

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: P455796

Luminaire Tested: **GALN-SA7A-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455796
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-SA7A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 28752 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

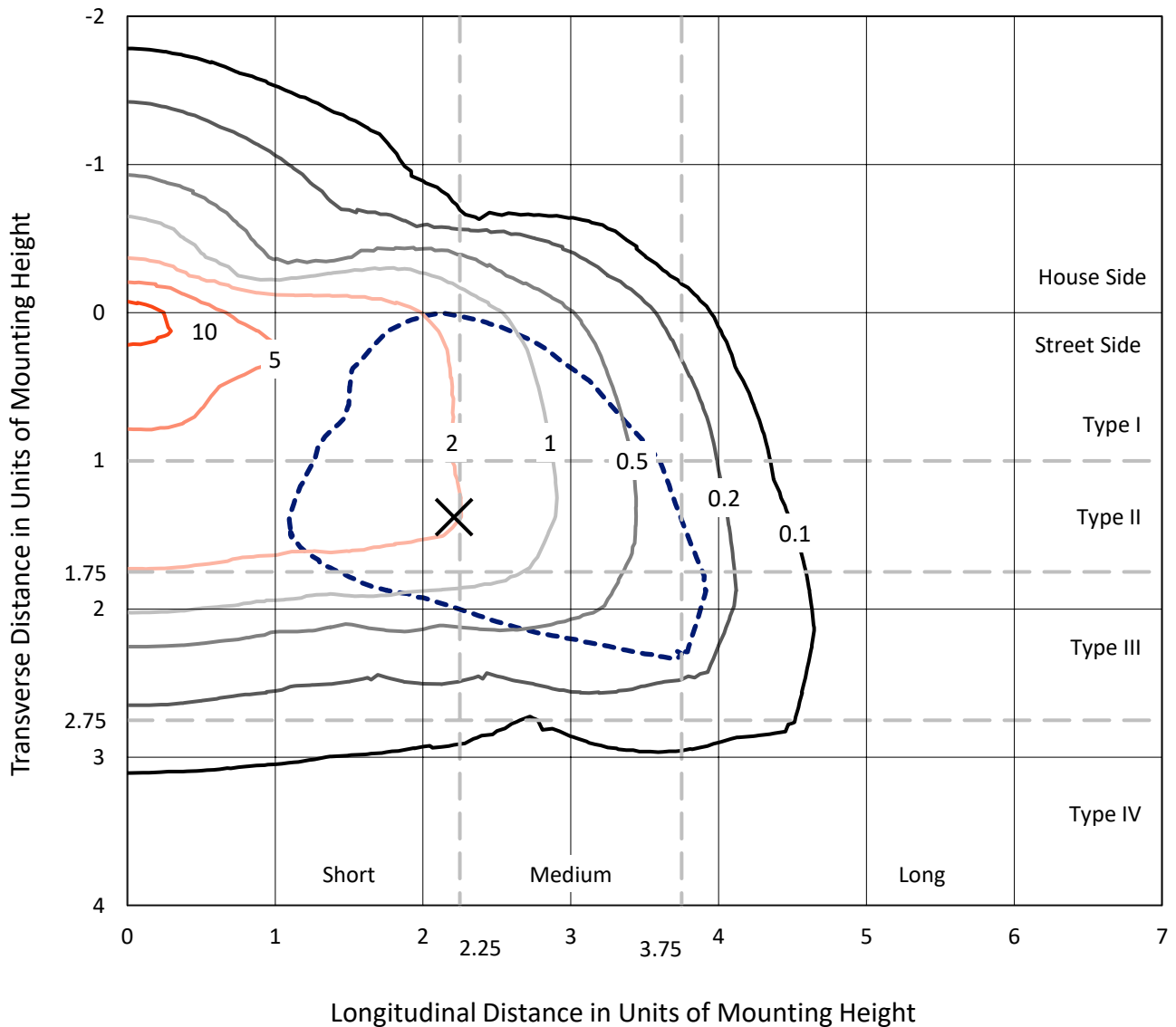
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

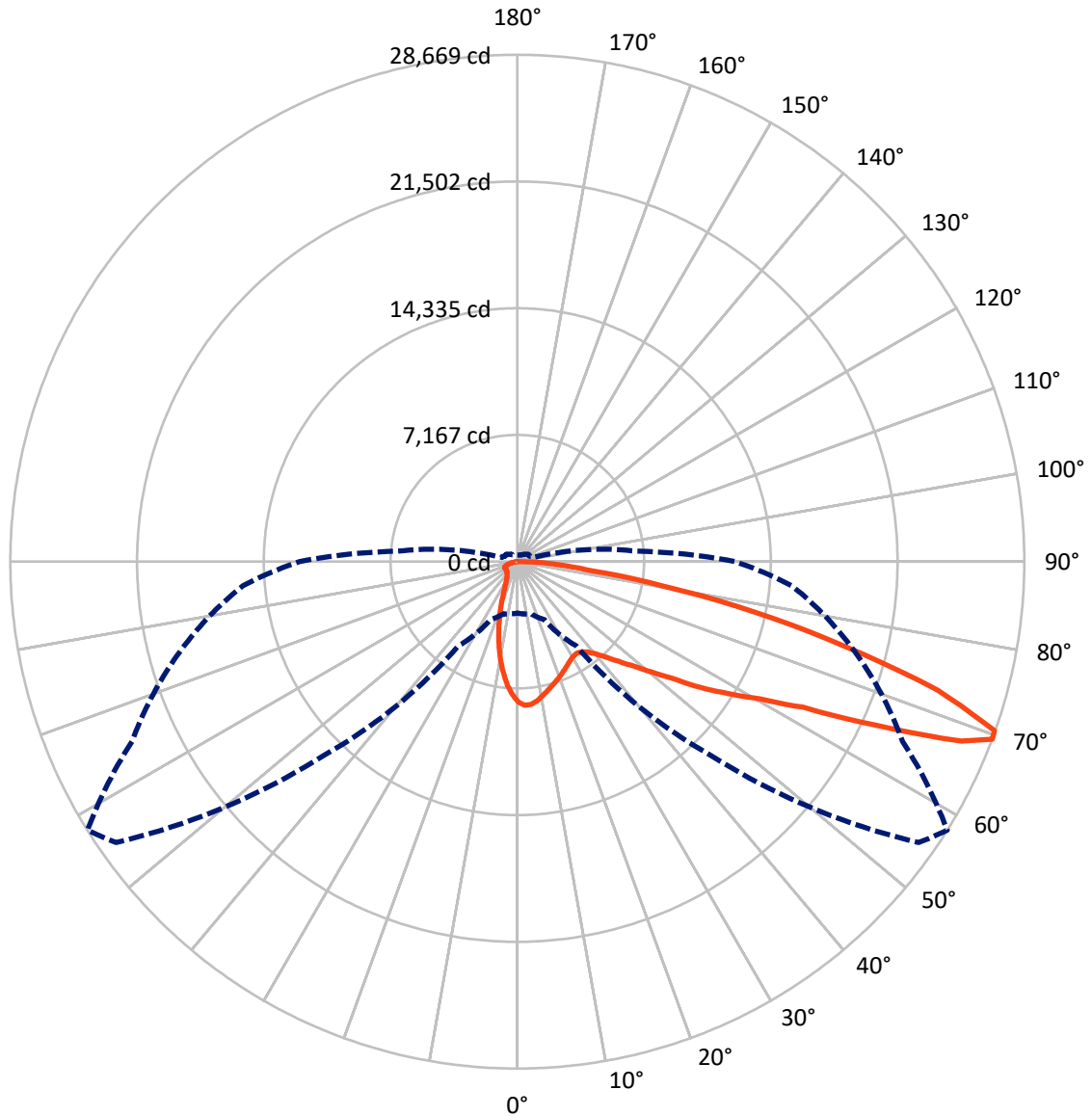
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	4213.6	0.0	4213.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24538.4	0.0	24538.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	28752.0	0.0	28752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.8	2.3
10°-20°	1481.7	5.2
20°-30°	1914.3	6.7
30°-40°	2486.3	8.6
40°-50°	3614.7	12.6
50°-60°	5767.9	20.1
60°-70°	7705.3	26.8
70°-80°	4441.8	15.4
80°-90°	665.3	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°	28752.0	100.0
0°-180°	28752.0	100.0

Coefficient of Utilization



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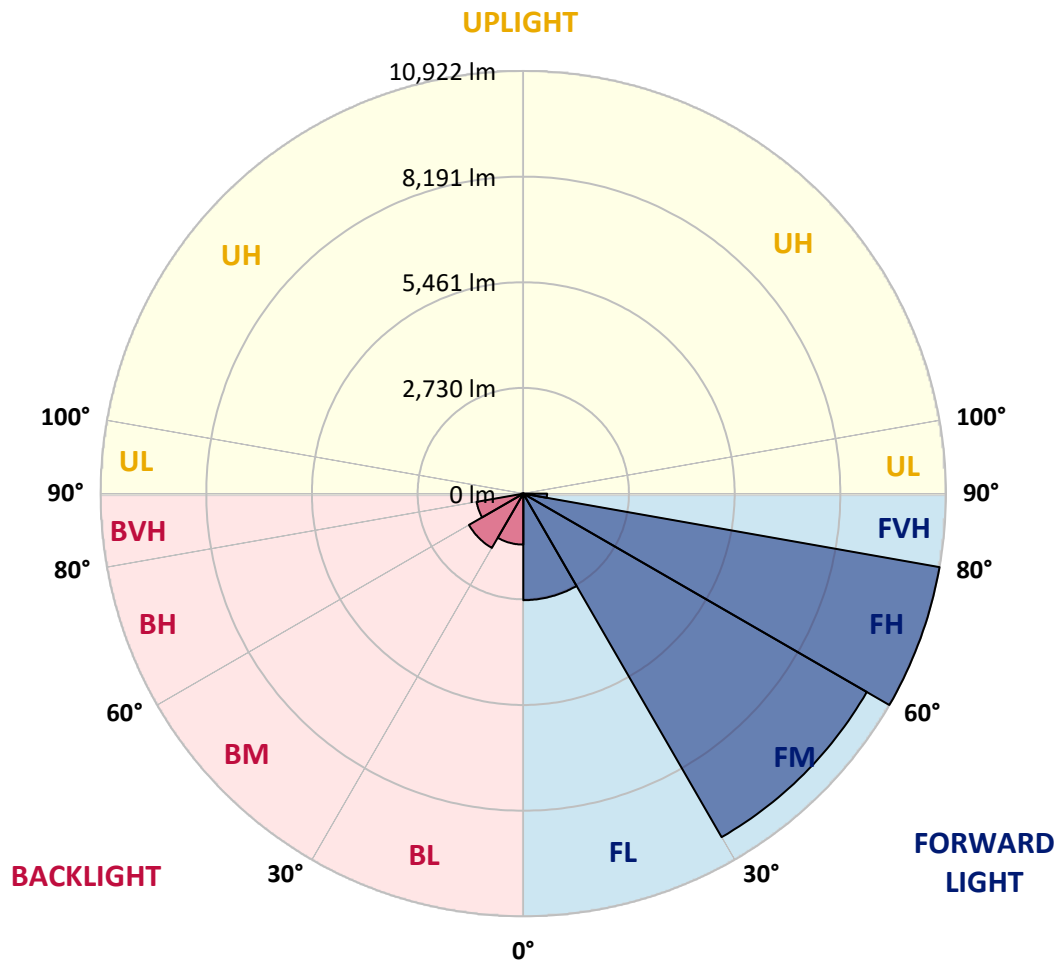
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.7	9.6			
FM (30°-60°)	10248.6	35.6			
FH (60°-80°)	10921.8	38.0			G4/12000
FVH (80°-90°)	614.3	2.1			G4/750
BL (0°-30°)	1317.0	4.6	B3/2500		
BM (30°-60°)	1620.4	5.6	B2/2500		
BH (60°-80°)	1225.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	51.0	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°	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4
2.5°	8240.4	8262.9	8256.4	8248.4	8235.6	8200.3	8142.6	8133.0	8096.1	8017.5	7919.7
5°	8113.7	8133.0	8134.6	8145.8	8161.8	8155.4	8113.7	8108.9	8054.4	7948.6	7785.0
7.5°	7679.2	7704.8	7761.0	7823.5	7879.6	7932.5	7945.4	7953.4	7919.7	7797.8	7579.8
10°	7190.1	7215.8	7241.4	7334.4	7472.3	7603.8	7712.9	7727.3	7735.3	7623.1	7356.9
12.5°	6648.1	6701.0	6755.6	6893.5	7077.9	7284.7	7477.1	7507.6	7562.1	7477.1	7164.5
15°	6187.9	6242.4	6321.0	6444.5	6667.4	6965.6	7236.6	7286.3	7393.8	7350.5	6984.9
17.5°	5868.8	5888.1	5942.6	6083.7	6324.2	6638.5	7000.9	7100.3	7271.9	7260.7	6830.9
20°	5617.1	5641.1	5674.8	5761.4	6011.5	6343.5	6781.2	6909.5	7142.0	7180.5	6678.6
22.5°	5511.2	5528.9	5524.1	5570.6	5740.5	6074.1	6558.3	6710.7	7026.6	7126.0	6537.5
25°	5517.7	5533.7	5509.6	5498.4	5599.4	5836.8	6325.8	6519.9	6933.6	7089.1	6409.2
27.5°	5625.1	5636.3	5591.4	5546.5	5554.5	5689.2	6133.4	6348.3	6855.0	7105.1	6301.8
30°	5769.4	5790.3	5761.4	5706.9	5647.5	5654.0	6009.9	6221.6	6818.1	7161.3	6250.5
32.5°	5955.4	5974.7	5961.8	5918.5	5841.6	5756.6	5979.5	6175.1	6821.3	7275.1	6239.2
35°	6151.0	6189.5	6210.4	6207.2	6144.6	5997.1	6099.7	6261.7	6898.3	7465.9	6305.0
37.5°	6372.3	6404.4	6494.2	6551.9	6494.2	6322.6	6370.7	6483.0	7068.3	7741.7	6449.3
40°	6587.2	6635.3	6766.8	6946.4	6923.9	6773.2	6784.4	6858.2	7368.1	8152.2	6731.5
42.5°	6811.7	6869.4	7098.7	7364.9	7417.8	7300.8	7331.2	7397.0	7794.6	8721.5	7215.8
45°	7100.3	7169.3	7451.5	7783.4	7991.9	7919.7	8006.3	8038.4	8365.5	9462.3	7854.0
47.5°	7472.3	7552.5	7900.5	8314.2	8609.2	8675.0	8825.7	8806.5	9072.6	10339.4	8681.4
50°	8099.3	8144.2	8472.9	8894.6	9300.3	9597.0	9760.5	9791.0	9949.8	11192.5	9606.6
52.5°	8844.9	8885.0	9122.3	9491.1	9999.5	10628.0	11032.1	10932.7	10971.2	12231.5	10689.0
55°	9683.6	9750.9	9901.6	10147.0	10806.0	11731.2	12542.6	12566.7	12140.1	13225.7	11726.4
57.5°	10333.0	10446.8	10705.0	11054.6	11890.0	12957.9	14048.3	14064.3	13519.2	14287.2	12871.3
60°	10005.9	10140.6	10730.7	11582.1	13312.3	15098.6	15847.4	15756.0	14861.3	15496.3	14268.0
62.5°	8594.8	8618.8	9476.7	10807.6	13750.1	17962.5	18525.3	18138.9	16652.4	17029.2	15687.1
65°	5562.6	5719.7	6399.6	8264.5	12311.7	19551.5	23217.2	22324.0	19163.5	18769.0	16875.3
67.5°	3511.7	3471.6	3753.8	4719.1	8468.1	18151.7	27221.1	27080.0	22447.5	19867.4	16591.5
69°	2912.0	2956.9	3053.1	3617.5	5827.1	15497.9	27694.1	28669.1	24039.8	19780.8	15560.4
70°	2641.0	2661.8	2762.8	3207.0	4496.2	12980.4	26918.0	28625.8	24665.1	19418.5	14813.2
72.5°	2095.8	2094.2	2267.4	2668.2	3360.9	7409.8	22102.7	24852.7	23966.0	17731.6	12239.6
75°	1592.3	1617.9	1808.8	2257.7	3096.4	4048.9	15424.1	19139.4	19141.0	14005.0	7637.5
77.5°	1148.1	1164.1	1387.0	1895.3	2916.8	3282.4	10273.7	13727.6	12905.0	6417.2	2400.4
80°	752.0	761.7	931.6	1500.9	2629.7	3096.4	6091.7	8402.4	6086.9	1702.9	793.7
82.5°	412.1	460.2	569.2	971.7	2110.2	2860.7	3702.5	4252.5	2283.4	758.5	413.7
85°	206.9	219.7	320.7	567.6	1379.0	2366.8	2578.4	2438.9	1178.6	376.8	214.9
87.5°	60.9	77.0	133.1	219.7	559.6	1233.1	1435.1	1287.6	453.8	136.3	44.9
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°	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4	7945.4
2.5°	7879.6	7850.8	7722.5	7607.0	7501.2	7389.0	7294.3	7211.0	7219.0	7220.6	7135.6
5°	7700.0	7634.3	7390.6	7162.9	6970.4	6726.7	6518.2	6383.6	6316.2	6226.4	6258.5
7.5°	7456.3	7329.6	6991.3	6612.9	6258.5	5942.6	5599.4	5363.7	5213.0	5067.1	5086.3
10°	7204.5	7000.9	6508.6	6008.3	5549.7	5044.6	4606.9	4231.7	3952.6	3848.4	3779.5
12.5°	6946.4	6678.6	6053.2	5387.8	4754.4	4149.9	3529.3	3126.8	2819.0	2655.4	2676.3
15°	6710.7	6385.2	5578.6	4767.2	3944.6	3224.6	2605.7	2222.5	2007.6	1962.7	1988.3
17.5°	6492.6	6066.1	5134.4	4164.3	3203.8	2418.1	1957.9	1741.4	1654.8	1630.8	1629.2
20°	6268.1	5795.1	4635.7	3519.7	2496.7	1874.5	1606.7	1505.7	1489.7	1499.3	1500.9
22.5°	6040.4	5459.9	4122.6	2879.9	1988.3	1533.0	1404.7	1377.4	1390.2	1412.7	1415.9
25°	5830.3	5164.9	3628.7	2318.7	1587.5	1346.9	1284.4	1284.4	1313.3	1346.9	1348.5
27.5°	5657.2	4879.5	3136.5	1840.8	1329.3	1212.3	1191.4	1202.6	1242.7	1268.4	1270.0
30°	5514.5	4613.3	2671.4	1475.2	1169.0	1104.8	1100.0	1119.2	1148.1	1172.2	1173.8
32.5°	5407.0	4379.2	2236.9	1239.5	1058.3	1023.0	1021.4	1035.9	1051.9	1058.3	1064.7
35°	5365.3	4185.1	1839.2	1090.4	984.6	962.1	962.1	960.5	966.9	970.1	973.3
37.5°	5399.0	4036.0	1531.3	994.2	930.0	914.0	904.4	894.8	891.5	891.5	893.2
40°	5541.7	3957.5	1302.0	931.6	891.5	867.5	849.9	838.6	827.4	830.6	833.8
42.5°	5844.8	3971.9	1146.5	889.9	857.9	824.2	798.5	785.7	777.7	787.3	785.7
45°	6327.4	4116.2	1047.1	861.1	824.2	780.9	756.9	744.0	744.0	758.5	763.3
47.5°	7002.5	4392.0	994.2	838.6	798.5	747.2	723.2	713.6	716.8	740.8	742.4
50°	7826.7	4871.4	984.6	827.4	785.7	723.2	695.9	686.3	694.3	720.0	723.2
52.5°	8735.9	5488.8	1031.1	829.0	774.5	708.7	673.5	659.0	667.1	687.9	694.3
55°	9813.5	6261.7	1151.3	835.4	758.5	700.7	657.4	625.4	635.0	649.4	651.0
57.5°	10913.5	7236.6	1363.0	837.0	745.6	686.3	630.2	588.5	588.5	598.1	602.9
60°	12257.2	8298.1	1642.0	838.6	747.2	665.5	593.3	546.8	540.4	545.2	546.8
62.5°	13591.3	9186.5	1688.5	833.8	763.3	644.6	553.2	505.1	493.9	492.3	489.1
65°	14179.8	9021.3	1383.8	811.4	780.9	631.8	521.1	465.0	445.8	439.4	439.4
67.5°	13220.9	7631.1	1040.7	780.9	769.7	619.0	490.7	431.3	408.9	396.1	396.1
69°	12319.7	6787.6	934.8	760.1	740.8	598.1	471.4	413.7	386.4	372.0	367.2
70°	11623.8	6207.2	889.9	742.4	713.6	574.1	457.0	400.9	370.4	354.4	351.2
72.5°	9276.3	4869.8	779.3	675.1	607.7	482.7	405.7	360.8	331.9	314.3	309.5
75°	5346.1	2639.4	646.2	586.9	489.1	375.2	343.2	314.3	291.8	275.8	271.0
77.5°	1645.2	1019.8	468.2	463.4	359.2	290.2	274.2	263.0	246.9	229.3	226.1
80°	692.7	519.5	317.5	312.7	238.9	202.0	197.2	195.6	189.2	174.8	170.0
82.5°	380.0	293.4	221.3	192.4	144.3	117.1	121.9	123.5	118.7	104.2	94.6
85°	186.0	160.4	107.4	86.6	65.7	41.7	40.1	48.1	44.9	32.1	35.3
87.5°	36.9	44.9	28.9	12.8	6.4	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)