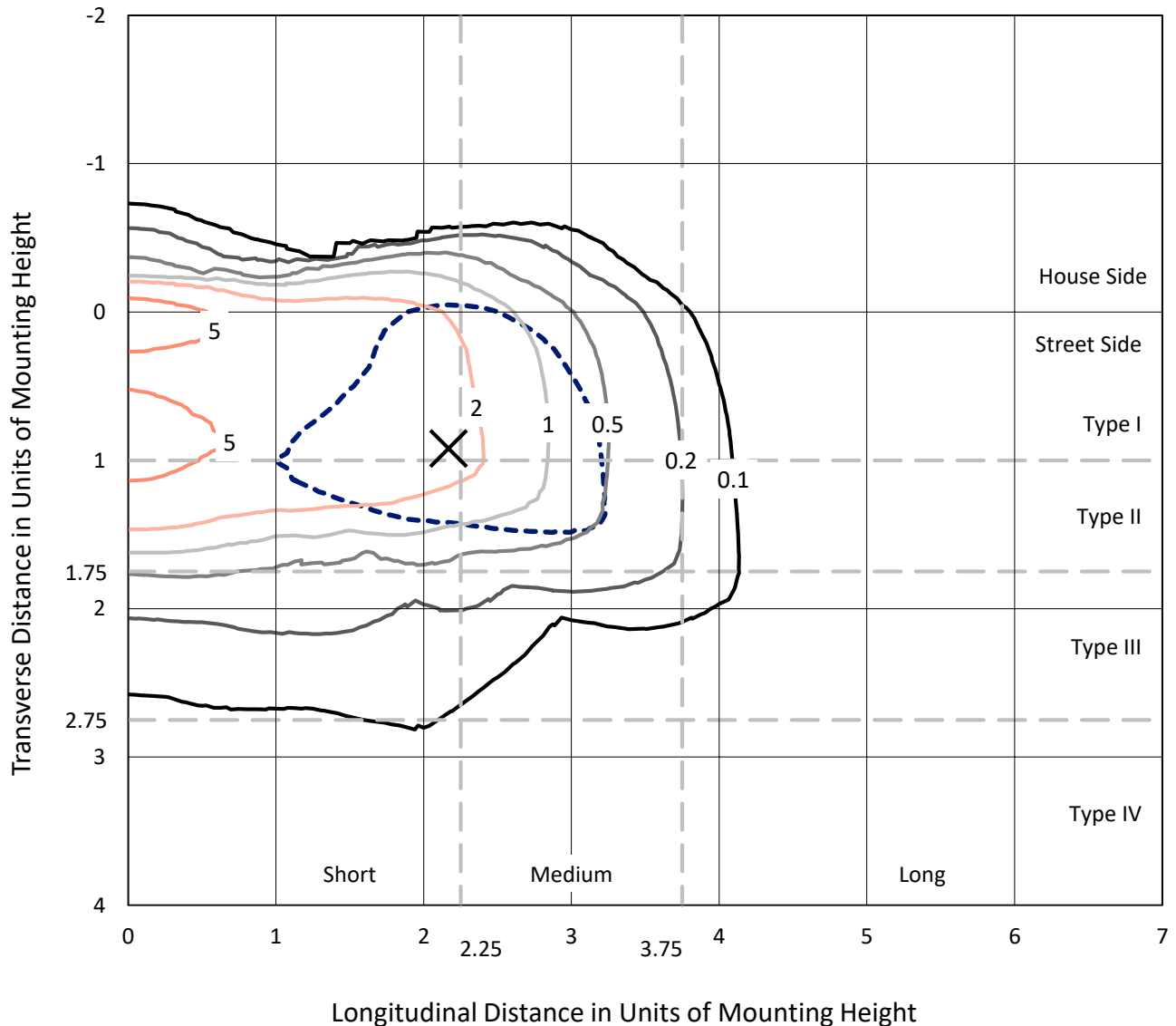


REPORT NUMBER: P299670

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

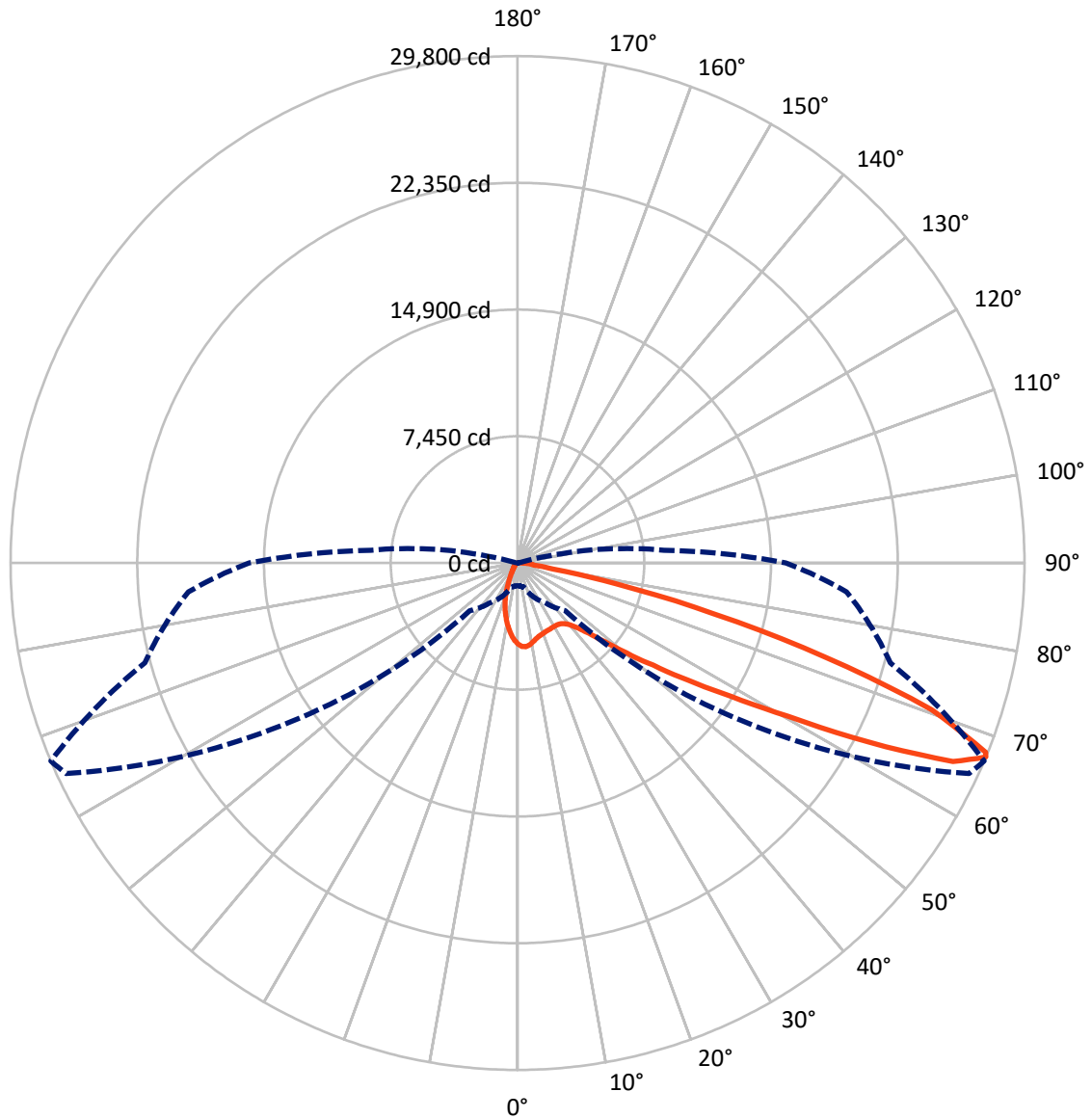


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299670

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299670

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.9	0.0	2246.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19393.1	0.0	19393.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	21640.0	0.0	21640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	1.8
10°-20°	826.5	3.8
20°-30°	1201.7	5.6
30°-40°	1874.6	8.7
40°-50°	3320.8	15.3
50°-60°	5254.9	24.3
60°-70°	6018.7	27.8
70°-80°	2496.5	11.5
80°-90°	257.9	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°	21640.0	100.0
0°-180°	21640.0	100.0



REPORT NUMBER: P299670

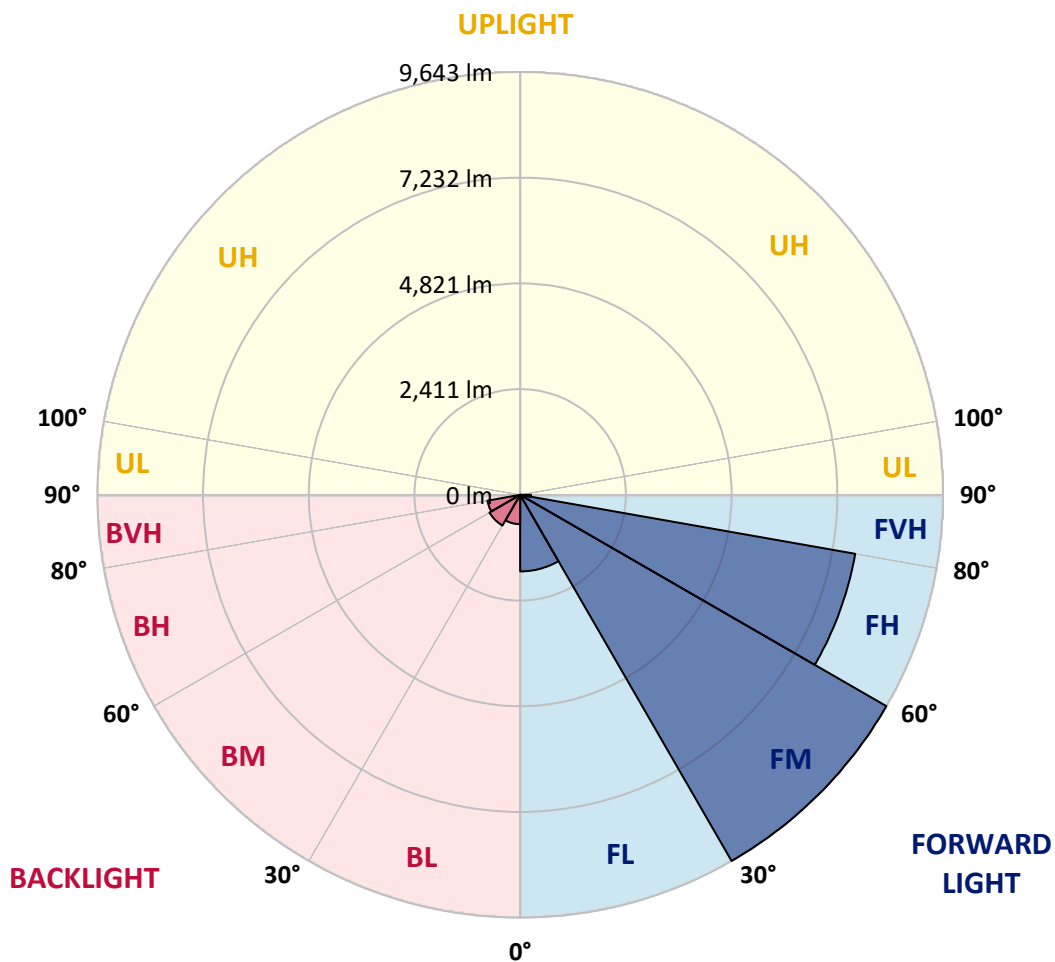
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.0	8.1			
FM (30°-60°)	9642.8	44.6			
FH (60°-80°)	7758.0	35.9			G4/12000
FVH (80°-90°)	246.3	1.1			G3/500
BL (0°-30°)	670.5	3.1	B2/1000		
BM (30°-60°)	807.5	3.7	B1/1000		
BH (60°-80°)	757.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.6	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-G4

Type II Short





REPORT NUMBER: P299670

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4
2.5°	4934.0	4944.1	4942.8	4950.4	4968.1	4969.3	4951.7	4917.6	4910.0	4865.8	4788.8
5°	4550.3	4579.3	4597.0	4668.9	4749.7	4846.9	4920.1	4946.6	4942.8	4911.3	4795.1
7.5°	4112.3	4141.3	4161.5	4246.1	4353.4	4520.0	4710.6	4867.1	4881.0	4915.0	4790.1
10°	3820.7	3825.8	3853.5	3934.3	4046.6	4217.0	4444.2	4718.1	4759.8	4884.8	4777.5
12.5°	3580.9	3584.7	3621.3	3708.4	3828.3	3999.9	4238.5	4555.3	4619.7	4846.9	4774.9
15°	3410.5	3424.4	3457.2	3548.1	3675.6	3846.0	4090.8	4435.4	4512.4	4833.0	4797.7
17.5°	3353.7	3368.8	3378.9	3444.6	3560.7	3727.3	3978.5	4357.2	4444.2	4840.6	4841.8
20°	3413.0	3424.4	3401.7	3418.1	3490.0	3639.0	3883.8	4290.3	4393.8	4849.4	4898.6
22.5°	3633.9	3639.0	3577.1	3505.2	3492.5	3574.6	3809.4	4237.2	4348.3	4873.4	4965.5
25°	4012.6	4003.7	3902.8	3747.5	3601.1	3563.2	3765.2	4204.4	4325.6	4898.6	5035.0
27.5°	4469.5	4482.1	4343.3	4117.3	3838.4	3639.0	3758.9	4190.5	4315.5	4916.3	5095.5
30°	5024.9	5042.5	4883.5	4599.5	4199.4	3825.8	3816.9	4188.0	4309.2	4905.0	5100.6
32.5°	5591.6	5613.1	5488.1	5195.3	4681.5	4138.8	3948.2	4215.8	4321.8	4865.8	5071.6
35°	6184.8	6215.1	6131.8	5880.6	5335.4	4590.7	4179.2	4300.4	4381.1	4862.0	5042.5
37.5°	7004.0	7031.8	6875.3	6608.9	6126.8	5196.5	4550.3	4459.4	4521.2	4922.6	5050.1
40°	8227.1	8223.3	7819.4	7411.7	6996.4	5966.5	5071.6	4747.2	4778.7	5105.6	5143.5
42.5°	9560.0	9553.7	8956.6	8336.9	7962.0	6914.4	5756.9	5244.5	5223.0	5442.7	5385.9
45°	10587.4	10586.2	10098.9	9400.9	9124.5	8002.4	6643.0	5936.2	5903.4	5990.5	5832.7
47.5°	11025.4	11033.0	10788.1	10297.1	10413.2	9474.2	7760.1	6938.4	6889.1	6853.8	6614.0
50°	10684.6	10699.8	10720.0	10624.0	11358.6	11452.0	9258.3	8350.8	8326.8	8169.0	7794.2
52.5°	9571.3	9648.3	9885.6	10189.8	11686.8	13350.4	11607.3	10105.3	9976.5	9808.6	9395.9
55°	7695.7	7780.3	8230.9	8969.3	11198.3	14597.5	14899.1	12367.1	12152.6	11651.5	11055.7
57.5°	5093.0	5224.3	5878.1	6817.2	9779.6	14798.2	18183.4	15506.3	14759.0	13387.0	12715.5
60°	2805.9	2932.1	3641.5	4492.2	7063.3	13806.1	20392.3	19593.3	18273.0	15327.0	14731.3
62.5°	1728.0	1796.1	2319.9	3111.3	4236.0	10896.7	20849.2	24729.2	23200.7	17824.9	17166.1
65°	1375.8	1404.8	1661.1	2543.4	3036.9	6481.5	19373.7	28644.6	28134.7	20849.2	19345.9
67°	1335.4	1346.8	1468.0	2183.6	2862.7	3973.4	16230.8	29282.0	29799.5	22679.4	19414.1
67.5°	1344.3	1356.9	1471.7	2083.9	2857.6	3651.6	15147.8	29030.8	29684.7	22824.6	19112.4
70°	1296.3	1335.4	1685.1	2082.6	2717.5	3034.4	9071.5	25153.3	25833.7	21207.7	16216.9
72.5°	459.4	462.0	728.3	1685.1	2954.8	3067.2	4555.3	18439.6	18943.3	16223.2	11691.9
75°	272.6	232.2	242.3	479.6	2823.6	2978.8	2627.9	11782.7	11970.8	9296.2	5921.0
77.5°	188.1	164.1	169.1	212.1	1075.4	2937.2	2087.7	6144.4	5943.8	3260.3	1260.9
80°	107.3	94.7	101.0	185.5	391.3	2740.3	1969.0	2491.6	2124.3	552.8	348.4
82.5°	56.8	48.0	58.1	152.7	272.6	1707.8	1972.8	1204.1	954.2	186.8	237.3
85°	20.2	16.4	27.8	104.8	181.8	523.8	1828.9	1012.3	795.2	90.9	180.5
87.5°	3.8	3.8	11.4	42.9	73.2	160.3	1081.7	600.8	402.6	54.3	123.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299670

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7060-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4
2.5°	4757.3	4703.0	4629.8	4540.2	4434.1	4340.7	4271.3	4199.4	4184.2	4159.0	4155.2
5°	4725.7	4632.3	4450.6	4242.3	4020.1	3819.4	3656.6	3511.5	3447.1	3391.6	3385.2
7.5°	4679.0	4538.9	4229.7	3893.9	3546.8	3231.3	2963.7	2774.3	2600.2	2516.8	2504.2
10°	4624.7	4424.0	3981.0	3515.3	3035.6	2590.1	2192.5	1859.2	1657.3	1537.4	1522.2
12.5°	4574.3	4311.7	3727.3	3122.7	2485.3	1889.5	1378.3	1060.3	848.2	762.4	752.3
15°	4550.3	4220.8	3490.0	2721.3	1909.7	1202.9	753.5	583.1	513.7	493.5	492.3
17.5°	4547.7	4143.8	3257.8	2306.1	1337.9	699.3	491.0	448.1	434.2	429.2	429.2
20°	4546.5	4070.6	3025.5	1875.6	849.5	465.8	409.0	398.9	388.8	382.4	382.4
22.5°	4560.4	4005.0	2783.2	1436.4	535.2	377.4	359.7	349.6	337.0	328.2	326.9
25°	4574.3	3954.5	2535.8	1022.4	387.5	328.2	310.5	296.6	278.9	267.6	266.3
27.5°	4576.8	3891.4	2270.7	684.1	324.4	286.5	263.8	242.3	222.1	210.8	209.5
30°	4538.9	3785.4	1976.6	462.0	286.5	248.7	218.4	195.6	176.7	167.9	167.9
32.5°	4464.4	3654.1	1653.5	348.4	255.0	213.3	180.5	159.0	146.4	142.6	141.4
35°	4397.5	3512.7	1321.5	295.4	228.5	180.5	147.7	133.8	126.2	125.0	123.7
37.5°	4358.4	3399.1	1009.8	267.6	203.2	151.5	125.0	114.9	111.1	108.6	109.8
40°	4388.7	3304.5	746.0	244.9	178.0	126.2	106.0	101.0	97.2	95.9	95.9
42.5°	4521.2	3288.1	554.1	224.7	154.0	104.8	92.1	88.4	85.8	84.6	85.8
45°	4869.6	3389.0	430.4	205.7	130.0	88.4	78.3	77.0	75.7	75.7	75.7
47.5°	5393.4	3597.3	358.5	184.3	108.6	75.7	68.2	66.9	65.6	66.9	66.9
50°	6280.8	3978.5	320.6	162.8	89.6	64.4	58.1	58.1	58.1	58.1	59.3
52.5°	7630.1	4728.2	295.4	141.4	73.2	54.3	49.2	49.2	50.5	50.5	51.8
55°	9133.4	5722.9	272.6	119.9	61.8	45.4	40.4	41.7	42.9	44.2	44.2
57.5°	10764.1	6824.8	253.7	98.5	53.0	36.6	34.1	35.3	36.6	39.1	39.1
60°	12731.9	8017.6	225.9	77.0	44.2	29.0	26.5	29.0	32.8	35.3	36.6
62.5°	14892.8	9171.2	190.6	60.6	36.6	22.7	21.5	26.5	31.6	34.1	35.3
65°	16369.6	9533.5	146.4	49.2	27.8	16.4	17.7	24.0	30.3	34.1	34.1
67°	15771.3	8643.6	119.9	41.7	22.7	12.6	16.4	24.0	30.3	32.8	34.1
67.5°	15356.1	8295.2	114.9	40.4	21.5	12.6	16.4	24.0	30.3	34.1	34.1
70°	12494.6	6231.5	95.9	30.3	17.7	11.4	13.9	22.7	29.0	32.8	32.8
72.5°	8681.5	3842.2	85.8	21.5	15.1	10.1	12.6	21.5	27.8	31.6	32.8
75°	4127.4	1391.0	73.2	16.4	13.9	8.8	11.4	21.5	27.8	31.6	31.6
77.5°	841.9	323.1	59.3	13.9	11.4	8.8	10.1	20.2	26.5	30.3	30.3
80°	276.4	125.0	44.2	12.6	11.4	8.8	10.1	18.9	26.5	29.0	30.3
82.5°	199.4	63.1	29.0	12.6	11.4	8.8	8.8	18.9	25.2	29.0	29.0
85°	152.7	44.2	18.9	12.6	11.4	8.8	8.8	17.7	24.0	27.8	27.8
87.5°	101.0	17.7	15.1	12.6	11.4	8.8	8.8	17.7	22.7	26.5	27.8
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)