

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: P459160

Luminaire Tested: **GALN-SA6C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38493 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

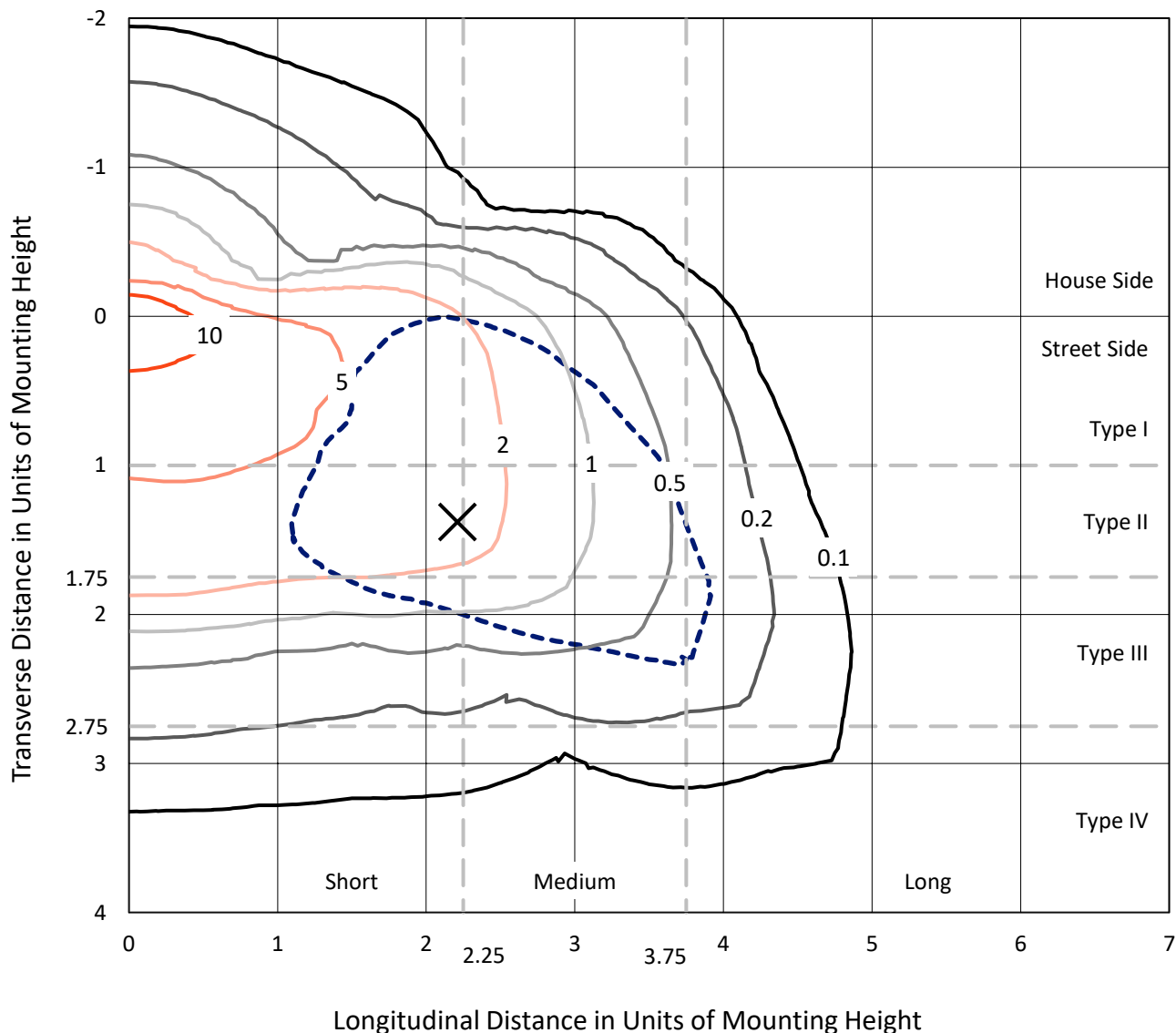
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

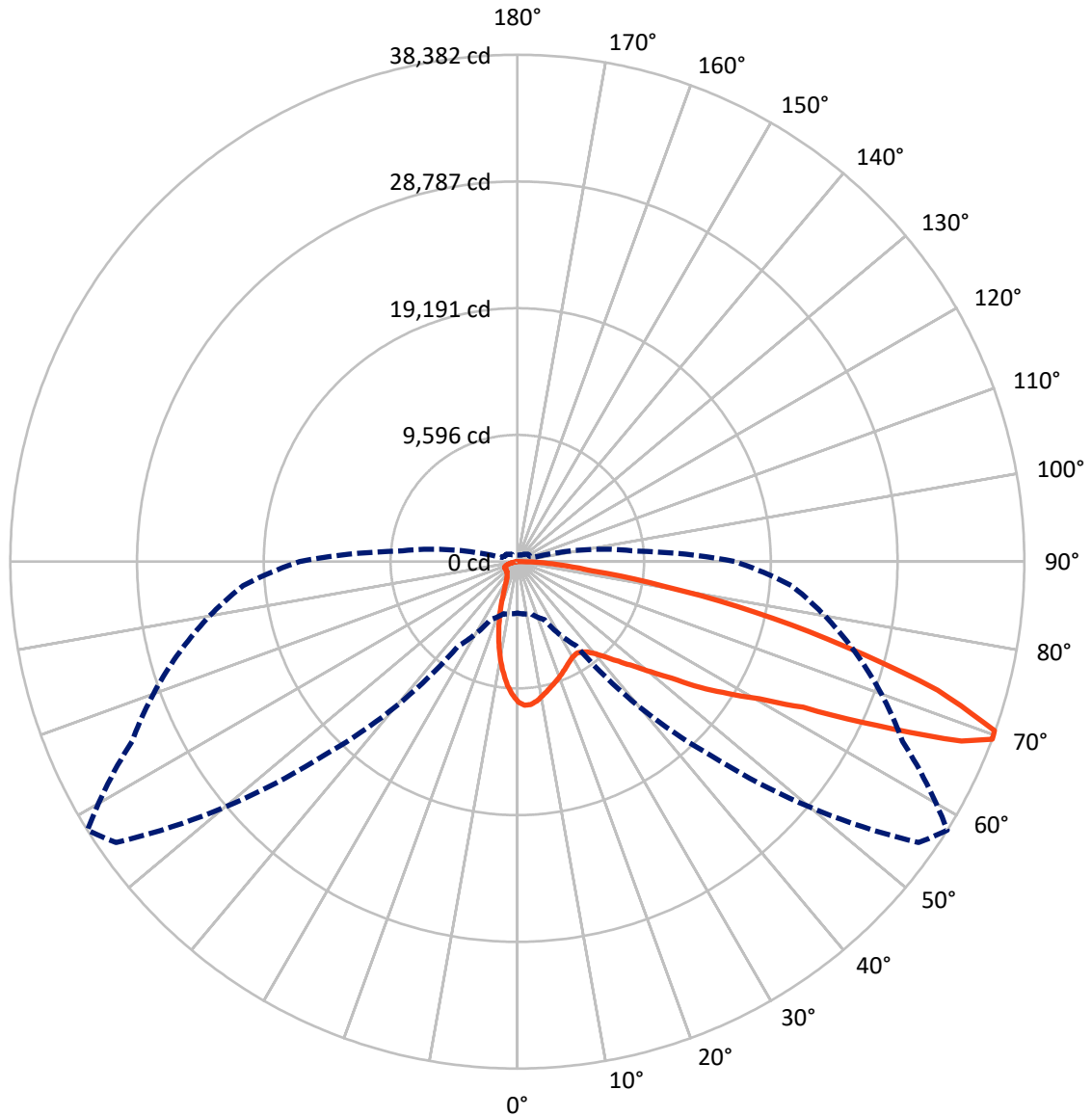
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5641.2	0.0	5641.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32851.8	0.0	32851.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	38493.0	0.0	38493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.4	2.3
10°-20°	1983.6	5.2
20°-30°	2562.9	6.7
30°-40°	3328.7	8.6
40°-50°	4839.4	12.6
50°-60°	7722.1	20.1
60°-70°	10315.7	26.8
70°-80°	5946.6	15.4
80°-90°	890.7	2.3
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°	38493.0	100.0
0°-180°	38493.0	100.0

Coefficient of Utilization

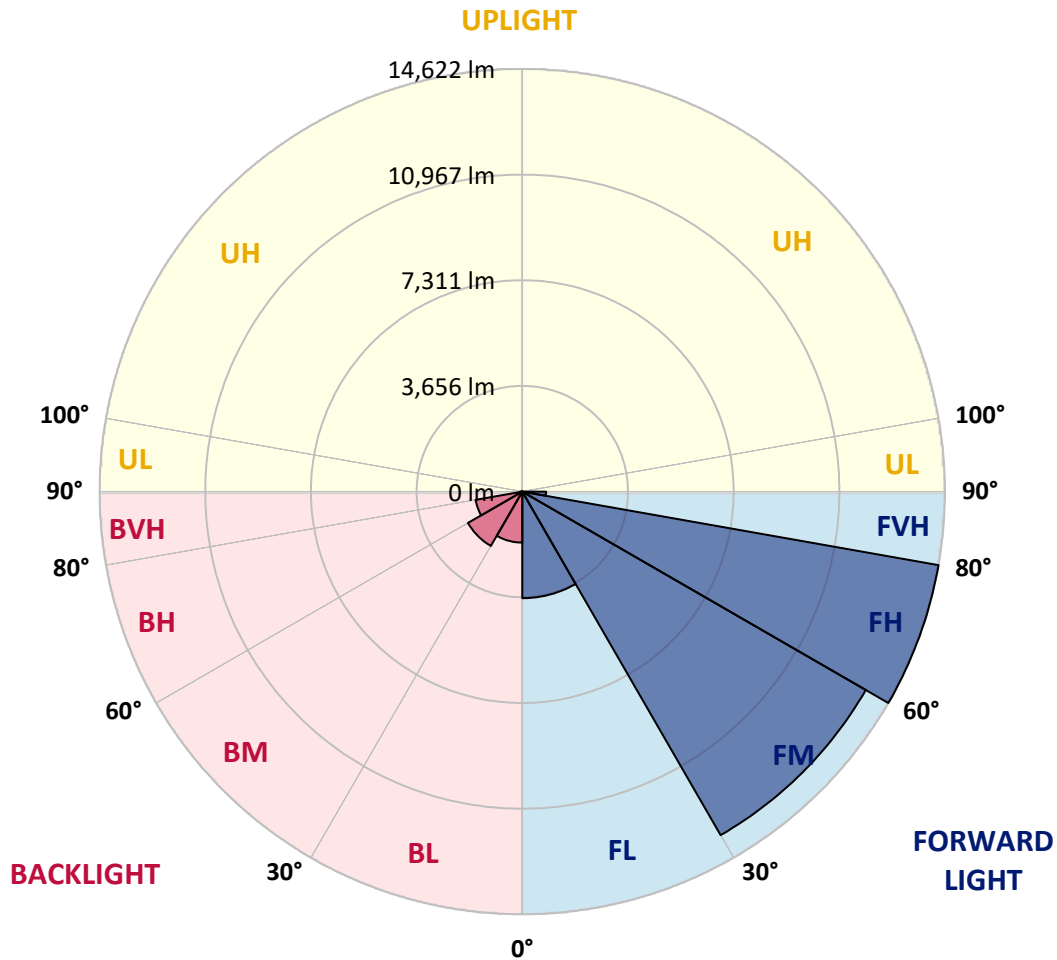


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3686.6	9.6			
FM	(30°-60°)	13720.8	35.6			
FH	(60°-80°)	14622.0	38.0			G5
FVH	(80°-90°)	822.4	2.1			G5
BL	(0°-30°)	1763.2	4.6	B3/2500		
BM	(30°-60°)	2169.4	5.6	B2/2500		
BH	(60°-80°)	1640.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	68.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2
2.5°	11032.2	11062.3	11053.7	11042.9	11025.8	10978.5	10901.3	10888.4	10839.0	10733.8	10602.9
5°	10862.6	10888.4	10890.5	10905.6	10927.0	10918.4	10862.6	10856.2	10783.2	10641.5	10422.5
7.5°	10280.8	10315.2	10390.3	10474.1	10549.2	10620.0	10637.2	10647.9	10602.9	10439.7	10147.7
10°	9626.1	9660.4	9694.8	9819.3	10003.9	10180.0	10325.9	10345.3	10356.0	10205.7	9849.3
12.5°	8900.5	8971.3	9044.3	9228.9	9475.8	9752.7	10010.4	10051.1	10124.1	10010.4	9591.7
15°	8284.4	8357.3	8462.5	8627.8	8926.2	9325.5	9688.3	9754.9	9898.7	9840.8	9351.3
17.5°	7857.2	7882.9	7955.9	8144.8	8466.8	8887.6	9372.8	9505.9	9735.6	9720.5	9145.2
20°	7520.1	7552.3	7597.4	7713.3	8048.2	8492.6	9078.7	9250.4	9561.7	9613.2	8941.3
22.5°	7378.4	7402.0	7395.6	7457.9	7685.4	8131.9	8780.3	8984.2	9407.1	9540.2	8752.4
25°	7387.0	7408.5	7376.3	7361.3	7496.5	7814.2	8469.0	8728.7	9282.6	9490.8	8580.6
27.5°	7530.8	7545.9	7485.8	7425.7	7436.4	7616.7	8211.4	8499.0	9177.4	9512.3	8436.8
30°	7724.1	7752.0	7713.3	7640.3	7560.9	7569.5	8046.1	8329.4	9128.0	9587.4	8368.1
32.5°	7973.1	7998.8	7981.7	7923.7	7820.7	7706.9	8005.3	8267.2	9132.3	9739.9	8353.1
35°	8235.0	8286.5	8314.4	8310.1	8226.4	8028.9	8166.3	8383.1	9235.4	9995.3	8441.1
37.5°	8531.2	8574.2	8694.4	8771.7	8694.4	8464.7	8529.1	8679.4	9462.9	10364.6	8634.3
40°	8818.9	8883.3	9059.3	9299.8	9269.7	9067.9	9083.0	9181.7	9864.4	10914.1	9012.1
42.5°	9119.5	9196.7	9503.7	9860.1	9930.9	9774.2	9815.0	9903.0	10435.4	11676.2	9660.4
45°	9505.9	9598.2	9976.0	10420.4	10699.5	10602.9	10718.8	10761.7	11199.7	12668.0	10514.8
47.5°	10003.9	10111.3	10577.1	11131.0	11526.0	11614.0	11815.8	11790.0	12146.4	13842.3	11622.6
50°	10843.3	10903.4	11343.5	11908.1	12451.2	12848.4	13067.3	13108.1	13320.7	14984.4	12861.3
52.5°	11841.5	11895.2	12212.9	12706.7	13387.2	14228.7	14769.7	14636.6	14688.2	16375.5	14310.3
55°	12964.3	13054.5	13256.3	13584.7	14467.0	15705.7	16792.0	16824.2	16253.1	17706.5	15699.3
57.5°	13833.7	13986.2	14331.8	14799.8	15918.2	17348.0	18807.8	18829.3	18099.4	19127.7	17232.1
60°	13395.8	13576.1	14366.1	15506.1	17822.4	20213.9	21216.5	21094.1	19896.2	20746.3	19101.9
62.5°	11506.7	11538.9	12687.4	14469.2	18408.5	24048.0	24801.6	24284.2	22294.1	22798.6	21001.8
65°	7447.1	7657.5	8567.7	11064.4	16482.8	26175.5	31083.0	29887.2	25656.0	25127.9	22592.5
67.5°	4701.4	4647.7	5025.6	6317.9	11337.1	24301.4	36443.5	36254.5	30052.5	26598.4	22212.6
69°	3898.5	3958.6	4087.4	4843.1	7801.3	20748.5	37076.7	38382.0	32184.3	26482.5	20832.2
70°	3535.7	3563.6	3698.9	4293.5	6019.5	17378.0	36037.7	38324.0	33021.5	25997.3	19831.8
72.5°	2805.8	2803.7	3035.5	3572.2	4499.6	9920.2	29591.0	33272.7	32085.5	23738.9	16386.2
75°	2131.7	2166.1	2421.5	3022.6	4145.4	5420.6	20649.7	25623.8	25625.9	18749.8	10225.0
77.5°	1537.1	1558.6	1857.0	2537.5	3905.0	4394.4	13754.3	18378.4	17277.2	8591.3	3213.7
80°	1006.8	1019.7	1247.3	2009.4	3520.7	4145.4	8155.6	11249.0	8149.1	2279.9	1062.6
82.5°	551.7	616.1	762.1	1300.9	2825.1	3829.8	4956.9	5693.2	3057.0	1015.4	553.9
85°	276.9	294.1	429.4	760.0	1846.2	3168.6	3452.0	3265.2	1577.9	504.5	287.7
87.5°	81.6	103.0	178.2	294.1	749.2	1650.9	1921.4	1723.9	607.5	182.5	60.1
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°	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2	10637.2
2.5°	10549.2	10510.6	10338.8	10184.2	10042.6	9892.3	9765.6	9654.0	9664.7	9666.9	9553.1
5°	10308.8	10220.7	9894.4	9589.6	9332.0	9005.7	8726.6	8546.3	8456.1	8335.9	8378.8
7.5°	9982.4	9812.9	9359.9	8853.3	8378.8	7955.9	7496.5	7180.9	6979.1	6783.8	6809.5
10°	9645.4	9372.8	8713.7	8043.9	7429.9	6753.7	6167.7	5665.3	5291.8	5152.2	5059.9
12.5°	9299.8	8941.3	8104.0	7213.1	6365.2	5555.8	4725.0	4186.2	3774.0	3555.0	3582.9
15°	8984.2	8548.4	7468.6	6382.3	5281.0	4317.1	3488.5	2975.4	2687.7	2627.6	2662.0
17.5°	8692.2	8121.2	6873.9	5575.1	4289.2	3237.3	2621.2	2331.4	2215.5	2183.3	2181.1
20°	8391.7	7758.4	6206.3	4712.1	3342.5	2509.6	2151.1	2015.8	1994.3	2007.2	2009.4
22.5°	8086.9	7309.7	5519.3	3855.6	2662.0	2052.3	1880.6	1844.1	1861.2	1891.3	1895.6
25°	7805.6	6914.7	4858.1	3104.2	2125.3	1803.3	1719.6	1719.6	1758.2	1803.3	1805.4
27.5°	7573.8	6532.6	4199.1	2464.5	1779.7	1623.0	1595.0	1610.1	1663.7	1698.1	1700.2
30°	7382.7	6176.2	3576.5	1975.0	1565.0	1479.1	1472.7	1498.4	1537.1	1569.3	1571.4
32.5°	7238.9	5862.8	2994.7	1659.4	1416.9	1369.6	1367.5	1386.8	1408.3	1416.9	1425.5
35°	7183.1	5603.1	2462.3	1459.8	1318.1	1288.1	1288.1	1285.9	1294.5	1298.8	1303.1
37.5°	7228.2	5403.4	2050.2	1331.0	1245.1	1223.7	1210.8	1197.9	1193.6	1193.6	1195.7
40°	7419.2	5298.2	1743.2	1247.3	1193.6	1161.4	1137.8	1122.8	1107.7	1112.0	1116.3
42.5°	7825.0	5317.5	1534.9	1191.5	1148.5	1103.4	1069.1	1051.9	1041.2	1054.1	1051.9
45°	8471.1	5510.7	1401.8	1152.8	1103.4	1045.5	1013.3	996.1	996.1	1015.4	1021.9
47.5°	9374.9	5880.0	1331.0	1122.8	1069.1	1000.4	968.2	955.3	959.6	991.8	994.0
50°	10478.4	6521.9	1318.1	1107.7	1051.9	968.2	931.7	918.8	929.5	963.9	968.2
52.5°	11695.6	7348.4	1380.4	1109.9	1036.9	948.9	901.6	882.3	893.1	921.0	929.5
55°	13138.2	8383.1	1541.4	1118.5	1015.4	938.1	880.2	837.2	850.1	869.4	871.6
57.5°	14610.9	9688.3	1824.7	1120.6	998.2	918.8	843.7	787.9	787.9	800.7	807.2
60°	16409.9	11109.5	2198.3	1122.8	1000.4	890.9	794.3	732.0	723.5	729.9	732.0
62.5°	18196.0	12298.8	2260.5	1116.3	1021.9	863.0	740.6	676.2	661.2	659.1	654.8
65°	18983.8	12077.7	1852.7	1086.3	1045.5	845.8	697.7	622.6	596.8	588.2	588.2
67.5°	17700.1	10216.4	1393.2	1045.5	1030.4	828.7	656.9	577.5	547.4	530.3	530.3
69°	16493.6	9087.2	1251.6	1017.6	991.8	800.7	631.1	553.9	517.4	498.0	491.6
70°	15561.9	8310.1	1191.5	994.0	955.3	768.5	611.8	536.7	495.9	474.4	470.1
72.5°	12419.0	6519.7	1043.3	903.8	813.6	646.2	543.1	483.0	444.4	420.8	414.3
75°	7157.3	3533.6	865.1	785.7	654.8	502.3	459.4	420.8	390.7	369.2	362.8
77.5°	2202.6	1365.3	626.9	620.4	480.9	388.6	367.1	352.1	330.6	307.0	302.7
80°	927.4	695.6	425.1	418.6	319.9	270.5	264.1	261.9	253.3	234.0	227.6
82.5°	508.8	392.9	296.3	257.6	193.2	156.7	163.2	165.3	158.9	139.5	126.7
85°	249.0	214.7	143.8	115.9	88.0	55.8	53.7	64.4	60.1	42.9	47.2
87.5°	49.4	60.1	38.6	17.2	8.6	0.0	0.0	0.0	0.0	0.0	0.0
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)