

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: P299690

Luminaire Tested: **GLNA-AF-10-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299690
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-10-LED-E1-SL2-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K 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: 34640.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

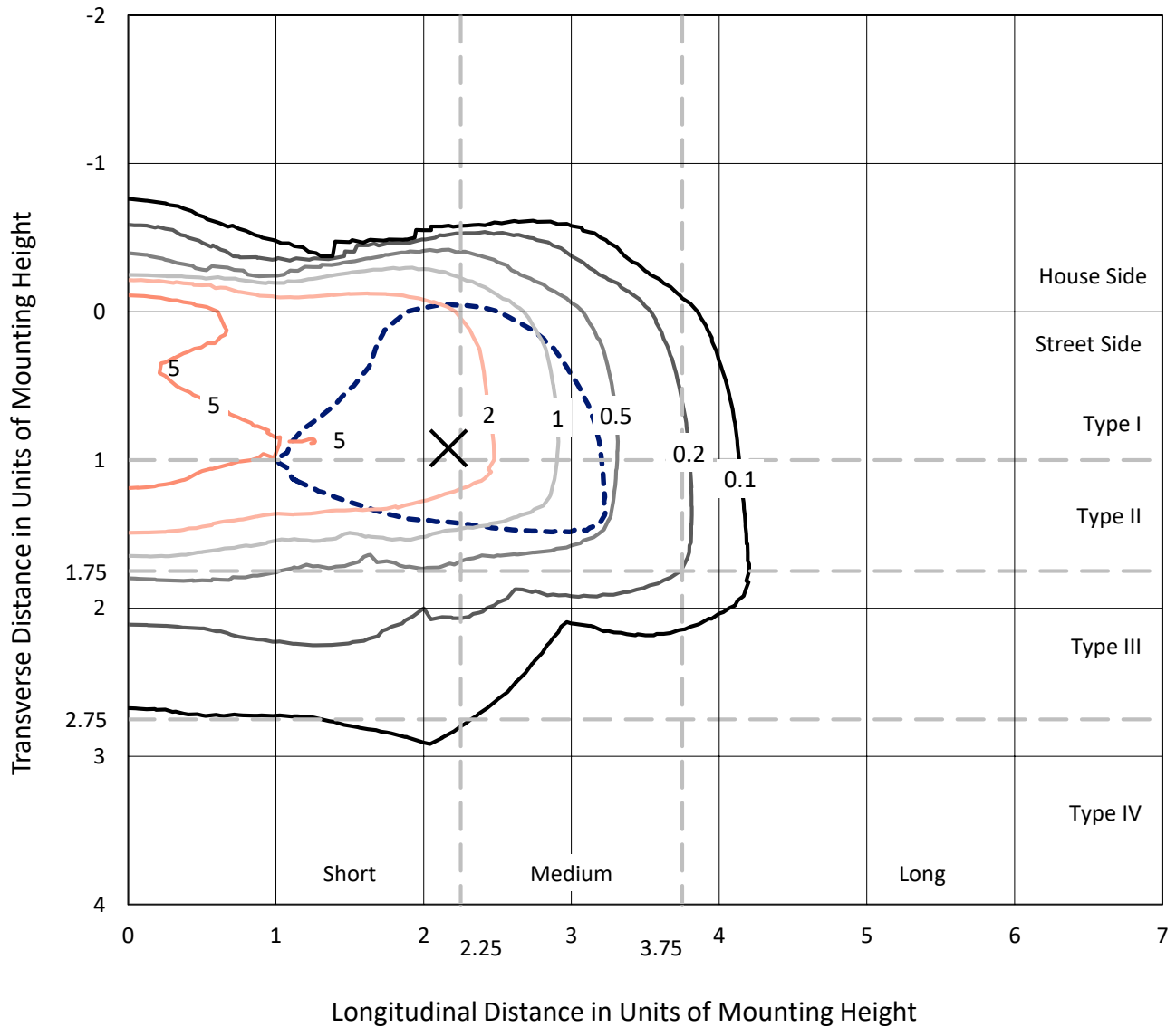


REPORT NUMBER: P299690

CATALOG NUMBER: GLNA-AF-10-LED-E1-SL2-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

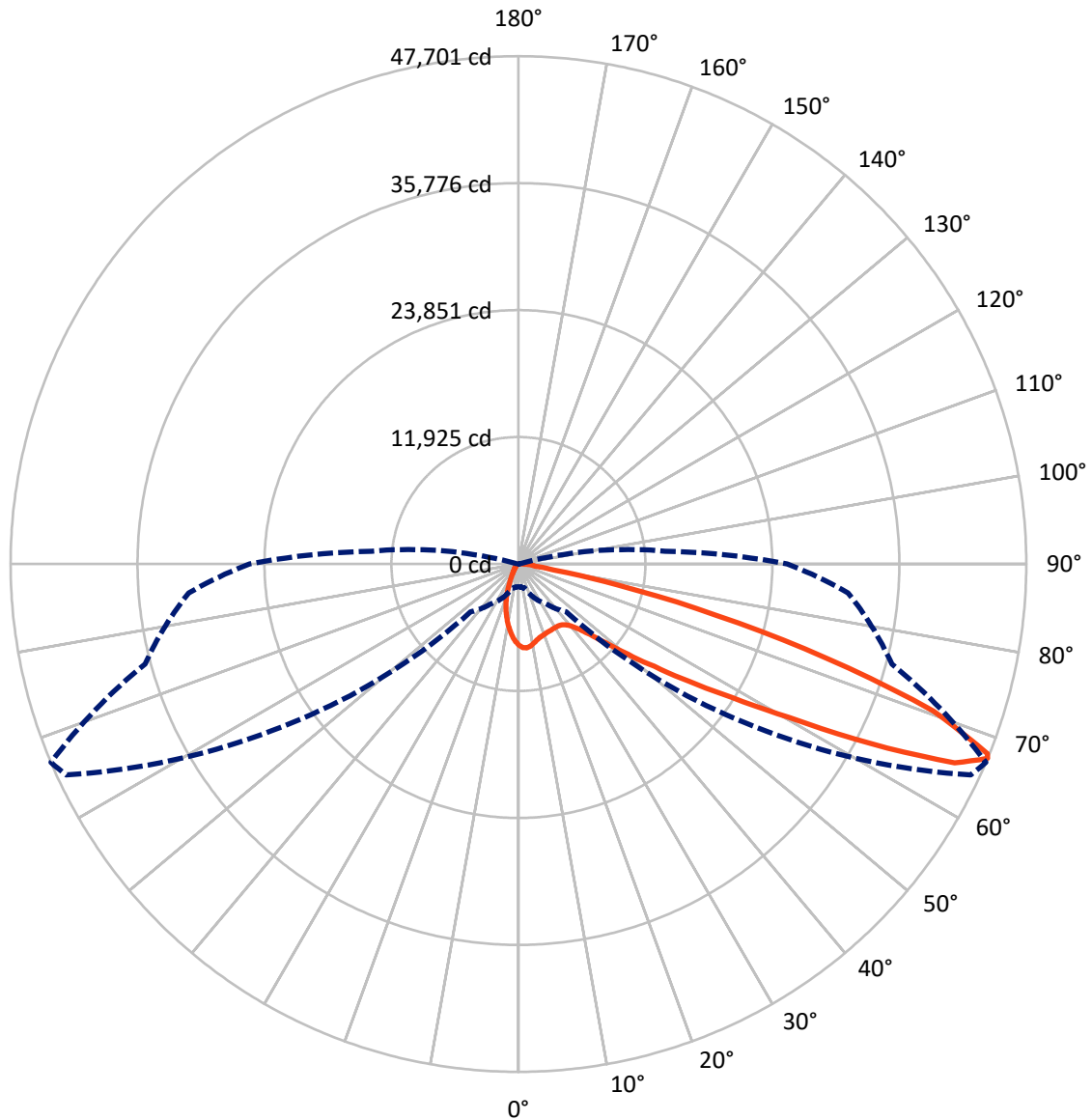


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299690

CATALOG NUMBER: GLNA-AF-10-LED-E1-SL2-7030-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299690

CATALOG NUMBER: GLNA-AF-10-LED-E1-SL2-7030-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3596.7	0.0	3596.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31043.4	0.0	31043.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	34640.1	0.0	34640.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.6	1.8
10°-20°	1323.0	3.8
20°-30°	1923.6	5.6
30°-40°	3000.8	8.7
40°-50°	5315.8	15.3
50°-60°	8411.7	24.3
60°-70°	9634.5	27.8
70°-80°	3996.3	11.5
80°-90°	412.8	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°	34640.1	100.0
0°-180°	34640.1	100.0



REPORT NUMBER: P299690

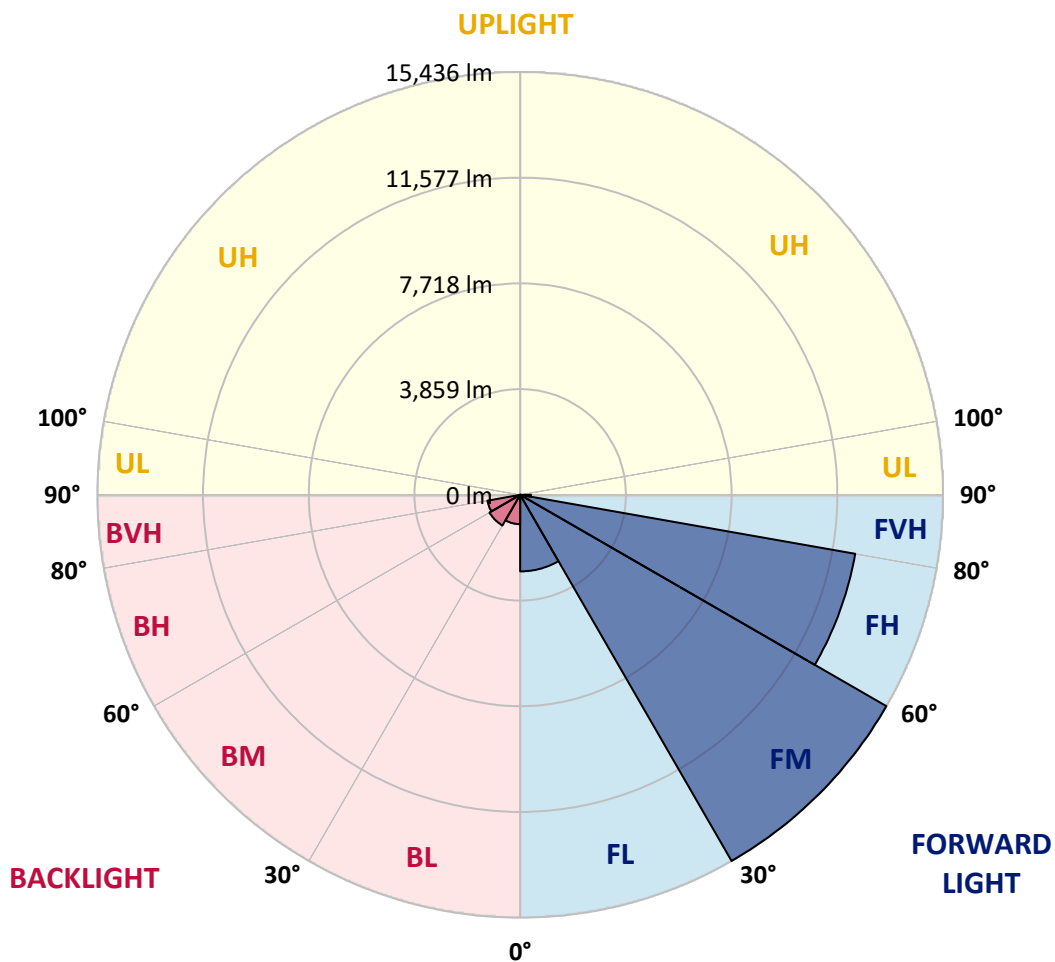
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2794.9	8.1			
FM (30°-60°)	15435.7	44.6			
FH (60°-80°)	12418.6	35.9			G5
FVH (80°-90°)	394.2	1.1			G3/500
BL (0°-30°)	1073.3	3.1	B3/2500		
BM (30°-60°)	1292.6	3.7	B2/2500		
BH (60°-80°)	1212.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P299690

CATALOG NUMBER: GLNA-AF-10-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4
2.5°	7898.0	7914.2	7912.2	7924.3	7952.6	7954.6	7926.3	7871.8	7859.7	7788.9	7665.7
5°	7283.8	7330.3	7358.6	7473.7	7603.1	7758.6	7875.8	7918.2	7912.2	7861.7	7675.8
7.5°	6582.7	6629.2	6661.5	6796.9	6968.6	7235.3	7540.4	7791.0	7813.2	7867.7	7667.7
10°	6116.0	6124.1	6168.5	6297.8	6477.6	6750.4	7114.1	7552.5	7619.2	7819.2	7647.5
12.5°	5732.1	5738.2	5796.7	5936.2	6128.1	6402.9	6784.8	7291.9	7394.9	7758.6	7643.5
15°	5459.3	5481.6	5534.1	5679.6	5883.6	6156.4	6548.4	7100.0	7223.2	7736.4	7679.8
17.5°	5368.4	5392.7	5408.8	5513.9	5699.8	5966.5	6368.5	6974.7	7114.1	7748.5	7750.5
20°	5463.4	5481.6	5445.2	5471.4	5586.6	5825.0	6217.0	6867.6	7033.3	7762.7	7841.5
22.5°	5817.0	5825.0	5726.0	5610.9	5590.7	5722.0	6097.8	6782.7	6960.5	7801.1	7948.6
25°	6423.1	6409.0	6247.3	5998.8	5764.4	5703.8	6027.1	6730.2	6924.2	7841.5	8059.7
27.5°	7154.5	7174.7	6952.5	6590.8	6144.3	5825.0	6017.0	6708.0	6908.0	7869.8	8156.7
30°	8043.5	8071.8	7817.2	7362.6	6722.1	6124.1	6109.9	6703.9	6897.9	7851.6	8164.7
32.5°	8950.7	8985.1	8785.0	8316.3	7493.9	6625.1	6320.0	6748.4	6918.1	7788.9	8118.3
35°	9900.3	9948.8	9815.5	9413.4	8540.6	7348.5	6689.8	6883.8	7013.1	7782.9	8071.8
37.5°	11211.6	11256.1	11005.5	10579.2	9807.4	8318.3	7283.8	7138.3	7237.3	7879.9	8083.9
40°	13169.5	13163.4	12516.8	11864.2	11199.5	9550.8	8118.3	7599.0	7649.5	8172.8	8233.4
42.5°	15303.1	15293.0	14337.3	13345.2	12745.2	11068.2	9215.4	8395.1	8360.7	8712.3	8621.4
45°	16947.8	16945.7	16165.8	15048.5	14606.0	12809.8	10633.8	9502.3	9449.8	9589.2	9336.6
47.5°	17648.9	17661.0	17269.0	16483.0	16668.9	15165.7	12421.9	11106.6	11027.8	10971.2	10587.3
50°	17103.3	17127.6	17159.9	17006.3	18182.3	18331.8	14820.2	13367.5	13329.1	13076.5	12476.4
52.5°	15321.3	15444.5	15824.4	16311.3	18707.6	21370.6	18580.3	16175.9	15969.8	15701.1	15040.4
55°	12318.8	12454.2	13175.5	14357.5	17925.7	23366.8	23849.7	19796.6	19453.1	18651.0	17697.4
57.5°	8152.6	8362.8	9409.4	10912.6	15654.6	23688.1	29107.0	24821.5	23625.4	21429.2	20354.3
60°	4491.5	4693.6	5829.1	7190.9	11306.6	22100.0	32642.8	31363.9	29250.4	24534.6	23581.0
62.5°	2766.0	2875.1	3713.6	4980.5	6780.7	17442.8	33374.2	39585.2	37138.4	28533.2	27478.5
65°	2202.3	2248.8	2658.9	4071.3	4861.3	10375.1	31012.3	45852.7	45036.4	33374.2	30967.8
67°	2137.7	2155.8	2349.8	3495.4	4582.4	6360.5	25981.3	46873.0	47701.4	36303.9	31076.9
67.5°	2151.8	2172.0	2355.9	3335.8	4574.4	5845.2	24247.7	46471.0	47517.6	36536.3	30594.1
70°	2075.0	2137.7	2697.3	3333.8	4350.1	4857.2	14521.2	40264.0	41353.1	33948.0	25959.1
72.5°	735.5	739.5	1165.8	2697.3	4729.9	4909.8	7291.9	29517.1	30323.3	25969.2	18715.7
75°	436.4	371.8	387.9	767.8	4519.8	4768.3	4206.6	18861.1	19162.2	14880.8	9478.1
77.5°	301.1	262.7	270.7	339.4	1721.4	4701.6	3341.9	9835.7	9514.4	5218.9	2018.5
80°	171.7	151.5	161.6	297.0	626.3	4386.5	3151.9	3988.4	3400.5	885.0	557.7
82.5°	90.9	76.8	92.9	244.5	436.4	2733.7	3158.0	1927.5	1527.5	299.0	379.8
85°	32.3	26.3	44.5	167.7	290.9	838.5	2927.7	1620.4	1272.9	145.5	288.9
87.5°	6.1	6.1	18.2	68.7	117.2	256.6	1731.5	961.7	644.5	86.9	198.0
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: P299690

CATALOG NUMBER: GLNA-AF-10-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4	7639.4
2.5°	7615.2	7528.3	7411.1	7267.7	7097.9	6948.4	6837.3	6722.1	6697.9	6657.5	6651.4
5°	7564.7	7415.1	7124.2	6790.8	6435.2	6114.0	5853.3	5621.0	5517.9	5429.0	5418.9
7.5°	7489.9	7265.6	6770.6	6233.2	5677.5	5172.4	4744.1	4441.0	4162.2	4028.8	4008.6
10°	7403.0	7081.8	6372.6	5627.0	4859.2	4146.0	3509.6	2976.2	2652.9	2460.9	2436.7
12.5°	7322.2	6901.9	5966.5	4998.7	3978.3	3024.7	2206.4	1697.2	1357.8	1220.4	1204.2
15°	7283.8	6756.5	5586.6	4356.1	3057.0	1925.5	1206.2	933.5	822.3	790.0	788.0
17.5°	7279.8	6633.2	5214.8	3691.4	2141.7	1119.3	786.0	717.3	695.0	687.0	687.0
20°	7277.8	6516.0	4843.1	3002.4	1359.8	745.6	654.6	638.5	622.3	612.2	612.2
22.5°	7300.0	6411.0	4455.1	2299.3	856.7	604.1	575.8	559.7	539.5	525.3	523.3
25°	7322.2	6330.2	4059.1	1636.6	620.3	525.3	497.0	474.8	446.5	428.3	426.3
27.5°	7326.2	6229.1	3634.8	1095.1	519.3	458.6	422.3	387.9	355.6	337.4	335.4
30°	7265.6	6059.4	3164.1	739.5	458.6	398.0	349.5	313.2	282.9	268.7	268.7
32.5°	7146.4	5849.3	2646.8	557.7	408.1	341.5	288.9	254.6	234.4	228.3	226.3
35°	7039.3	5623.0	2115.4	472.8	365.7	288.9	236.4	214.2	202.0	200.0	198.0
37.5°	6976.7	5441.1	1616.4	428.3	325.3	242.5	200.0	183.9	177.8	173.8	175.8
40°	7025.2	5289.6	1194.1	392.0	284.9	202.0	169.7	161.6	155.6	153.6	153.6
42.5°	7237.3	5263.3	887.0	359.6	246.5	167.7	147.5	141.4	137.4	135.4	137.4
45°	7795.0	5425.0	689.0	329.3	208.1	141.4	125.3	123.2	121.2	121.2	121.2
47.5°	8633.5	5758.4	573.8	295.0	173.8	121.2	109.1	107.1	105.1	107.1	107.1
50°	10053.9	6368.5	513.2	260.6	143.5	103.0	92.9	92.9	92.9	92.9	95.0
52.5°	12213.8	7568.7	472.8	226.3	117.2	86.9	78.8	78.8	80.8	80.8	82.8
55°	14620.2	9160.8	436.4	191.9	99.0	72.7	64.7	66.7	68.7	70.7	70.7
57.5°	17230.6	10924.7	406.1	157.6	84.9	58.6	54.6	56.6	58.6	62.6	62.6
60°	20380.5	12834.1	361.7	123.2	70.7	46.5	42.4	46.5	52.5	56.6	58.6
62.5°	23839.6	14680.8	305.1	97.0	58.6	36.4	34.3	42.4	50.5	54.6	56.6
65°	26203.6	15260.7	234.4	78.8	44.5	26.3	28.3	38.4	48.5	54.6	54.6
67°	25245.8	13836.2	191.9	66.7	36.4	20.2	26.3	38.4	48.5	52.5	54.6
67.5°	24581.1	13278.6	183.9	64.7	34.3	20.2	26.3	38.4	48.5	54.6	54.6
70°	20000.7	9975.1	153.6	48.5	28.3	18.2	22.2	36.4	46.5	52.5	52.5
72.5°	13896.8	6150.3	137.4	34.3	24.2	16.2	20.2	34.3	44.5	50.5	52.5
75°	6607.0	2226.6	117.2	26.3	22.2	14.1	18.2	34.3	44.5	50.5	50.5
77.5°	1347.7	517.2	95.0	22.2	18.2	14.1	16.2	32.3	42.4	48.5	48.5
80°	442.5	200.0	70.7	20.2	18.2	14.1	16.2	30.3	42.4	46.5	48.5
82.5°	319.2	101.0	46.5	20.2	18.2	14.1	14.1	30.3	40.4	46.5	46.5
85°	244.5	70.7	30.3	20.2	18.2	14.1	14.1	28.3	38.4	44.5	44.5
87.5°	161.6	28.3	24.2	20.2	18.2	14.1	14.1	28.3	36.4	42.4	44.5
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)