

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: P459102

Luminaire Tested: **GALN-SA6A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459102
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-SA6A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 25039 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

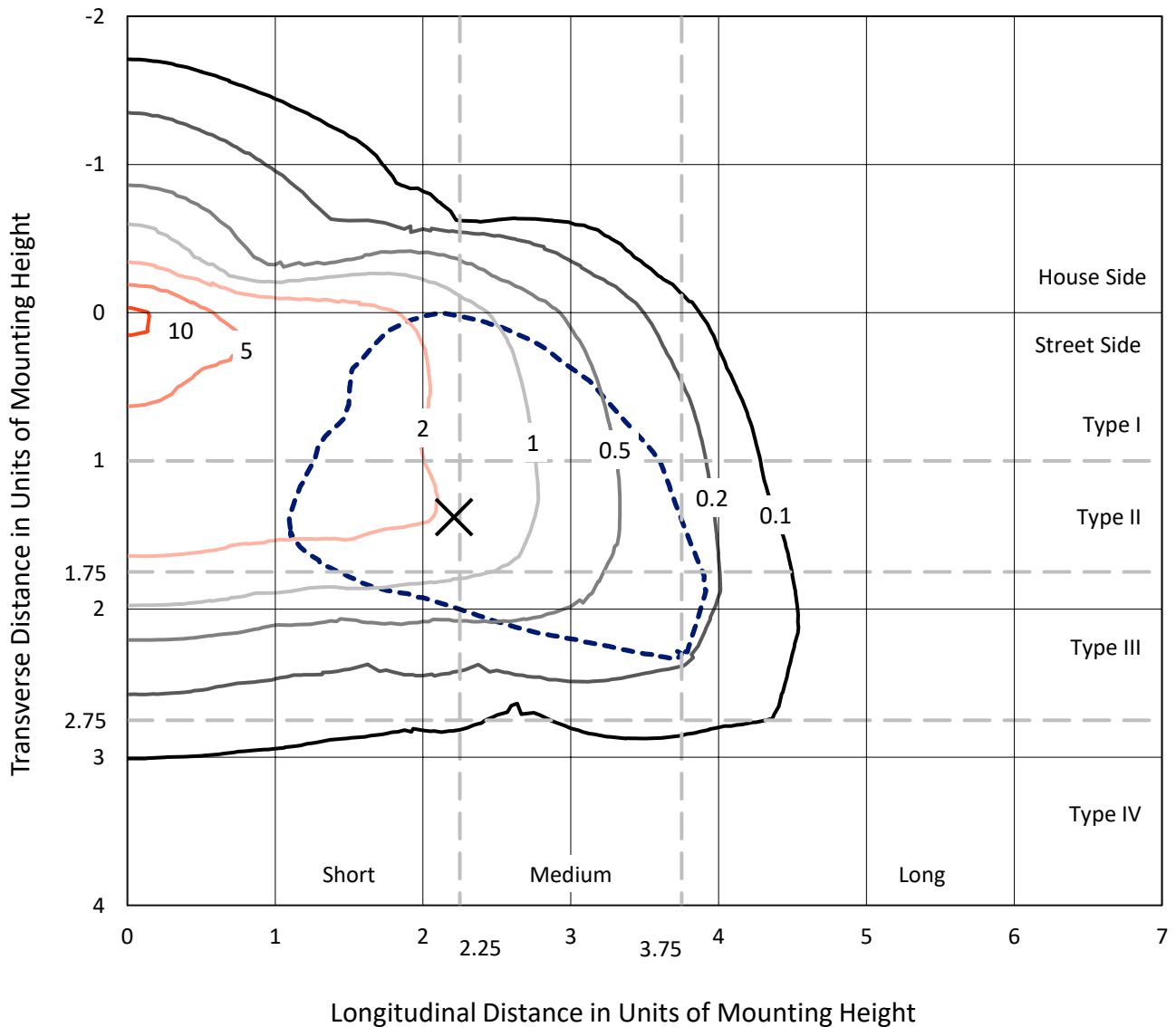
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

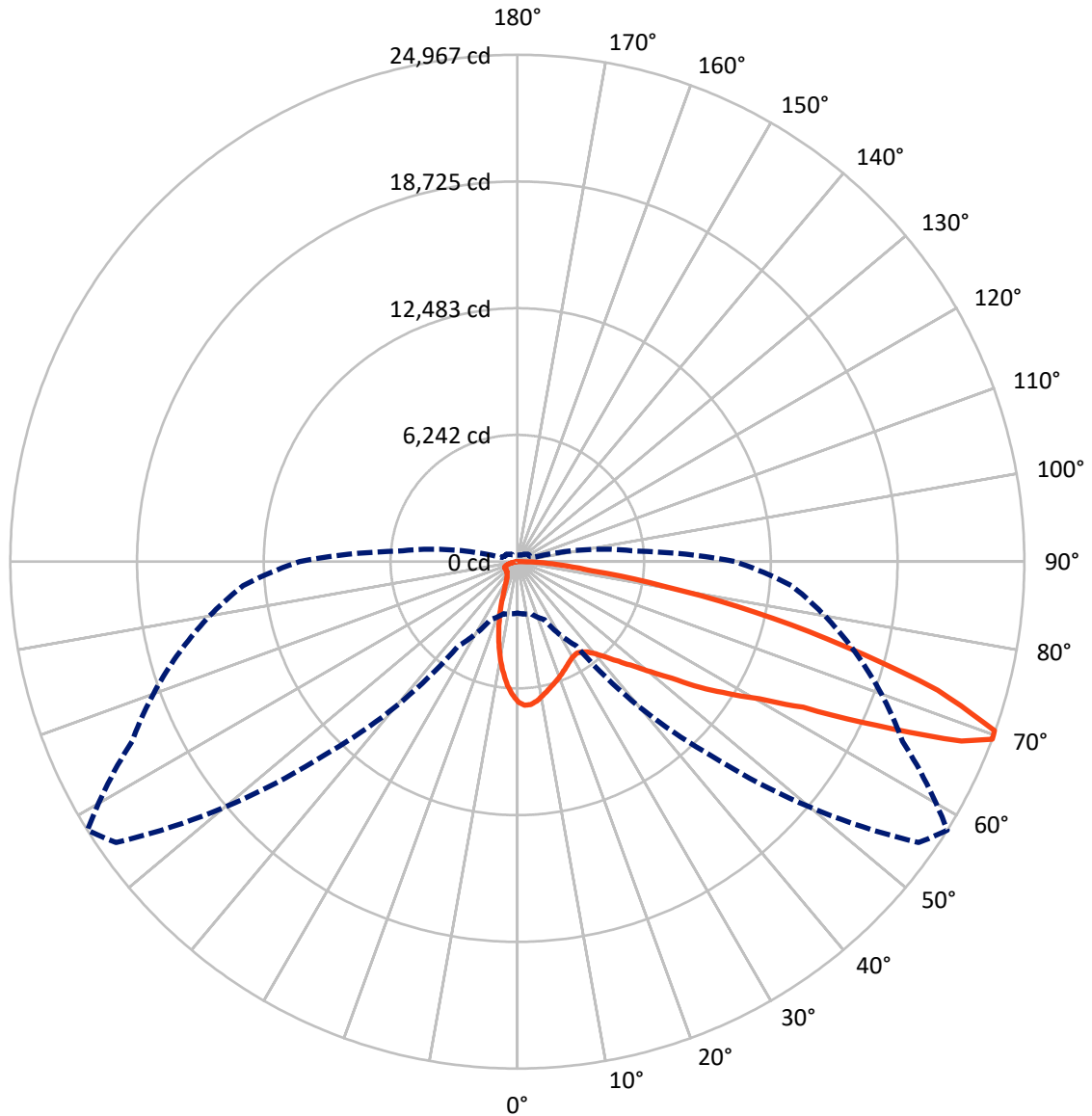
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3669.5	0.0	3669.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21369.5	0.0	21369.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	25039.0	0.0	25039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.6	2.3
10°-20°	1290.3	5.2
20°-30°	1667.1	6.7
30°-40°	2165.2	8.6
40°-50°	3147.9	12.6
50°-60°	5023.1	20.1
60°-70°	6710.2	26.8
70°-80°	3868.2	15.4
80°-90°	579.4	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°	25039.0	100.0
0°-180°	25039.0	100.0

Coefficient of Utilization



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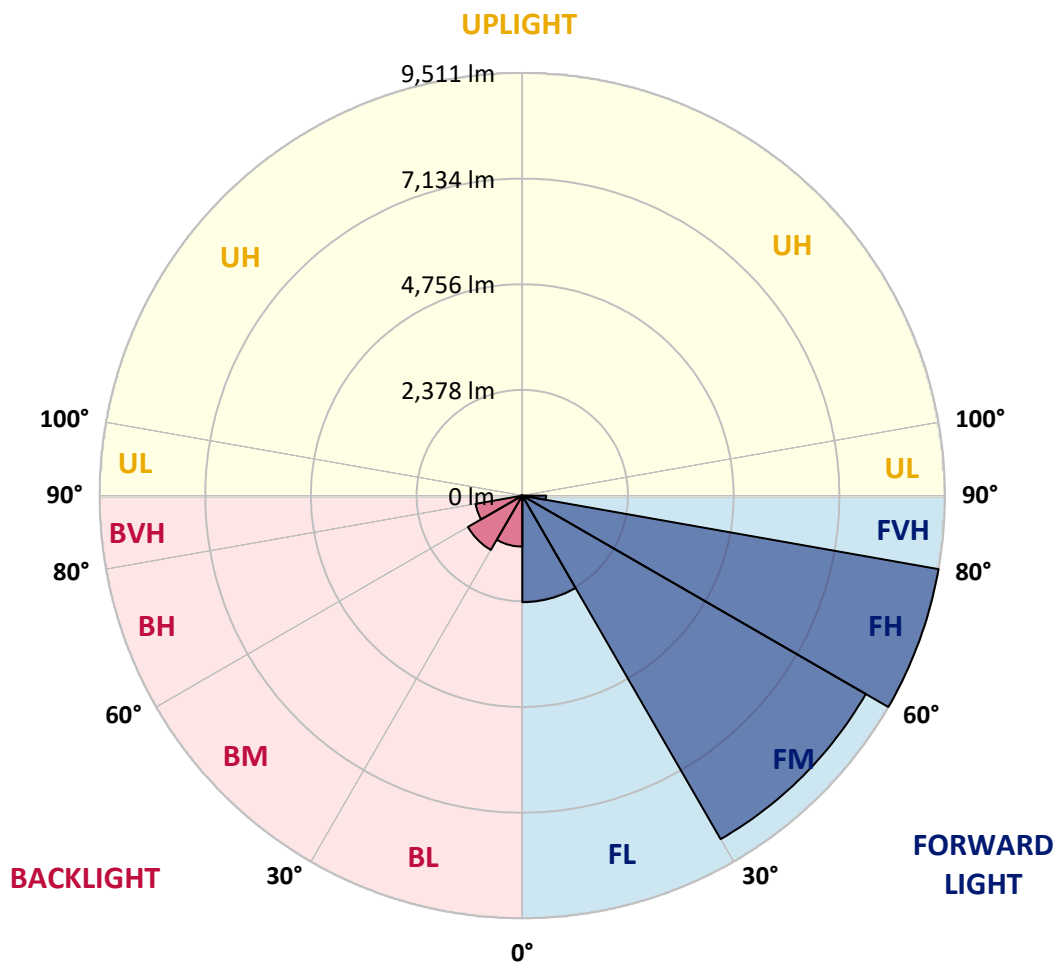
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2398.1	9.6			
FM	(30°-60°)	8925.1	35.6			
FH	(60°-80°)	9511.4	38.0			G4/12000
FVH	(80°-90°)	535.0	2.1			G4/750
BL	(0°-30°)	1146.9	4.6	B3/2500		
BM	(30°-60°)	1411.2	5.6	B2/2500		
BH	(60°-80°)	1067.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	44.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3
2.5°	7176.3	7195.8	7190.2	7183.2	7172.1	7141.3	7091.1	7082.7	7050.6	6982.2	6897.0
5°	7065.9	7082.7	7084.1	7093.9	7107.8	7102.2	7065.9	7061.7	7014.3	6922.1	6779.7
7.5°	6687.5	6709.8	6758.7	6813.2	6862.1	6908.1	6919.3	6926.3	6897.0	6790.8	6600.9
10°	6261.6	6283.9	6306.3	6387.3	6507.4	6621.9	6716.8	6729.4	6736.4	6638.6	6406.8
12.5°	5789.6	5835.7	5883.2	6003.3	6163.8	6344.0	6511.6	6538.1	6585.6	6511.6	6239.3
15°	5388.8	5436.3	5504.7	5612.3	5806.4	6066.1	6302.1	6345.4	6438.9	6401.2	6082.9
17.5°	5110.9	5127.7	5175.2	5298.1	5507.5	5781.2	6096.8	6183.4	6332.8	6323.0	5948.8
20°	4891.7	4912.6	4942.0	5017.4	5235.2	5524.3	5905.5	6017.2	6219.7	6253.2	5816.1
22.5°	4799.5	4814.9	4810.7	4851.2	4999.2	5289.7	5711.4	5844.1	6119.2	6205.7	5693.2
25°	4805.1	4819.1	4798.1	4788.4	4876.3	5083.0	5508.9	5677.9	6038.2	6173.6	5581.5
27.5°	4898.7	4908.5	4869.4	4830.3	4837.2	4954.5	5341.3	5528.5	5969.7	6187.6	5488.0
30°	5024.4	5042.5	5017.4	4969.9	4918.2	4923.8	5233.8	5418.2	5937.6	6236.5	5443.3
32.5°	5186.3	5203.1	5191.9	5154.2	5087.2	5013.2	5207.3	5377.7	5940.4	6335.6	5433.5
35°	5356.7	5390.2	5408.4	5405.6	5351.1	5222.7	5312.0	5453.1	6007.4	6501.8	5490.8
37.5°	5549.4	5577.3	5655.5	5705.8	5655.5	5506.1	5548.0	5645.8	6155.5	6742.0	5616.4
40°	5736.5	5778.4	5892.9	6049.3	6029.8	5898.5	5908.3	5972.5	6416.6	7099.5	5862.2
42.5°	5932.0	5982.3	6182.0	6413.8	6459.9	6357.9	6384.5	6441.7	6788.0	7595.2	6283.9
45°	6183.4	6243.4	6489.2	6778.3	6959.8	6897.0	6972.4	7000.3	7285.2	8240.3	6839.7
47.5°	6507.4	6577.2	6880.2	7240.5	7497.4	7554.7	7686.0	7669.2	7901.0	9004.2	7560.3
50°	7053.4	7092.5	7378.7	7746.0	8099.3	8357.6	8500.1	8526.6	8664.9	9747.1	8366.0
52.5°	7702.7	7737.6	7944.3	8265.5	8708.1	9255.5	9607.4	9520.9	9554.4	10652.0	9308.6
55°	8433.0	8491.7	8623.0	8836.6	9410.5	10216.3	10922.9	10943.8	10572.4	11517.8	10212.1
57.5°	8998.6	9097.7	9322.6	9627.0	10354.5	11284.6	12234.1	12248.1	11773.3	12442.2	11209.1
60°	8713.7	8831.0	9344.9	10086.4	11593.2	13148.8	13800.9	13721.3	12942.1	13495.1	12425.4
62.5°	7484.9	7505.8	8252.9	9411.9	11974.4	15642.8	16133.0	15796.4	14501.9	14830.1	13661.3
65°	4844.2	4981.1	5573.2	7197.2	10721.8	17026.7	20218.9	19441.1	16688.7	16345.2	14696.0
67.5°	3058.2	3023.3	3269.0	4109.7	7374.6	15807.6	23705.8	23582.9	19548.6	17301.8	14448.9
69°	2535.9	2575.0	2658.8	3150.3	5074.6	13496.5	24117.8	24966.8	20935.3	17226.4	13551.0
70°	2299.9	2318.1	2406.0	2792.9	3915.6	11304.1	23441.9	24929.1	21479.9	16910.8	12900.2
72.5°	1825.1	1823.7	1974.6	2323.7	2926.9	6452.9	19248.4	21643.3	20871.1	15441.7	10659.0
75°	1386.7	1409.0	1575.2	1966.2	2696.5	3526.0	13432.3	16667.8	16669.2	12196.4	6651.2
77.5°	999.8	1013.8	1207.9	1650.6	2540.1	2858.5	8946.9	11954.8	11238.5	5588.5	2090.5
80°	654.9	663.3	811.3	1307.1	2290.1	2696.5	5305.0	7317.3	5300.9	1483.0	691.2
82.5°	358.9	400.8	495.7	846.2	1837.7	2491.2	3224.4	3703.3	1988.5	660.5	360.3
85°	180.1	191.3	279.3	494.3	1200.9	2061.1	2245.5	2124.0	1026.4	328.2	187.1
87.5°	53.1	67.0	115.9	191.3	487.4	1073.9	1249.8	1121.3	395.2	118.7	39.1
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°	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3	6919.3
2.5°	6862.1	6836.9	6725.2	6624.7	6532.5	6434.8	6352.4	6279.7	6286.7	6288.1	6214.1
5°	6705.7	6648.4	6436.1	6237.9	6070.3	5858.0	5676.5	5559.2	5500.5	5422.3	5450.3
7.5°	6493.4	6383.1	6088.4	5758.9	5450.3	5175.2	4876.3	4671.1	4539.8	4412.7	4429.5
10°	6274.2	6096.8	5668.1	5232.4	4833.0	4393.2	4011.9	3685.2	3442.2	3351.4	3291.4
12.5°	6049.3	5816.1	5271.5	4692.0	4140.4	3614.0	3073.5	2723.0	2454.9	2312.5	2330.6
15°	5844.1	5560.6	4858.2	4151.6	3435.2	2808.2	2269.2	1935.5	1748.3	1709.2	1731.6
17.5°	5654.1	5282.7	4471.4	3626.5	2790.1	2105.8	1705.0	1516.5	1441.1	1420.2	1418.8
20°	5458.6	5046.7	4037.1	3065.2	2174.2	1632.4	1399.2	1311.2	1297.3	1305.7	1307.1
22.5°	5260.4	4754.8	3590.2	2508.0	1731.6	1335.0	1223.3	1199.5	1210.7	1230.3	1233.0
25°	5077.4	4497.9	3160.1	2019.2	1382.5	1173.0	1118.5	1118.5	1143.7	1173.0	1174.4
27.5°	4926.6	4249.3	2731.4	1603.1	1157.6	1055.7	1037.5	1047.3	1082.2	1104.6	1106.0
30°	4802.3	4017.5	2326.5	1284.7	1018.0	962.1	958.0	974.7	999.8	1020.8	1022.2
32.5°	4708.8	3813.7	1948.0	1079.4	921.6	890.9	889.5	902.1	916.1	921.6	927.2
35°	4672.5	3644.7	1601.7	949.6	857.4	837.9	837.9	836.5	842.0	844.8	847.6
37.5°	4701.8	3514.8	1333.6	865.8	809.9	796.0	787.6	779.2	776.4	776.4	777.8
40°	4826.1	3446.4	1133.9	811.3	776.4	755.5	740.1	730.3	720.6	723.4	726.1
42.5°	5090.0	3459.0	998.4	775.0	747.1	717.8	695.4	684.3	677.3	685.6	684.3
45°	5510.3	3584.6	911.9	749.9	717.8	680.1	659.1	647.9	647.9	660.5	664.7
47.5°	6098.2	3824.8	865.8	730.3	695.4	650.7	629.8	621.4	624.2	645.2	646.5
50°	6816.0	4242.4	857.4	720.6	684.3	629.8	606.1	597.7	604.7	627.0	629.8
52.5°	7607.8	4780.0	897.9	722.0	674.5	617.2	586.5	573.9	580.9	599.1	604.7
55°	8546.2	5453.1	1002.6	727.5	660.5	610.2	572.5	544.6	553.0	565.6	567.0
57.5°	9504.1	6302.1	1187.0	728.9	649.3	597.7	548.8	512.5	512.5	520.9	525.1
60°	10674.3	7226.5	1429.9	730.3	650.7	579.5	516.7	476.2	470.6	474.8	476.2
62.5°	11836.1	8000.2	1470.4	726.1	664.7	561.4	481.8	439.9	430.1	428.7	425.9
65°	12348.6	7856.3	1205.1	706.6	680.1	550.2	453.8	405.0	388.2	382.6	382.6
67.5°	11513.6	6645.6	906.3	680.1	670.3	539.0	427.3	375.6	356.1	344.9	344.9
69°	10728.8	5911.1	814.1	661.9	645.2	520.9	410.6	360.3	336.5	324.0	319.8
70°	10122.7	5405.6	775.0	646.5	621.4	499.9	398.0	349.1	322.6	308.6	305.8
72.5°	8078.4	4241.0	678.7	587.9	529.2	420.3	353.3	314.2	289.1	273.7	269.5
75°	4655.7	2298.5	562.8	511.1	425.9	326.8	298.8	273.7	254.2	240.2	236.0
77.5°	1432.7	888.1	407.8	403.6	312.8	252.8	238.8	229.0	215.1	199.7	196.9
80°	603.3	452.4	276.5	272.3	208.1	176.0	171.8	170.4	164.8	152.2	148.0
82.5°	331.0	255.5	192.7	167.6	125.7	101.9	106.1	107.5	103.3	90.8	82.4
85°	162.0	139.6	93.6	75.4	57.3	36.3	34.9	41.9	39.1	27.9	30.7
87.5°	32.1	39.1	25.1	11.2	5.6	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)