

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: P454897

Luminaire Tested: **GALN-SA6A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454897
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-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 26879 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

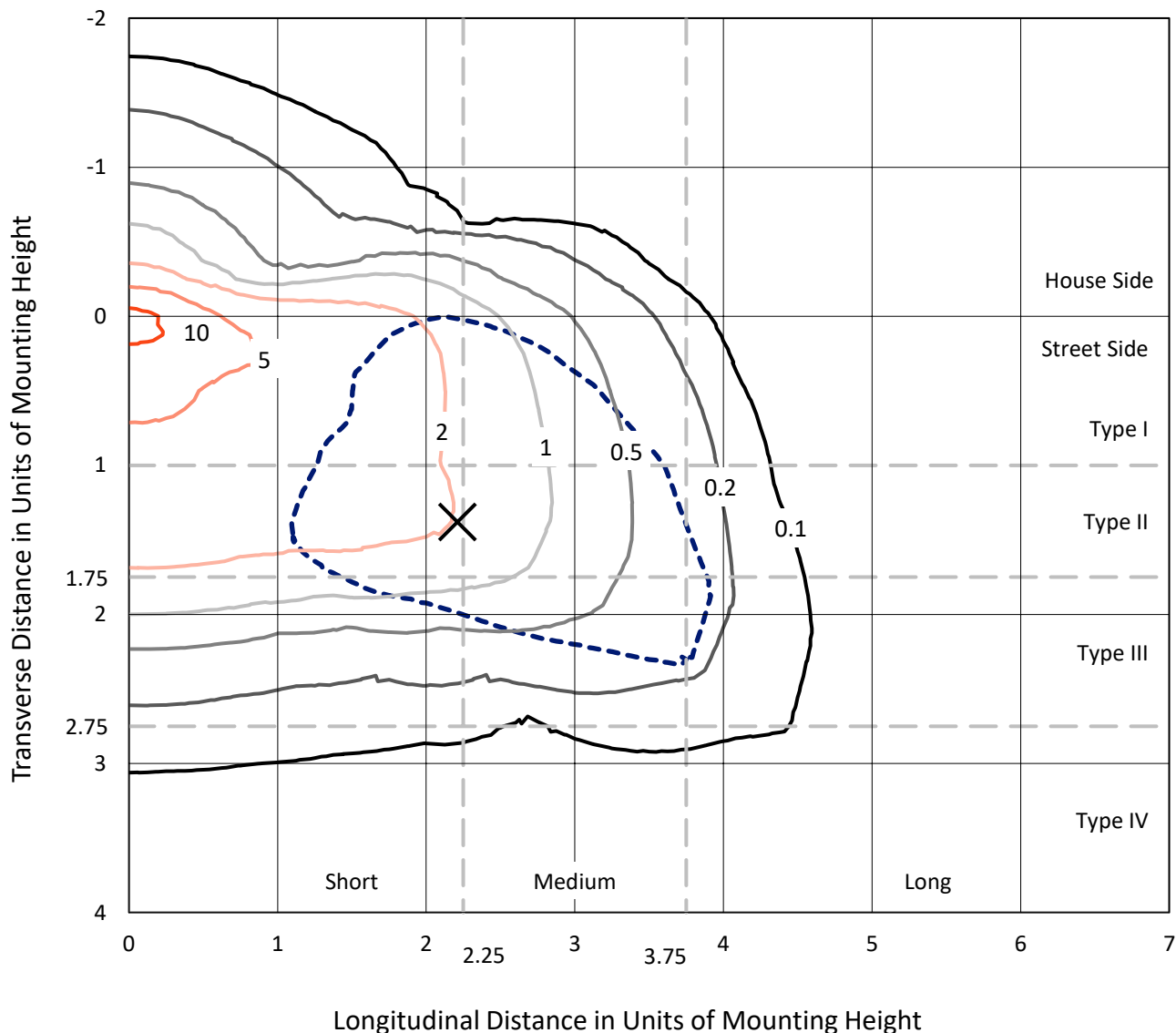
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

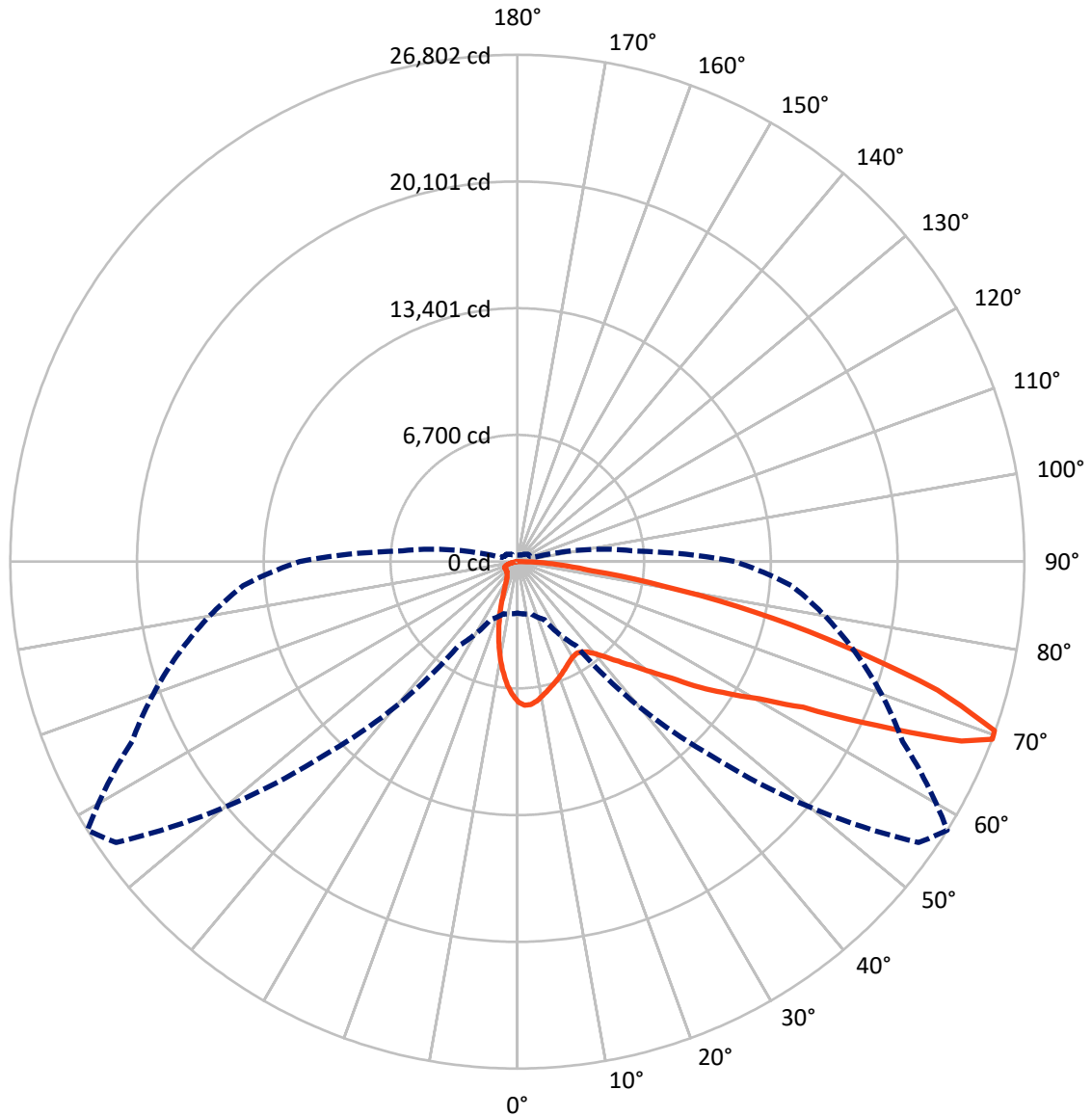
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3939.1	0.0	3939.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22939.9	0.0	22939.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	26879.0	0.0	26879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.8	2.3
10°-20°	1385.1	5.2
20°-30°	1789.6	6.7
30°-40°	2324.4	8.6
40°-50°	3379.3	12.6
50°-60°	5392.2	20.1
60°-70°	7203.3	26.8
70°-80°	4152.4	15.4
80°-90°	621.9	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°	26879.0	100.0
0°-180°	26879.0	100.0

Coefficient of Utilization



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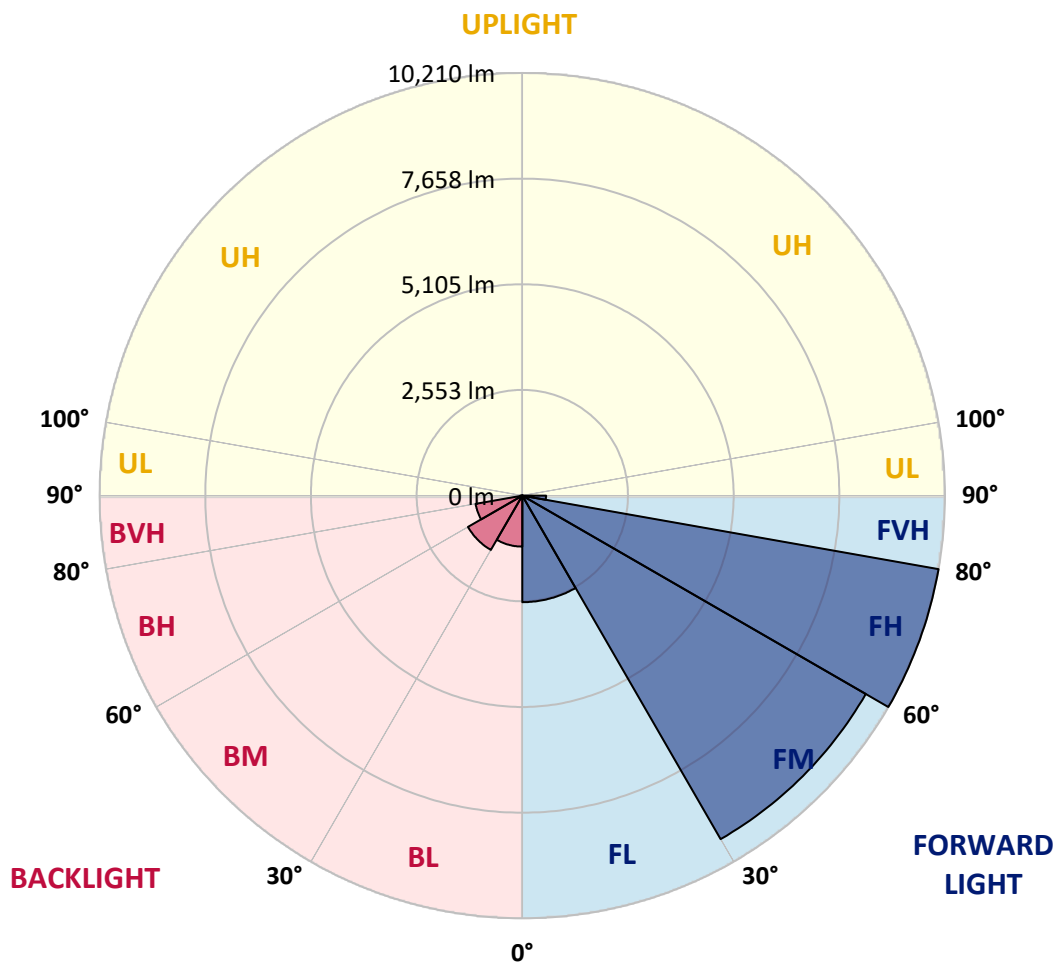
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.3	9.6			
FM	(30°-60°)	9581.0	35.6			
FH	(60°-80°)	10210.3	38.0			G4/12000
FVH	(80°-90°)	574.3	2.1			G4/750
BL	(0°-30°)	1231.2	4.6	B3/2500		
BM	(30°-60°)	1514.8	5.6	B2/2500		
BH	(60°-80°)	1145.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	47.6	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°	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8
2.5°	7703.6	7724.6	7718.6	7711.1	7699.1	7666.1	7612.2	7603.2	7568.7	7495.2	7403.8
5°	7585.2	7603.2	7604.7	7615.2	7630.2	7624.2	7585.2	7580.7	7529.7	7430.8	7277.9
7.5°	7178.9	7202.9	7255.4	7313.9	7366.3	7415.8	7427.8	7435.3	7403.8	7289.9	7086.0
10°	6721.7	6745.7	6769.7	6856.6	6985.6	7108.5	7210.4	7223.9	7231.4	7126.5	6877.6
12.5°	6215.1	6264.5	6315.5	6444.4	6616.8	6810.2	6990.1	7018.5	7069.5	6990.1	6697.7
15°	5784.8	5835.8	5909.2	6024.7	6233.0	6511.9	6765.2	6811.7	6912.1	6871.6	6529.9
17.5°	5486.5	5504.5	5555.5	5687.4	5912.2	6206.1	6544.8	6637.8	6798.2	6787.7	6385.9
20°	5251.2	5273.7	5305.1	5386.1	5619.9	5930.2	6339.5	6459.4	6676.8	6712.7	6243.5
22.5°	5152.2	5168.7	5164.2	5207.7	5366.6	5678.4	6131.1	6273.5	6568.8	6661.8	6111.6
25°	5158.2	5173.2	5150.7	5140.2	5234.7	5456.5	5913.7	6095.1	6481.9	6627.3	5991.7
27.5°	5258.7	5269.2	5227.2	5185.2	5192.7	5318.6	5733.9	5934.7	6408.4	6642.3	5891.3
30°	5393.6	5413.1	5386.1	5335.1	5279.6	5285.6	5618.4	5816.3	6374.0	6694.7	5843.3
32.5°	5567.5	5585.5	5573.5	5533.0	5461.0	5381.6	5589.9	5772.8	6376.9	6801.2	5832.8
35°	5750.3	5786.3	5805.8	5802.8	5744.4	5606.4	5702.4	5853.8	6448.9	6979.6	5894.3
37.5°	5957.2	5987.2	6071.1	6125.1	6071.1	5910.7	5955.7	6060.7	6607.8	7237.4	6029.2
40°	6158.1	6203.1	6326.0	6493.9	6472.9	6332.0	6342.5	6411.4	6888.1	7621.2	6293.0
42.5°	6368.0	6421.9	6636.3	6885.1	6934.6	6825.2	6853.6	6915.1	7286.9	8153.3	6745.7
45°	6637.8	6702.2	6966.1	7276.4	7471.3	7403.8	7484.7	7514.7	7820.5	8845.9	7342.3
47.5°	6985.6	7060.5	7385.8	7772.6	8048.4	8109.8	8250.8	8232.8	8481.6	9665.9	8115.8
50°	7571.7	7613.7	7921.0	8315.2	8694.5	8971.8	9124.7	9153.2	9301.6	10463.4	8980.8
52.5°	8268.7	8306.2	8528.1	8872.9	9348.1	9935.7	10313.4	10220.5	10256.5	11434.7	9992.7
55°	9052.7	9115.7	9256.6	9486.0	10102.1	10967.0	11725.6	11748.0	11349.3	12364.1	10962.5
57.5°	9659.9	9766.3	10007.6	10334.4	11115.4	12113.8	13133.2	13148.1	12638.5	13356.5	12032.9
60°	9354.1	9480.0	10031.6	10827.6	12445.1	14115.0	14815.1	14729.6	13893.2	14486.8	13338.5
62.5°	8034.9	8057.4	8859.4	10103.6	12854.3	16792.3	17318.5	16957.2	15567.6	15919.9	14665.2
65°	5200.2	5347.1	5982.7	7726.1	11509.7	18277.9	21704.7	20869.7	17915.1	17546.4	15776.0
67.5°	3282.9	3245.4	3509.3	4411.7	7916.5	16969.2	25447.8	25315.9	20985.2	18573.2	15510.6
69°	2722.3	2764.2	2854.2	3381.9	5447.5	14488.3	25890.1	26801.5	22473.7	18492.3	14546.8
70°	2468.9	2488.4	2582.9	2998.1	4203.3	12134.8	25164.5	26761.0	23058.4	18153.5	13848.2
72.5°	1959.3	1957.8	2119.7	2494.4	3142.0	6927.1	20662.9	23233.7	22404.8	16576.5	11442.2
75°	1488.6	1512.5	1690.9	2110.7	2894.7	3785.1	14419.3	17892.6	17894.1	13092.7	7140.0
77.5°	1073.3	1088.3	1296.7	1771.9	2726.8	3068.6	9604.4	12833.3	12064.3	5999.2	2244.1
80°	703.1	712.0	870.9	1403.1	2458.4	2894.7	5694.9	7855.0	5690.4	1592.0	742.0
82.5°	385.3	430.2	532.2	908.4	1972.7	2674.3	3461.3	3975.5	2134.6	709.0	386.8
85°	193.4	205.4	299.8	530.7	1289.2	2212.6	2410.5	2280.1	1101.8	352.3	200.9
87.5°	57.0	72.0	124.4	205.4	523.2	1152.8	1341.6	1203.7	424.2	127.4	42.0
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°	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8	7427.8
2.5°	7366.3	7339.3	7219.4	7111.5	7012.5	6907.6	6819.2	6741.2	6748.7	6750.2	6670.8
5°	7198.4	7137.0	6909.1	6696.2	6516.4	6288.5	6093.6	5967.7	5904.7	5820.8	5850.8
7.5°	6970.6	6852.1	6535.8	6182.1	5850.8	5555.5	5234.7	5014.3	4873.4	4737.0	4755.0
10°	6735.2	6544.8	6084.6	5616.9	5188.2	4716.0	4306.8	3956.0	3695.2	3597.7	3533.3
12.5°	6493.9	6243.5	5658.9	5036.8	4444.7	3879.5	3299.4	2923.1	2635.3	2482.4	2501.9
15°	6273.5	5969.2	5215.2	4456.7	3687.7	3014.6	2436.0	2077.7	1876.8	1834.8	1858.8
17.5°	6069.6	5670.9	4800.0	3893.0	2995.1	2260.6	1830.3	1628.0	1547.0	1524.5	1523.0
20°	5859.8	5417.6	4333.7	3290.4	2334.0	1752.4	1502.0	1407.6	1392.6	1401.6	1403.1
22.5°	5646.9	5104.3	3854.1	2692.3	1858.8	1433.1	1313.2	1287.7	1299.7	1320.7	1323.7
25°	5450.5	4828.4	3392.3	2167.6	1484.1	1259.2	1200.7	1200.7	1227.7	1259.2	1260.7
27.5°	5288.6	4561.6	2932.1	1720.9	1242.7	1133.3	1113.8	1124.3	1161.8	1185.7	1187.2
30°	5155.2	4312.8	2497.4	1379.1	1092.8	1032.8	1028.3	1046.3	1073.3	1095.8	1097.3
32.5°	5054.8	4093.9	2091.2	1158.8	989.4	956.4	954.9	968.4	983.4	989.4	995.4
35°	5015.8	3912.5	1719.4	1019.4	920.4	899.4	899.4	897.9	903.9	906.9	909.9
37.5°	5047.3	3773.1	1431.6	929.4	869.4	854.5	845.5	836.5	833.5	833.5	835.0
40°	5180.7	3699.7	1217.2	870.9	833.5	811.0	794.5	784.0	773.5	776.5	779.5
42.5°	5464.0	3713.1	1071.8	832.0	802.0	770.5	746.5	734.5	727.0	736.0	734.5
45°	5915.2	3848.1	978.9	805.0	770.5	730.0	707.6	695.6	695.6	709.0	713.5
47.5°	6546.3	4105.9	929.4	784.0	746.5	698.6	676.1	667.1	670.1	692.6	694.1
50°	7316.9	4554.1	920.4	773.5	734.5	676.1	650.6	641.6	649.1	673.1	676.1
52.5°	8166.8	5131.2	963.9	775.0	724.0	662.6	629.6	616.1	623.6	643.1	649.1
55°	9174.2	5853.8	1076.3	781.0	709.0	655.1	614.6	584.6	593.6	607.1	608.6
57.5°	10202.5	6765.2	1274.2	782.5	697.1	641.6	589.1	550.2	550.2	559.1	563.6
60°	11458.7	7757.6	1535.0	784.0	698.6	622.1	554.6	511.2	505.2	509.7	511.2
62.5°	12705.9	8588.0	1578.5	779.5	713.5	602.6	517.2	472.2	461.7	460.2	457.2
65°	13256.1	8433.6	1293.7	758.5	730.0	590.6	487.2	434.7	416.7	410.7	410.7
67.5°	12359.6	7134.0	972.9	730.0	719.5	578.6	458.7	403.2	382.3	370.3	370.3
69°	11517.2	6345.5	873.9	710.5	692.6	559.1	440.7	386.8	361.3	347.8	343.3
70°	10866.6	5802.8	832.0	694.1	667.1	536.7	427.2	374.8	346.3	331.3	328.3
72.5°	8672.0	4552.6	728.5	631.1	568.1	451.2	379.3	337.3	310.3	293.8	289.3
75°	4997.8	2467.4	604.1	548.7	457.2	350.8	320.8	293.8	272.8	257.8	253.3
77.5°	1538.0	953.4	437.7	433.2	335.8	271.3	256.3	245.8	230.9	214.4	211.4
80°	647.6	485.7	296.8	292.3	223.4	188.9	184.4	182.9	176.9	163.4	158.9
82.5°	355.3	274.3	206.9	179.9	134.9	109.4	113.9	115.4	110.9	97.4	88.4
85°	173.9	149.9	100.4	80.9	61.5	39.0	37.5	45.0	42.0	30.0	33.0
87.5°	34.5	42.0	27.0	12.0	6.0	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)