

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: P299912

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299912
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-07-LED-E1-SL3-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32790.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

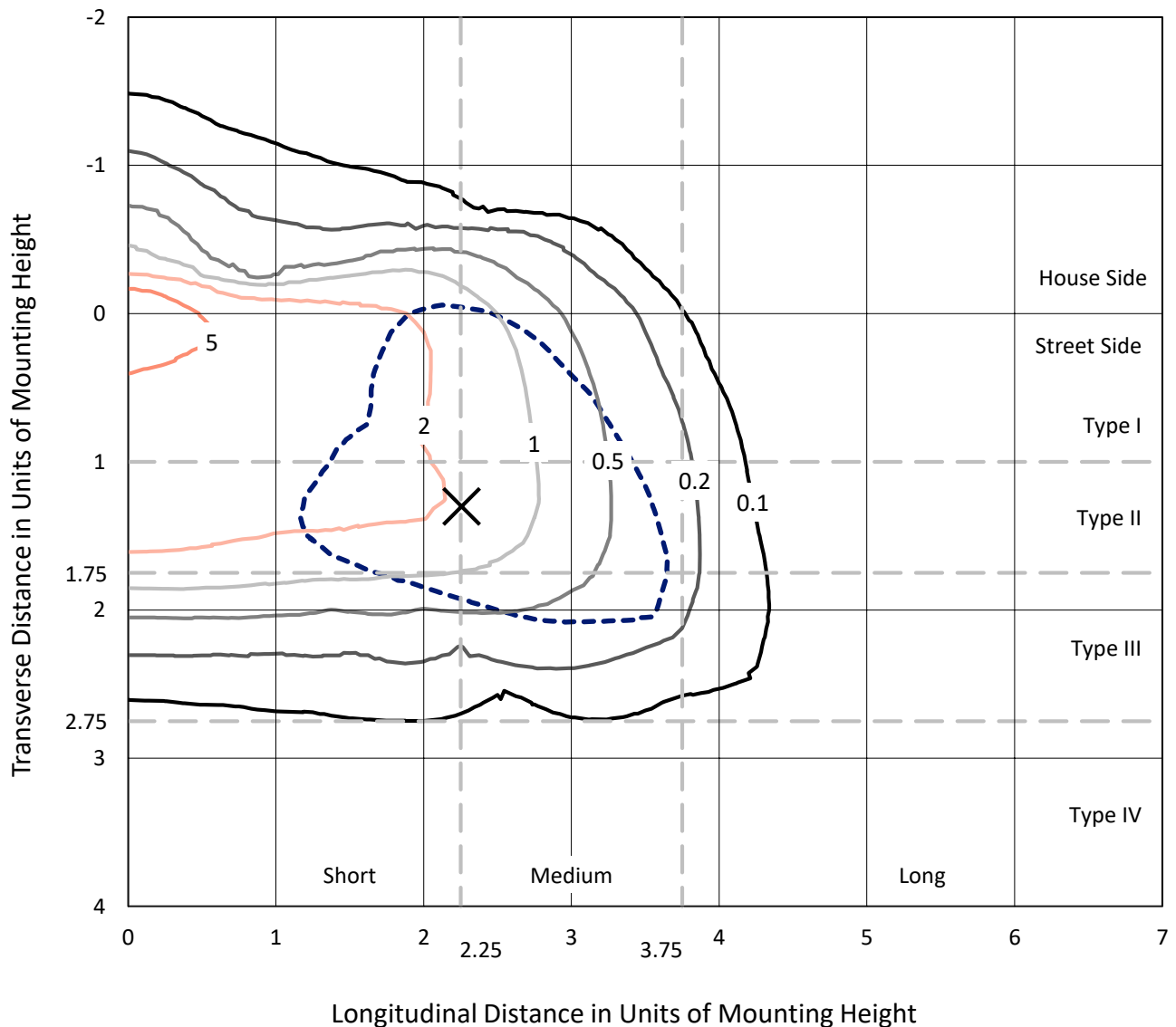
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

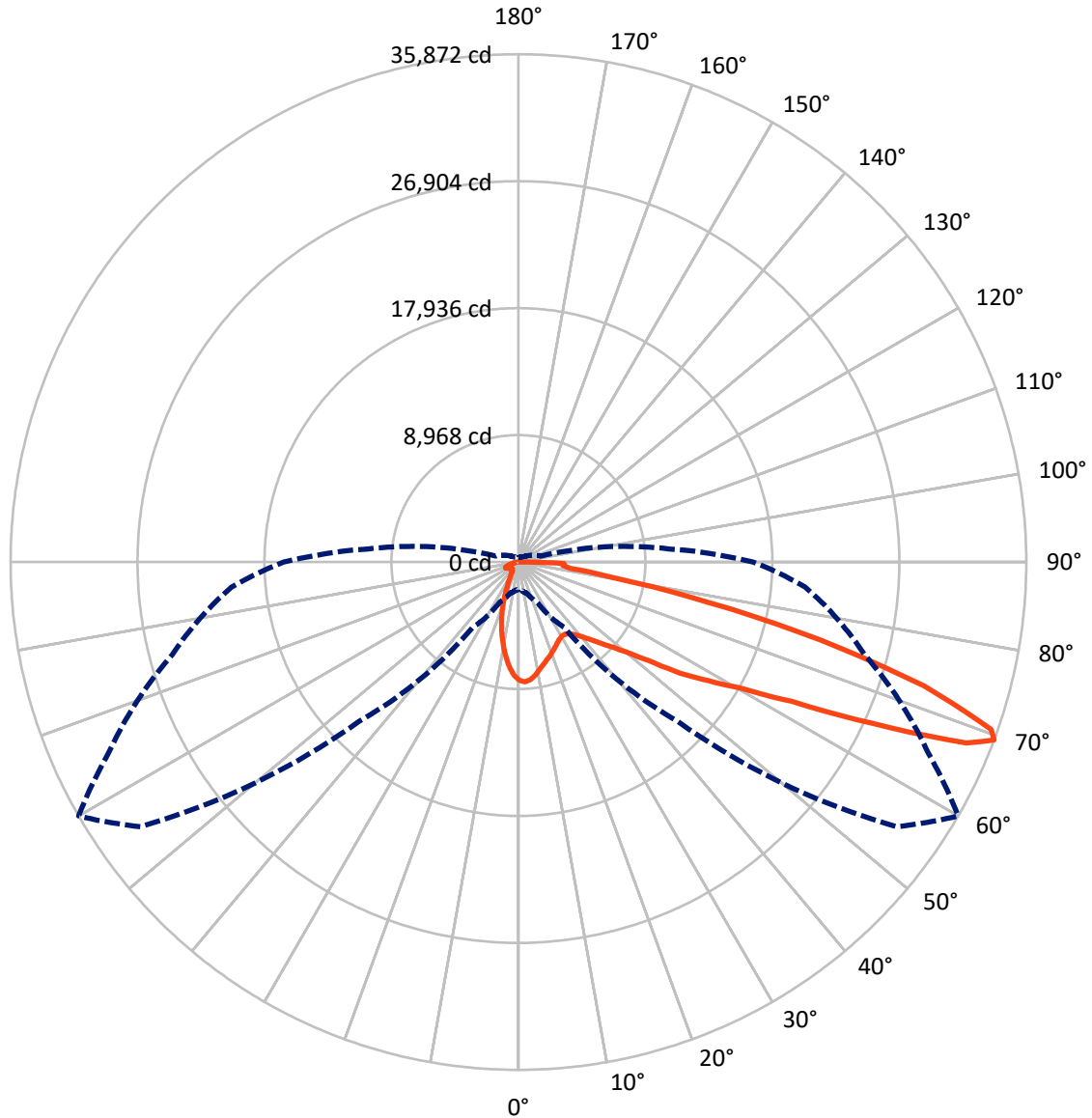
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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	4665.0	0.0	4665.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28125.2	0.0	28125.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	32790.2	0.0	32790.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.5	2.2
10°-20°	1505.2	4.6
20°-30°	1917.9	5.8
30°-40°	2636.6	8.0
40°-50°	4278.2	13.0
50°-60°	6861.1	20.9
60°-70°	9131.6	27.8
70°-80°	4930.4	15.0
80°-90°	822.7	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°	32790.2	100.0
0°-180°	32790.2	100.0

Coefficient of Utilization



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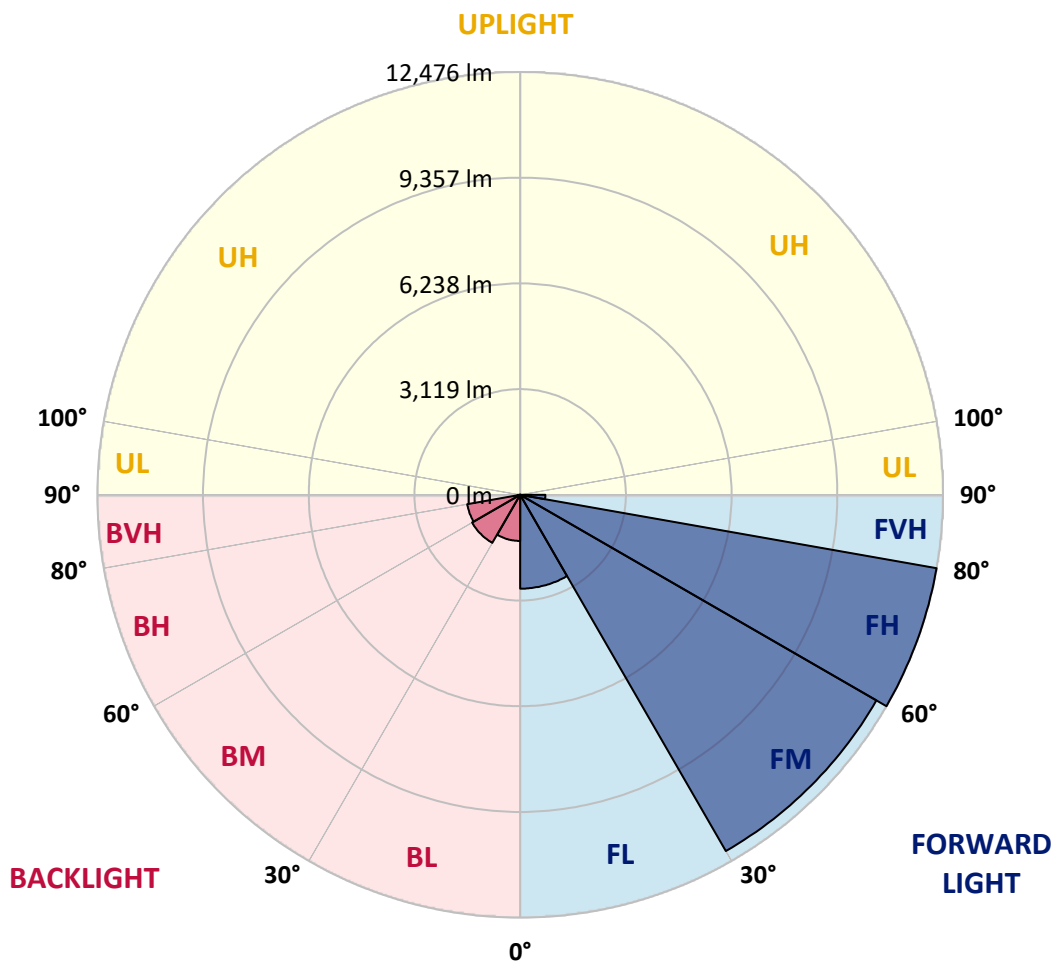
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.7	8.4			
FM (30°-60°)	12137.0	37.0			
FH (60°-80°)	12476.0	38.0			G5
FVH (80°-90°)	743.4	2.3			G4/750
BL (0°-30°)	1360.9	4.2	B3/2500		
BM (30°-60°)	1638.9	5.0	B2/2500		
BH (60°-80°)	1586.0	4.8	B3/2500		G3/2500
BVH (80°-90°)	79.2	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°	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4
2.5°	8526.5	8545.5	8537.6	8532.8	8547.1	8524.9	8479.0	8464.7	8442.6	8390.3	8301.6
5°	8206.5	8263.6	8260.4	8303.2	8374.4	8393.5	8372.9	8376.0	8334.8	8269.9	8122.6
7.5°	7653.7	7677.5	7690.2	7783.6	7913.5	8018.1	8106.8	8135.3	8116.3	8060.8	7870.7
10°	7083.5	7102.5	7132.6	7241.9	7406.6	7550.8	7718.7	7815.3	7856.5	7847.0	7634.7
12.5°	6594.1	6613.1	6652.7	6776.2	6972.6	7150.0	7394.0	7514.4	7612.6	7671.2	7443.1
15°	6155.3	6196.5	6234.5	6377.1	6597.2	6830.1	7105.7	7257.7	7409.8	7541.3	7273.6
17.5°	5813.2	5854.4	5876.5	6006.4	6240.8	6526.0	6849.1	7028.1	7218.1	7433.6	7105.7
20°	5615.2	5634.2	5624.7	5697.5	5908.2	6210.7	6594.1	6801.6	7031.2	7332.2	6937.8
22.5°	5559.7	5561.3	5526.5	5518.6	5654.8	5909.8	6321.6	6573.5	6855.4	7265.7	6793.6
25°	5694.4	5689.6	5594.6	5517.0	5531.2	5680.1	6058.7	6351.7	6708.1	7251.4	6682.8
27.5°	5993.7	6008.0	5867.0	5721.3	5577.2	5572.4	5859.1	6168.0	6587.7	7316.4	6635.2
30°	6413.5	6437.3	6286.8	6101.5	5830.6	5607.3	5781.5	6058.7	6513.3	7451.0	6627.3
32.5°	6872.8	6898.2	6784.1	6589.3	6234.5	5822.7	5835.3	6068.2	6510.1	7639.5	6681.2
35°	7362.3	7390.8	7332.2	7167.5	6773.1	6220.2	6041.3	6221.8	6613.1	7927.8	6825.3
37.5°	7908.8	7953.1	7969.0	7812.1	7390.8	6744.5	6378.6	6513.3	6845.9	8328.5	7089.8
40°	8696.0	8757.8	8753.0	8528.1	8098.8	7452.6	6899.8	6934.6	7208.6	8863.9	7512.8
42.5°	10203.9	10216.6	9822.2	9332.7	8878.1	8197.0	7514.4	7485.8	7709.2	9541.8	8135.3
45°	12122.1	12069.8	11192.3	10246.7	9692.3	9052.4	8314.3	8174.9	8344.4	10368.7	8914.6
47.5°	13714.0	13593.6	12484.8	11179.7	10554.0	9982.2	9253.6	9009.6	9103.1	11306.4	9922.0
50°	14266.8	14176.5	13257.8	11955.8	11369.7	11116.3	10409.8	10064.5	10089.9	12424.7	11102.0
52.5°	14148.0	14135.3	13522.3	12467.4	12133.2	12307.4	12047.7	11580.4	11333.3	13666.5	12375.6
55°	13867.7	13894.6	13672.8	13063.0	13006.0	13457.4	14187.6	13842.3	13074.1	14919.4	13691.8
57.5°	12893.5	12963.2	13451.1	13812.2	14411.0	15082.6	15911.0	15812.8	14947.9	16273.7	15256.8
60°	10387.7	10549.2	11857.6	13666.5	15857.1	17957.5	18328.1	18100.0	16880.4	17954.3	17323.9
62.5°	7278.3	7446.2	9001.7	11832.3	15619.5	21204.6	22649.2	21665.5	19655.5	20430.0	19999.2
65°	3896.6	3977.3	5165.3	8209.7	13186.5	21874.6	28964.5	27467.6	24049.4	23482.4	22288.0
67.5°	2149.4	2193.8	2648.4	4145.2	8445.7	19262.7	32987.8	34118.7	29541.0	25514.6	21871.5
69°	1943.5	1984.7	2282.5	3139.4	5651.6	15926.8	32594.9	35872.2	31948.7	25313.4	20331.8
70°	1900.8	1938.8	2206.5	2893.9	4574.5	13127.9	31278.6	35423.9	32522.1	24592.7	18988.6
72.5°	1710.7	1751.9	2011.6	2599.3	3909.2	6545.0	24776.5	29951.3	29526.8	21323.4	14403.0
75°	1595.1	1633.1	2073.4	2545.4	3742.9	4142.1	16333.9	22074.2	21705.1	14916.2	7766.2
77.5°	682.7	679.5	961.5	2154.2	3798.4	4010.6	8776.8	13790.0	12581.5	6375.5	2230.2
80°	456.2	448.3	456.2	633.6	3483.1	4032.8	4598.3	6999.6	5287.3	1625.2	1099.3
82.5°	392.8	386.5	400.7	386.5	1224.4	4603.0	3909.2	3722.3	2513.8	923.5	544.9
85°	264.5	253.4	345.3	346.9	578.1	4089.8	4403.4	3144.2	2033.8	548.1	269.3
87.5°	126.7	123.5	201.2	245.5	339.0	1661.6	4940.4	3221.8	2051.2	280.4	128.3
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°	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4	8355.4
2.5°	8274.7	8209.7	8146.4	8070.3	7991.1	7902.4	7858.1	7813.7	7802.6	7790.0	7745.6
5°	8046.6	7954.7	7796.3	7622.1	7438.3	7259.3	7123.1	7037.6	6972.6	6939.4	6880.8
7.5°	7751.9	7617.3	7340.1	7039.2	6730.3	6448.3	6204.4	6050.8	5905.0	5836.9	5759.3
10°	7471.6	7270.4	6839.6	6396.1	5952.6	5526.5	5125.7	4842.2	4590.3	4449.4	4349.6
12.5°	7230.8	6955.2	6358.1	5757.7	5149.5	4542.8	3942.5	3470.5	3076.1	2868.6	2762.4
15°	6996.4	6663.8	5900.3	5138.4	4357.5	3532.3	2743.4	2208.1	1881.8	1751.9	1707.5
17.5°	6784.1	6358.1	5440.9	4514.3	3540.2	2542.3	1843.7	1549.1	1424.0	1381.2	1367.0
20°	6554.5	6049.2	4964.2	3861.7	2688.0	1777.2	1439.8	1309.9	1259.3	1246.6	1240.2
22.5°	6332.7	5745.1	4508.0	3163.2	1930.9	1371.7	1237.1	1183.2	1175.3	1186.4	1186.4
25°	6144.2	5472.6	4015.4	2433.0	1417.7	1154.7	1107.2	1094.5	1124.6	1165.8	1173.7
27.5°	6003.2	5249.3	3491.1	1796.2	1129.4	1004.2	1002.7	1023.2	1097.7	1176.9	1192.7
30°	5906.6	5037.0	2930.3	1295.7	947.2	883.9	909.2	953.5	1062.8	1175.3	1205.4
32.5°	5857.5	4880.2	2345.9	1002.7	811.0	776.1	818.9	872.8	980.5	1085.0	1124.6
35°	5895.5	4764.6	1794.6	836.3	716.0	689.0	733.4	785.6	849.0	893.4	923.5
37.5°	6038.1	4718.6	1354.3	749.2	651.0	625.7	660.5	690.6	716.0	728.6	742.9
40°	6345.4	4767.7	1085.0	704.9	614.6	582.9	597.2	608.2	624.1	636.8	643.1
42.5°	6798.4	4915.1	972.6	687.4	595.6	549.6	546.5	551.2	571.8	595.6	600.3
45°	7432.0	5174.8	964.6	698.5	586.1	522.7	508.5	514.8	546.5	582.9	589.2
47.5°	8241.4	5570.8	1028.0	731.8	594.0	508.5	484.7	492.6	532.2	581.3	589.2
50°	9221.9	6123.6	1134.1	780.9	628.8	511.6	476.8	481.5	522.7	576.6	584.5
52.5°	10379.8	6907.7	1249.8	828.4	665.3	532.2	483.1	472.0	510.0	557.6	567.1
55°	11667.5	7913.5	1368.5	871.2	684.3	557.6	495.8	459.4	486.3	525.9	533.8
57.5°	13248.3	9320.1	1574.5	912.4	696.9	575.0	508.5	446.7	456.2	484.7	491.0
60°	15388.3	11309.5	1937.2	980.5	725.5	581.3	506.9	435.6	426.1	441.9	445.1
62.5°	17952.7	13470.1	2239.7	1066.0	773.0	586.1	497.4	427.7	400.7	400.7	403.9
65°	19474.9	14048.2	2071.8	1137.3	812.6	581.3	486.3	419.8	381.7	364.3	365.9
67.5°	18184.0	12355.0	1775.6	1151.5	811.0	559.1	468.9	405.5	362.7	335.8	334.2
69°	16566.7	10660.1	1642.6	1113.5	773.0	530.6	446.7	389.7	348.5	320.0	318.4
70°	15263.1	9625.8	1555.5	1072.3	731.8	510.0	429.3	375.4	337.4	310.5	307.3
72.5°	11097.3	6307.4	1329.0	921.9	603.5	427.7	370.6	329.5	301.0	285.1	281.9
75°	5545.5	3008.0	1078.7	747.6	462.5	342.1	304.1	275.6	261.4	258.2	256.6
77.5°	1821.6	1378.1	771.4	557.6	343.7	267.7	245.5	224.9	221.8	231.3	228.1
80°	1001.1	801.5	489.4	369.1	234.4	196.4	193.2	182.2	186.9	202.7	199.6
82.5°	510.0	416.6	302.5	221.8	158.4	141.0	153.6	147.3	153.6	167.9	166.3
85°	251.9	228.1	191.7	134.6	104.5	90.3	109.3	114.0	117.2	128.3	128.3
87.5°	145.7	134.6	101.4	63.4	52.3	47.5	63.4	61.8	72.9	79.2	77.6
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)