

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: P458812

Luminaire Tested: **GALN-SA3C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458812
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-SA3C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 19378 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

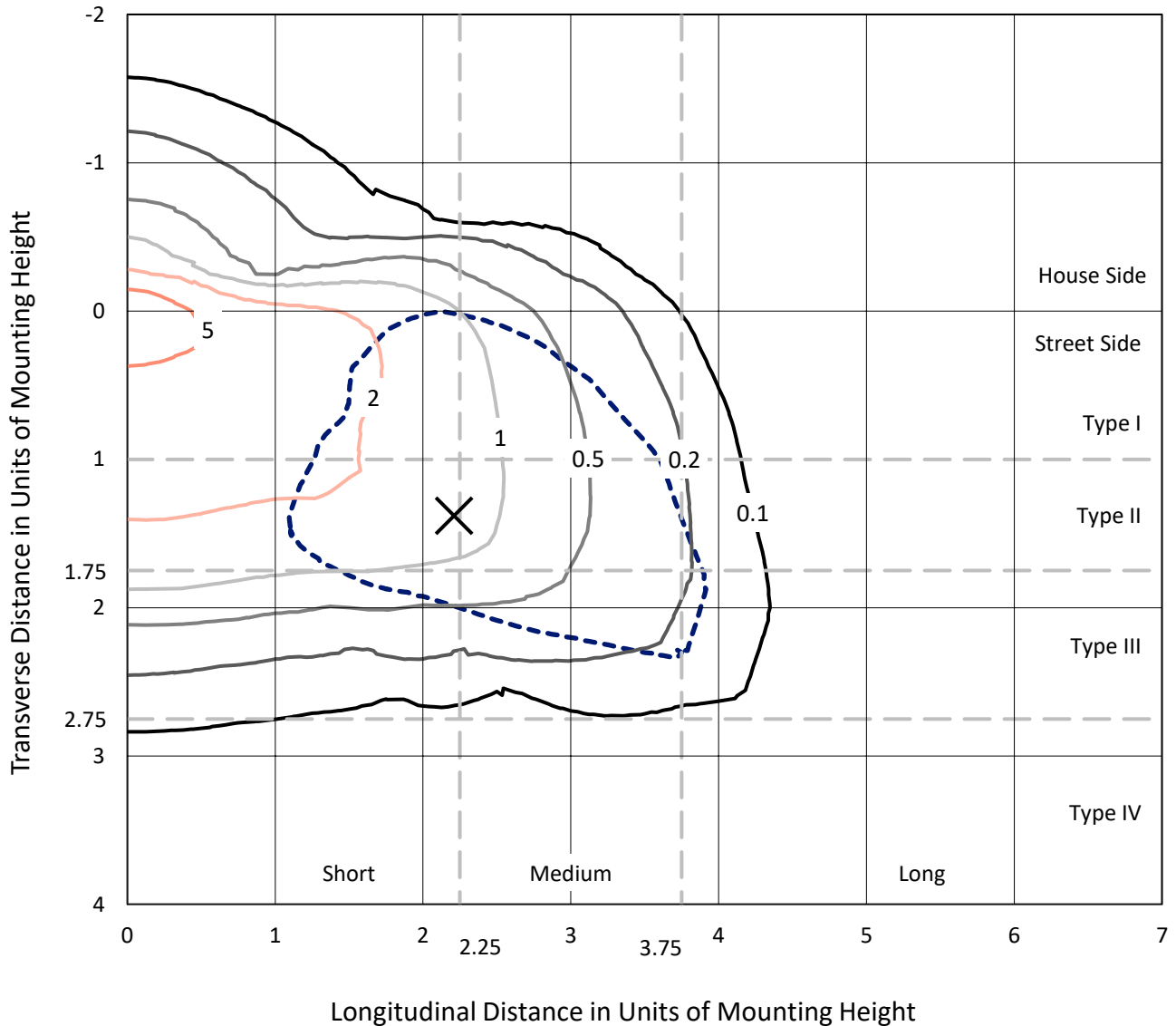
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

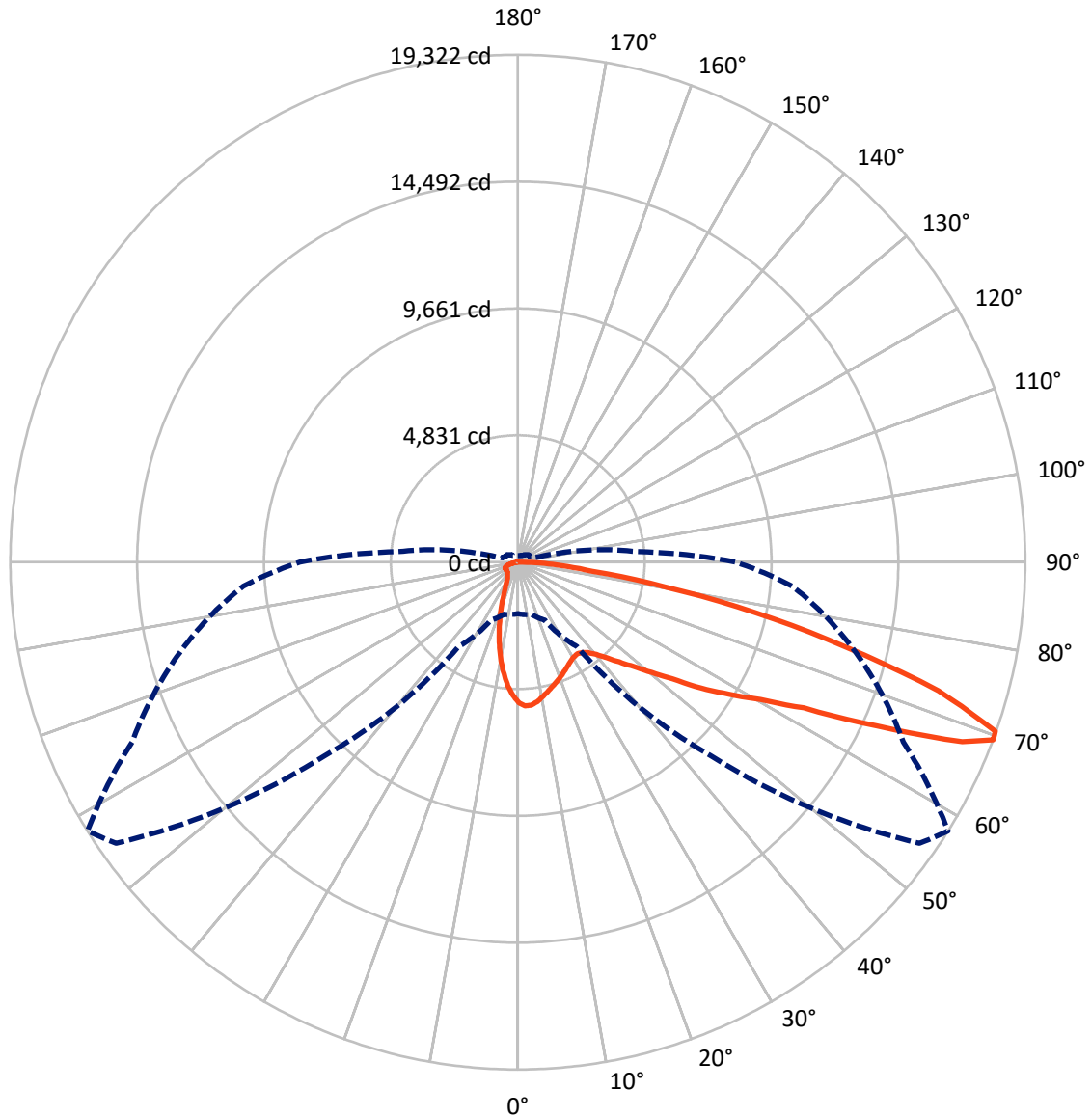
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	2839.8	0.0	2839.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16538.2	0.0	16538.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	19378.0	0.0	19378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.8	2.3
10°-20°	998.6	5.2
20°-30°	1290.2	6.7
30°-40°	1675.7	8.6
40°-50°	2436.2	12.6
50°-60°	3887.4	20.1
60°-70°	5193.1	26.8
70°-80°	2993.6	15.4
80°-90°	448.4	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°	19378.0	100.0
0°-180°	19378.0	100.0

Coefficient of Utilization

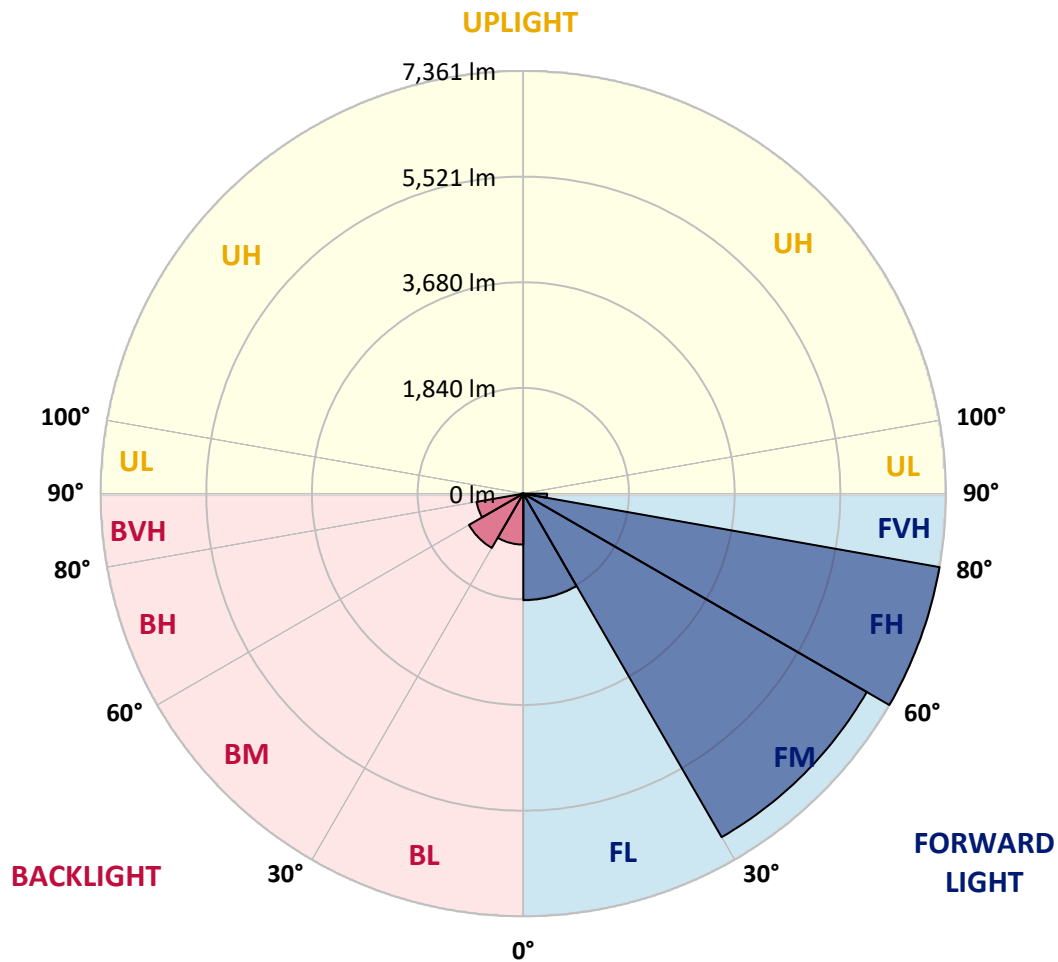


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.9	9.6			
FM (30°-60°)	6907.2	35.6			
FH (60°-80°)	7361.0	38.0			G3/7500
FVH (80°-90°)	414.0	2.1			G3/500
BL (0°-30°)	887.6	4.6	B2/1000		
BM (30°-60°)	1092.1	5.6	B2/2500		
BH (60°-80°)	825.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9
2.5°	5553.8	5568.9	5564.6	5559.2	5550.6	5526.8	5487.9	5481.4	5456.5	5403.6	5337.7
5°	5468.4	5481.4	5482.5	5490.0	5500.8	5496.5	5468.4	5465.2	5428.4	5357.1	5246.9
7.5°	5175.5	5192.8	5230.7	5272.8	5310.6	5346.3	5354.9	5360.3	5337.7	5255.5	5108.5
10°	4845.9	4863.2	4880.5	4943.2	5036.1	5124.8	5198.2	5208.0	5213.4	5137.7	4958.3
12.5°	4480.6	4516.3	4553.1	4646.0	4770.3	4909.7	5039.4	5059.9	5096.7	5039.4	4828.6
15°	4170.5	4207.2	4260.2	4343.4	4493.6	4694.6	4877.3	4910.8	4983.2	4954.0	4707.6
17.5°	3955.4	3968.4	4005.1	4100.2	4262.3	4474.2	4718.4	4785.4	4901.0	4893.5	4603.8
20°	3785.7	3802.0	3824.7	3883.0	4051.6	4275.3	4570.3	4656.8	4813.5	4839.4	4501.2
22.5°	3714.4	3726.3	3723.1	3754.4	3869.0	4093.7	4420.1	4522.8	4735.7	4802.7	4406.1
25°	3718.7	3729.5	3713.3	3705.8	3773.9	3933.8	4263.4	4394.2	4673.0	4777.8	4319.6
27.5°	3791.1	3798.7	3768.5	3738.2	3743.6	3834.4	4133.7	4278.6	4620.1	4788.6	4247.2
30°	3888.4	3902.5	3883.0	3846.3	3806.3	3810.6	4050.5	4193.2	4595.2	4826.5	4212.6
32.5°	4013.8	4026.7	4018.1	3988.9	3937.0	3879.8	4030.0	4161.8	4597.4	4903.2	4205.1
35°	4145.6	4171.6	4185.6	4183.4	4141.3	4041.9	4111.0	4220.2	4649.2	5031.8	4249.4
37.5°	4294.8	4316.4	4376.9	4415.8	4376.9	4261.3	4293.7	4369.3	4763.8	5217.7	4346.6
40°	4439.6	4472.0	4560.6	4681.7	4666.5	4564.9	4572.5	4622.2	4965.9	5494.4	4536.8
42.5°	4590.9	4629.8	4784.3	4963.7	4999.4	4920.5	4941.0	4985.3	5253.4	5878.0	4863.2
45°	4785.4	4831.9	5022.1	5245.8	5386.3	5337.7	5396.0	5417.6	5638.1	6377.3	5293.3
47.5°	5036.1	5090.2	5324.7	5603.5	5802.4	5846.7	5948.3	5935.3	6114.7	6968.5	5851.0
50°	5458.7	5489.0	5710.5	5994.7	6268.1	6468.1	6578.3	6598.8	6705.8	7543.4	6474.6
52.5°	5961.2	5988.2	6148.2	6396.8	6739.3	7163.0	7435.3	7368.3	7394.3	8243.7	7204.0
55°	6526.4	6571.8	6673.4	6838.8	7282.9	7906.5	8453.4	8469.6	8182.1	8913.7	7903.3
57.5°	6964.1	7040.9	7214.9	7450.5	8013.5	8733.3	9468.1	9479.0	9111.5	9629.2	8674.9
60°	6743.7	6834.4	7232.1	7806.0	8972.1	10176.0	10680.7	10619.1	10016.1	10444.0	9616.2
62.5°	5792.6	5808.8	6387.0	7284.0	9267.1	12106.2	12485.5	12225.1	11223.2	11477.2	10572.6
65°	3749.0	3854.9	4313.1	5570.0	8297.7	13177.2	15647.7	15045.7	12915.6	12649.8	11373.4
67.5°	2366.8	2339.7	2530.0	3180.5	5707.3	12233.7	18346.2	18251.1	15128.9	13390.1	11182.2
69°	1962.6	1992.8	2057.7	2438.1	3927.3	10445.1	18665.0	19322.1	16202.1	13331.7	10487.3
70°	1779.9	1794.0	1862.1	2161.4	3030.3	8748.4	18142.0	19292.9	16623.6	13087.5	9983.6
72.5°	1412.5	1411.4	1528.1	1798.3	2265.2	4994.0	14896.6	16750.0	16152.4	11950.6	8249.1
75°	1073.2	1090.4	1219.0	1521.6	2086.9	2728.8	10395.4	12899.4	12900.5	9439.0	5147.4
77.5°	773.8	784.6	934.8	1277.4	1965.8	2212.2	6924.1	9252.0	8697.6	4325.0	1617.8
80°	506.9	513.3	627.9	1011.5	1772.4	2086.9	4105.6	5662.9	4102.4	1147.7	535.0
82.5°	277.7	310.2	383.7	654.9	1422.2	1928.0	2495.4	2866.1	1538.9	511.2	278.8
85°	139.4	148.1	216.1	382.6	929.4	1595.1	1737.8	1643.8	794.3	254.0	144.8
87.5°	41.1	51.9	89.7	148.1	377.2	831.1	967.2	867.8	305.8	91.9	30.3
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°	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9
2.5°	5310.6	5291.2	5204.7	5126.9	5055.6	4979.9	4916.2	4860.0	4865.4	4866.5	4809.2
5°	5189.6	5145.3	4981.0	4827.6	4697.9	4533.6	4393.1	4302.3	4256.9	4196.4	4218.0
7.5°	5025.3	4940.0	4711.9	4456.9	4218.0	4005.1	3773.9	3615.0	3513.4	3415.1	3428.0
10°	4855.7	4718.4	4386.6	4049.4	3740.4	3399.9	3104.9	2852.0	2664.0	2593.7	2547.2
12.5°	4681.7	4501.2	4079.7	3631.2	3204.3	2796.9	2378.7	2107.4	1899.9	1789.7	1803.7
15°	4522.8	4303.4	3759.8	3213.0	2658.6	2173.3	1756.2	1497.9	1353.1	1322.8	1340.1
17.5°	4375.8	4088.3	3460.5	2806.6	2159.3	1629.7	1319.6	1173.7	1115.3	1099.1	1098.0
20°	4224.5	3905.7	3124.3	2372.2	1682.7	1263.4	1082.9	1014.8	1004.0	1010.5	1011.5
22.5°	4071.1	3679.8	2778.5	1941.0	1340.1	1033.2	946.7	928.3	937.0	952.1	954.3
25°	3929.5	3481.0	2445.7	1562.7	1069.9	907.8	865.7	865.7	885.1	907.8	908.9
27.5°	3812.8	3288.6	2113.9	1240.7	895.9	817.0	803.0	810.5	837.6	854.8	855.9
30°	3716.6	3109.2	1800.5	994.3	787.8	744.6	741.4	754.3	773.8	790.0	791.1
32.5°	3644.2	2951.4	1507.6	835.4	713.3	689.5	688.4	698.1	708.9	713.3	717.6
35°	3616.1	2820.7	1239.6	734.9	663.6	648.4	648.4	647.3	651.7	653.8	656.0
37.5°	3638.8	2720.2	1032.1	670.0	626.8	616.0	609.5	603.0	600.9	600.9	602.0
40°	3735.0	2667.2	877.5	627.9	600.9	584.7	572.8	565.2	557.6	559.8	562.0
42.5°	3939.2	2676.9	772.7	599.8	578.2	555.5	538.2	529.6	524.1	530.6	529.6
45°	4264.5	2774.2	705.7	580.3	555.5	526.3	510.1	501.5	501.5	511.2	514.4
47.5°	4719.5	2960.1	670.0	565.2	538.2	503.6	487.4	480.9	483.1	499.3	500.4
50°	5275.0	3283.2	663.6	557.6	529.6	487.4	469.0	462.5	467.9	485.2	487.4
52.5°	5887.7	3699.3	694.9	558.7	522.0	477.7	453.9	444.2	449.6	463.6	467.9
55°	6614.0	4220.2	776.0	563.1	511.2	472.3	443.1	421.5	428.0	437.7	438.8
57.5°	7355.3	4877.3	918.6	564.1	502.5	462.5	424.7	396.6	396.6	403.1	406.3
60°	8261.0	5592.7	1106.7	565.2	503.6	448.5	399.9	368.5	364.2	367.4	368.5
62.5°	9160.1	6191.4	1138.0	562.0	514.4	434.4	372.8	340.4	332.9	331.8	329.6
65°	9556.8	6080.1	932.7	546.8	526.3	425.8	351.2	313.4	300.4	296.1	296.1
67.5°	8910.5	5143.1	701.4	526.3	518.7	417.2	330.7	290.7	275.6	266.9	266.9
69°	8303.1	4574.7	630.1	512.3	499.3	403.1	317.7	278.8	260.5	250.7	247.5
70°	7834.1	4183.4	599.8	500.4	480.9	386.9	308.0	270.2	249.6	238.8	236.7
72.5°	6251.9	3282.1	525.2	455.0	409.6	325.3	273.4	243.2	223.7	211.8	208.6
75°	3603.1	1778.9	435.5	395.5	329.6	252.9	231.3	211.8	196.7	185.9	182.6
77.5°	1108.8	687.3	315.6	312.3	242.1	195.6	184.8	177.2	166.4	154.5	152.4
80°	466.9	350.2	214.0	210.7	161.0	136.2	132.9	131.8	127.5	117.8	114.6
82.5°	256.1	197.8	149.1	129.7	97.3	78.9	82.1	83.2	80.0	70.2	63.8
85°	125.4	108.1	72.4	58.4	44.3	28.1	27.0	32.4	30.3	21.6	23.8
87.5°	24.9	30.3	19.5	8.6	4.3	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)