

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: P299846

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34320.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

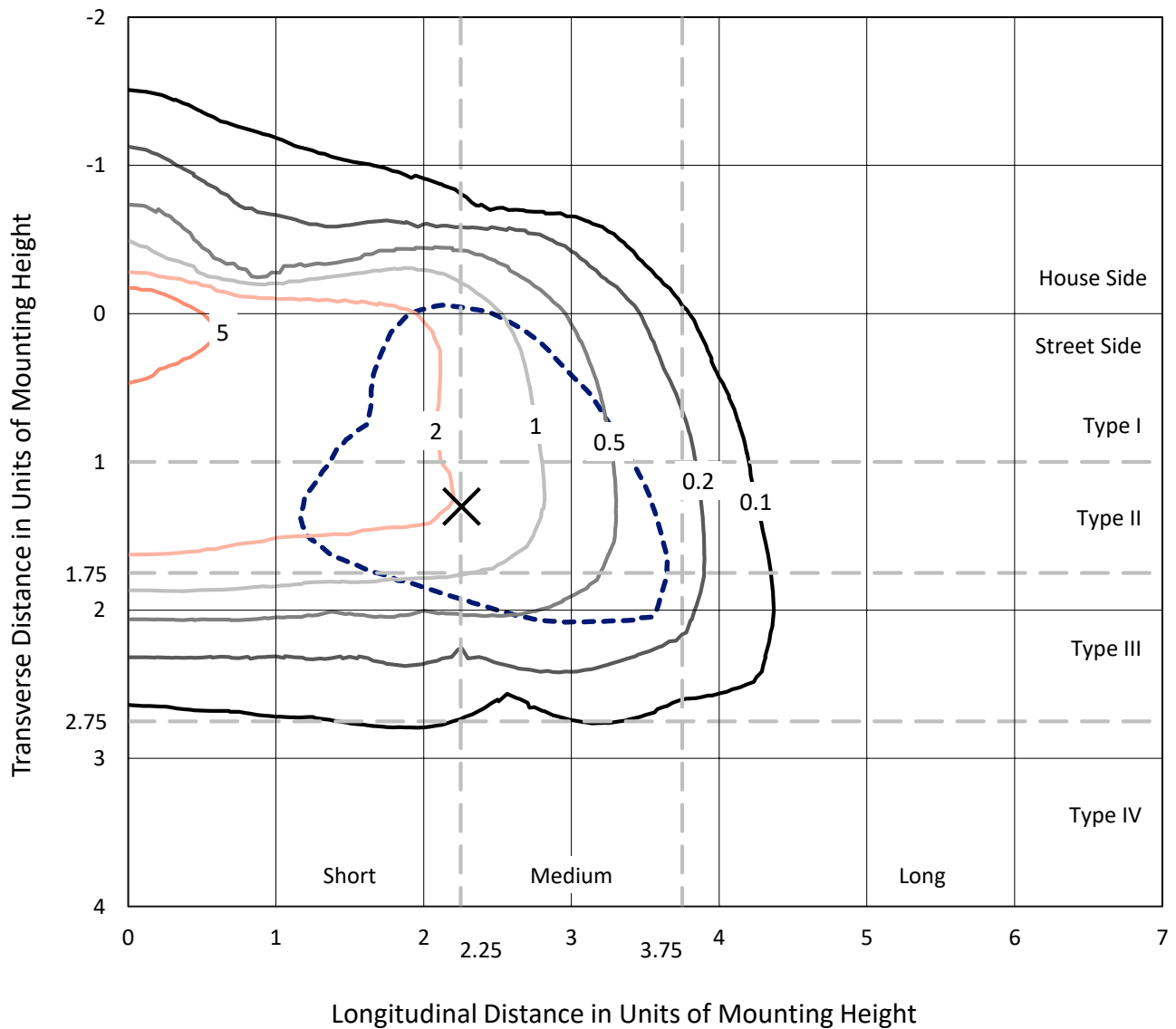
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

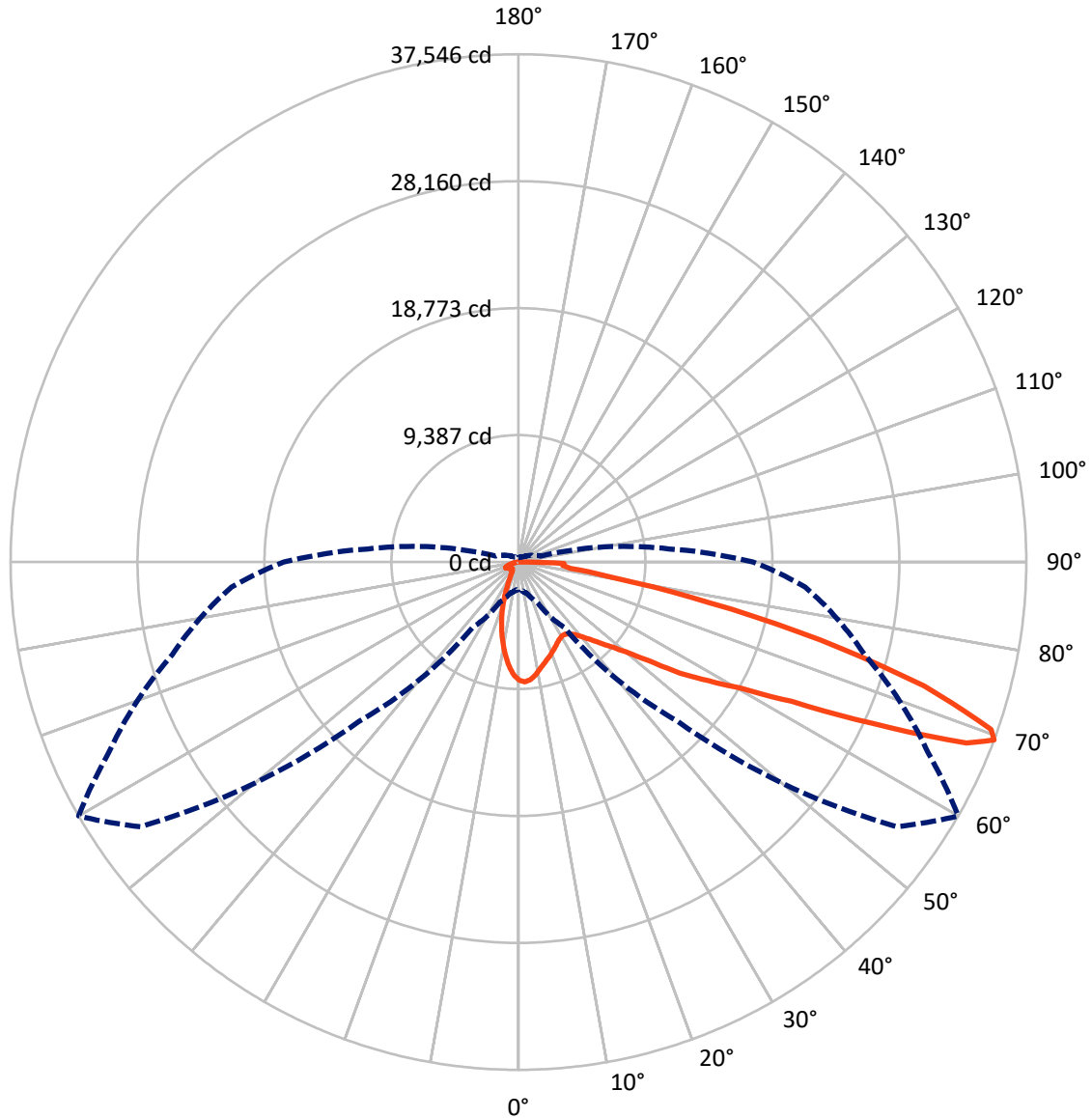
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4882.7	0.0	4882.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29437.8	0.0	29437.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	34320.5	0.0	34320.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.5	2.2
10°-20°	1575.5	4.6
20°-30°	2007.4	5.8
30°-40°	2759.7	8.0
40°-50°	4477.8	13.0
50°-60°	7181.3	20.9
60°-70°	9557.8	27.8
70°-80°	5160.5	15.0
80°-90°	861.1	2.5
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°	34320.5	100.0
0°-180°	34320.5	100.0

Coefficient of Utilization



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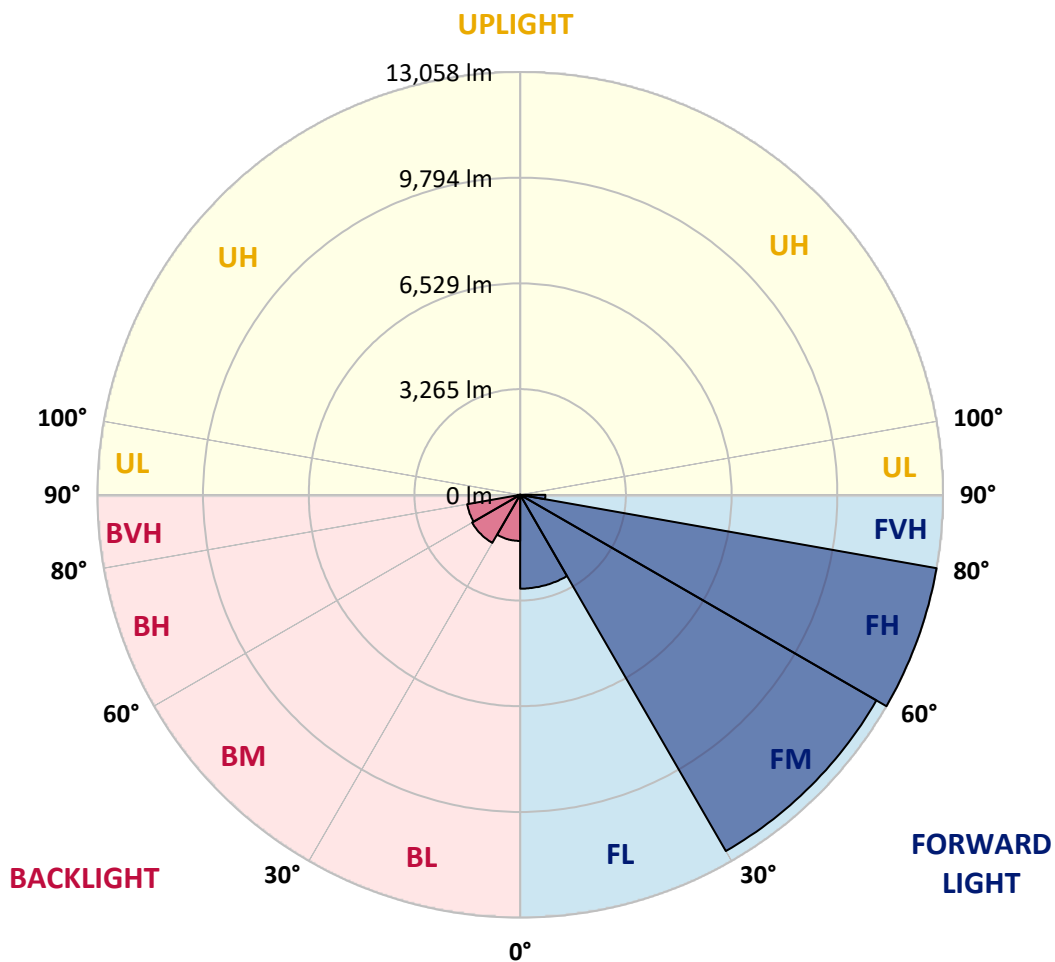
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2897.9	8.4			
FM	(30°-60°)	12703.4	37.0			
FH	(60°-80°)	13058.3	38.0			G5
FVH	(80°-90°)	778.1	2.3			G5
BL	(0°-30°)	1424.4	4.2	B3/2500		
BM	(30°-60°)	1715.4	5.0	B2/2500		
BH	(60°-80°)	1660.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	82.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4
2.5°	8924.4	8944.3	8936.0	8931.1	8946.0	8922.8	8874.7	8859.8	8836.6	8781.9	8689.0
5°	8589.5	8649.2	8645.9	8690.7	8765.3	8785.2	8763.6	8766.9	8723.8	8655.9	8501.7
7.5°	8010.9	8035.8	8049.1	8146.9	8282.8	8392.3	8485.1	8514.9	8495.0	8437.0	8238.1
10°	7414.1	7434.0	7465.5	7579.9	7752.3	7903.2	8078.9	8180.0	8223.1	8213.2	7991.0
12.5°	6901.8	6921.7	6963.1	7092.5	7298.0	7483.7	7739.0	7865.0	7967.8	8029.2	7790.4
15°	6442.6	6485.7	6525.5	6674.7	6905.1	7148.8	7437.3	7596.5	7755.6	7893.2	7613.0
17.5°	6084.5	6127.6	6150.8	6286.7	6532.1	6830.5	7168.7	7356.1	7555.0	7780.5	7437.3
20°	5877.2	5897.1	5887.2	5963.4	6183.9	6500.6	6901.8	7119.0	7359.4	7674.4	7261.6
22.5°	5819.2	5820.9	5784.4	5776.1	5918.7	6185.6	6616.6	6880.3	7175.4	7604.8	7110.7
25°	5960.1	5955.1	5855.7	5774.4	5789.4	5945.2	6341.4	6648.1	7021.2	7589.8	6994.6
27.5°	6273.5	6288.4	6140.8	5988.3	5837.4	5832.5	6132.5	6455.8	6895.2	7657.8	6944.9
30°	6712.8	6737.7	6580.2	6386.2	6102.7	5868.9	6051.3	6341.4	6817.3	7798.7	6936.6
32.5°	7193.6	7220.1	7100.8	6896.8	6525.5	6094.4	6107.7	6351.4	6813.9	7996.0	6993.0
35°	7705.9	7735.7	7674.4	7502.0	7089.1	6510.5	6323.2	6512.2	6921.7	8297.8	7143.9
37.5°	8277.9	8324.3	8340.9	8176.7	7735.7	7059.3	6676.3	6817.3	7165.4	8717.2	7420.7
40°	9101.8	9166.5	9161.5	8926.1	8476.8	7800.4	7221.8	7258.3	7545.1	9277.6	7863.4
42.5°	10680.1	10693.4	10280.6	9768.3	9292.5	8579.6	7865.0	7835.2	8069.0	9987.1	8514.9
45°	12687.8	12633.1	11714.7	10724.9	10144.6	9474.9	8702.3	8556.4	8733.8	10852.6	9330.6
47.5°	14354.0	14228.0	13067.5	11701.4	11046.5	10448.0	9685.4	9430.1	9527.9	11834.0	10385.0
50°	14932.6	14838.1	13876.6	12513.8	11900.4	11635.1	10895.7	10534.2	10560.8	13004.5	11620.2
52.5°	14808.3	14795.0	14153.4	13049.3	12699.5	12881.8	12609.9	12120.9	11862.2	14304.3	12953.1
55°	14514.8	14543.0	14310.9	13672.6	13613.0	14085.5	14849.7	14488.3	13684.2	15615.7	14330.8
57.5°	13495.2	13568.2	14078.8	14456.8	15083.5	15786.5	16653.5	16550.7	15645.5	17033.2	15968.8
60°	10872.5	11041.6	12411.0	14304.3	16597.2	18795.5	19183.5	18944.7	17668.2	18792.2	18132.4
62.5°	7618.0	7793.8	9421.8	12384.5	16348.5	22194.2	23706.2	22676.7	20572.8	21383.5	20932.5
65°	4078.4	4163.0	5406.4	8592.9	13802.0	22895.5	30316.2	28749.5	25171.8	24578.3	23328.2
67.5°	2249.8	2296.2	2772.0	4338.7	8839.9	20161.6	34527.3	35711.0	30919.7	26705.3	22892.2
69°	2034.2	2077.3	2389.0	3285.9	5915.4	16670.1	34116.1	37546.3	33439.7	26494.8	21280.7
70°	1989.5	2029.3	2309.4	3029.0	4788.0	13740.6	32738.4	37077.1	34039.8	25740.4	19874.8
72.5°	1790.5	1833.6	2105.5	2720.6	4091.7	6850.4	25932.8	31349.1	30904.8	22318.5	15075.2
75°	1669.5	1709.3	2170.2	2664.2	3917.6	4335.4	17096.2	23104.4	22718.1	15612.4	8128.6
77.5°	714.6	711.2	1006.3	2254.7	3975.6	4197.8	9186.4	14433.6	13168.6	6673.0	2334.3
80°	477.5	469.2	477.5	663.2	3645.7	4221.0	4812.9	7326.2	5534.0	1701.0	1150.6
82.5°	411.2	404.5	419.4	404.5	1281.6	4817.8	4091.7	3896.0	2631.1	966.6	570.3
85°	276.9	265.3	361.4	363.1	605.1	4280.7	4608.9	3290.9	2128.7	573.6	281.8
87.5°	132.6	129.3	210.6	257.0	354.8	1739.1	5171.0	3372.2	2147.0	293.4	134.3
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°	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4	8745.4
2.5°	8660.8	8592.9	8526.5	8447.0	8364.1	8271.2	8224.8	8178.4	8166.8	8153.5	8107.1
5°	8422.1	8325.9	8160.1	7977.8	7785.5	7598.1	7455.5	7366.0	7298.0	7263.2	7201.9
7.5°	8113.7	7972.8	7682.7	7367.7	7044.4	6749.3	6494.0	6333.1	6180.6	6109.3	6028.1
10°	7820.3	7609.7	7158.8	6694.6	6230.4	5784.4	5364.9	5068.2	4804.6	4657.0	4552.6
12.5°	7568.3	7279.8	6654.8	6026.4	5389.8	4754.8	4126.5	3632.4	3219.6	3002.4	2891.4
15°	7322.9	6974.8	6175.6	5378.2	4560.9	3697.1	2871.5	2311.1	1969.6	1833.6	1787.2
17.5°	7100.8	6654.8	5694.9	4725.0	3705.4	2660.9	1929.8	1621.4	1490.4	1445.7	1430.8
20°	6860.4	6331.5	5195.8	4041.9	2813.4	1860.2	1507.0	1371.1	1318.0	1304.8	1298.1
22.5°	6628.3	6013.2	4718.4	3310.8	2021.0	1435.7	1294.8	1238.4	1230.2	1241.8	1241.8
25°	6431.0	5728.0	4202.8	2546.5	1483.8	1208.6	1158.9	1145.6	1177.1	1220.2	1228.5
27.5°	6283.4	5494.3	3654.0	1880.0	1182.1	1051.1	1049.4	1071.0	1148.9	1231.8	1248.4
30°	6182.3	5272.1	3067.1	1356.2	991.4	925.1	951.6	998.1	1112.4	1230.2	1261.7
32.5°	6130.9	5108.0	2455.3	1049.4	848.8	812.4	857.1	913.5	1026.2	1135.7	1177.1
35°	6170.7	4986.9	1878.4	875.4	749.4	721.2	767.6	822.3	888.6	935.1	966.6
37.5°	6319.9	4938.9	1417.5	784.2	681.4	654.9	691.3	722.8	749.4	762.6	777.6
40°	6641.5	4990.3	1135.7	737.8	643.3	610.1	625.0	636.6	653.2	666.5	673.1
42.5°	7115.7	5144.4	1017.9	719.5	623.4	575.3	572.0	576.9	598.5	623.4	628.3
45°	7778.8	5416.3	1009.7	731.1	613.4	547.1	532.2	538.8	572.0	610.1	616.7
47.5°	8626.0	5830.8	1076.0	765.9	621.7	532.2	507.3	515.6	557.1	608.4	616.7
50°	9652.2	6409.4	1187.1	817.3	658.2	535.5	499.0	504.0	547.1	603.5	611.8
52.5°	10864.2	7230.1	1308.1	867.1	696.3	557.1	505.7	494.1	533.8	583.6	593.5
55°	12212.0	8282.8	1432.4	911.8	716.2	583.6	518.9	480.8	509.0	550.4	558.7
57.5°	13866.6	9755.0	1647.9	954.9	729.5	601.8	532.2	467.5	477.5	507.3	513.9
60°	16106.4	11837.4	2027.6	1026.2	759.3	608.4	530.5	455.9	446.0	462.6	465.9
62.5°	18790.6	14098.7	2344.3	1115.8	809.1	613.4	520.6	447.6	419.4	419.4	422.8
65°	20383.8	14703.8	2168.5	1190.4	850.5	608.4	509.0	439.3	399.6	381.3	383.0
67.5°	19032.6	12931.6	1858.5	1205.3	848.8	585.2	490.7	424.4	379.7	351.5	349.8
69°	17339.9	11157.6	1719.2	1165.5	809.1	555.4	467.5	407.8	364.7	334.9	333.2
70°	15975.5	10075.0	1628.1	1122.4	765.9	533.8	449.3	392.9	353.1	324.9	321.6
72.5°	11615.2	6601.7	1391.0	964.9	631.7	447.6	387.9	344.8	315.0	298.4	295.1
75°	5804.3	3148.3	1129.0	782.5	484.1	358.1	318.3	288.5	273.6	270.2	268.6
77.5°	1906.6	1442.4	807.4	583.6	359.8	280.2	257.0	235.4	232.1	242.1	238.7
80°	1047.8	838.9	512.3	386.3	245.4	205.6	202.3	190.7	195.6	212.2	208.9
82.5°	533.8	436.0	316.7	232.1	165.8	147.6	160.8	154.2	160.8	175.7	174.1
85°	263.6	238.7	200.6	140.9	109.4	94.5	114.4	119.4	122.7	134.3	134.3
87.5°	152.5	140.9	106.1	66.3	54.7	49.7	66.3	64.7	76.3	82.9	81.2
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)