

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: P454810

Luminaire Tested: **GALN-SA6A-722-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454810
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-722-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 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: 19759 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

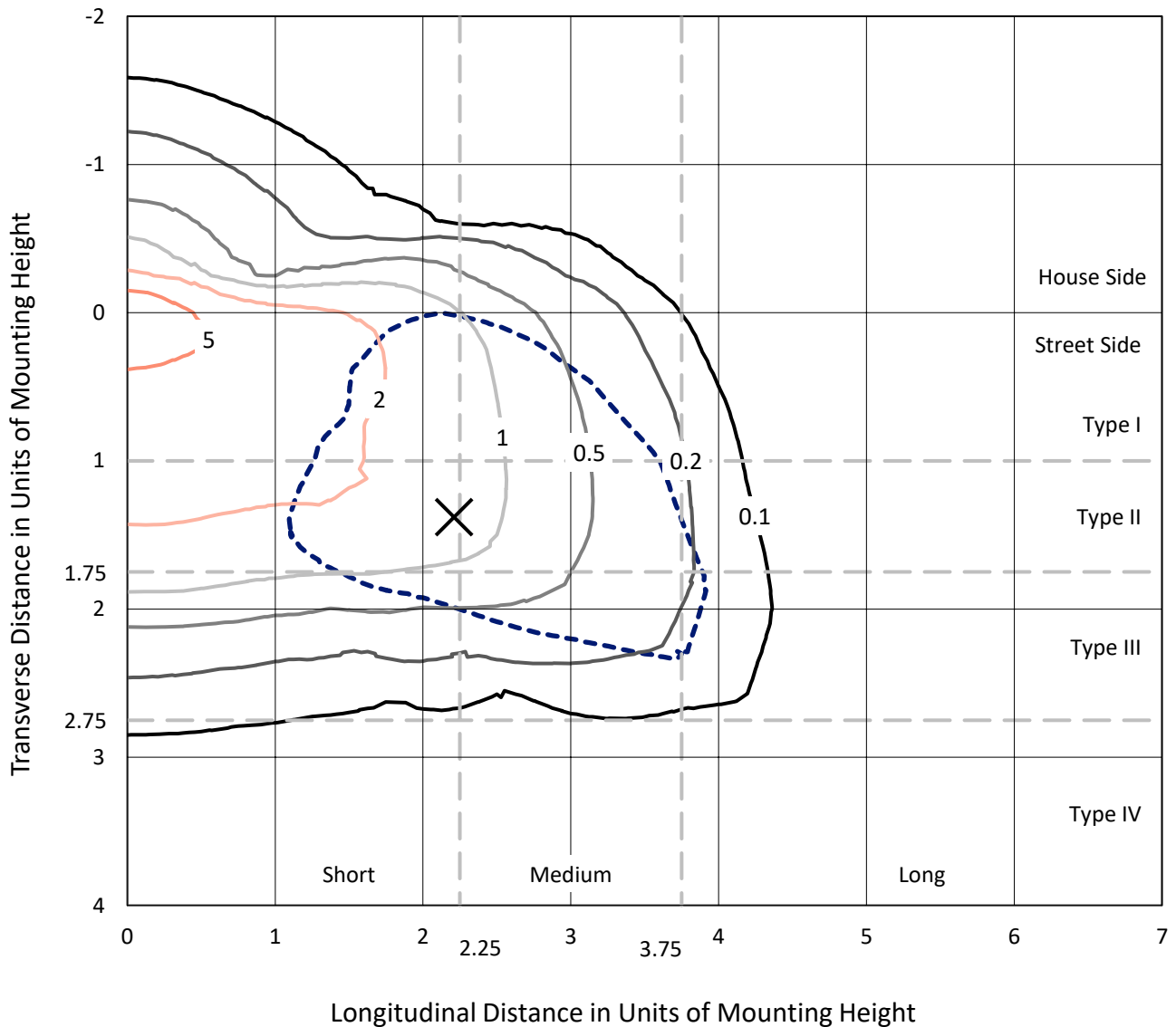
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454810
 CATALOG NUMBER: GALN-SA6A-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

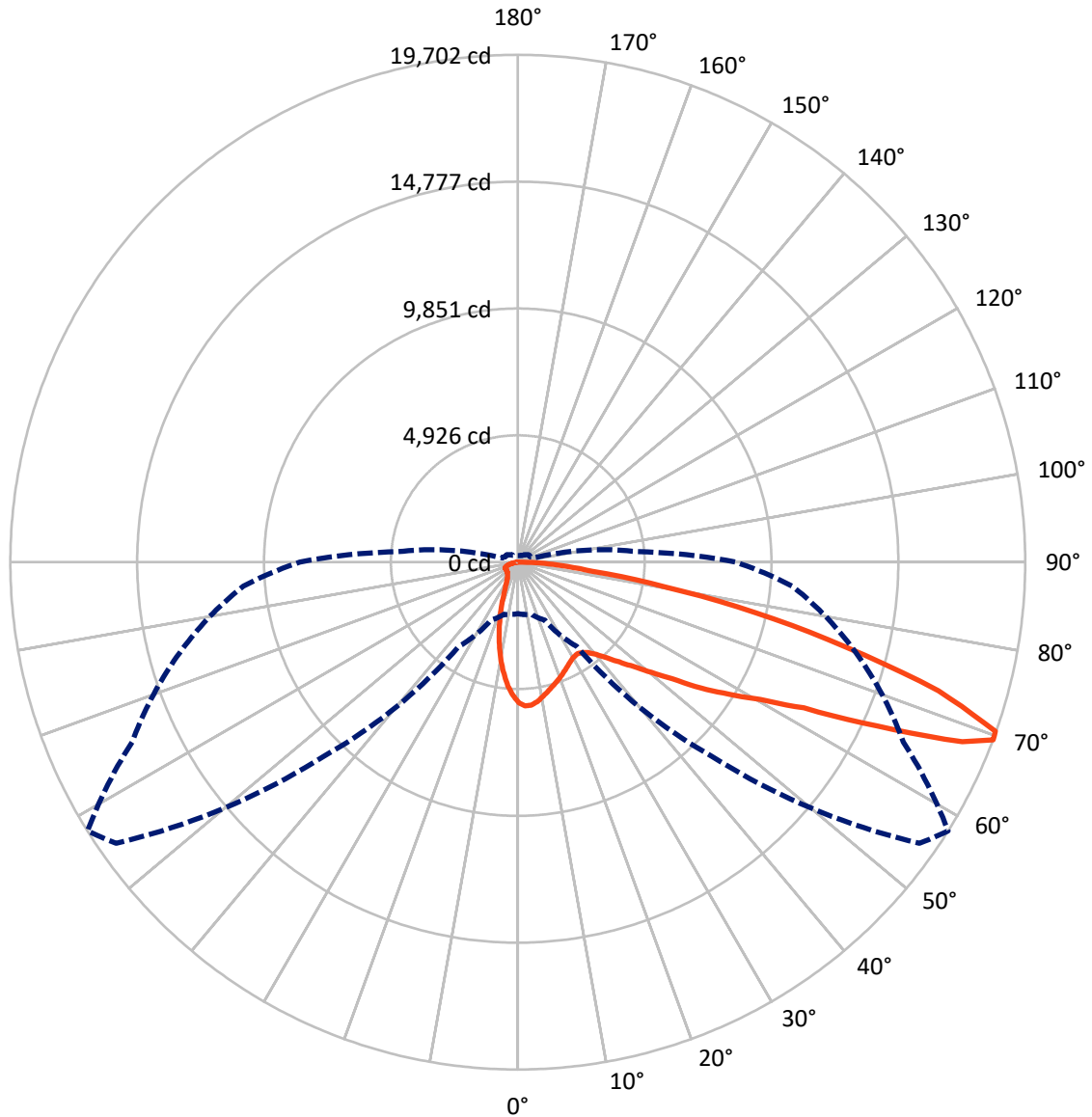
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2895.7	0.0	2895.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16863.3	0.0	16863.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	19759.0	0.0	19759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.7	2.3
10°-20°	1018.2	5.2
20°-30°	1315.6	6.7
30°-40°	1708.7	8.6
40°-50°	2484.1	12.6
50°-60°	3963.9	20.1
60°-70°	5295.2	26.8
70°-80°	3052.5	15.4
80°-90°	457.2	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°	19759.0	100.0
0°-180°	19759.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454810

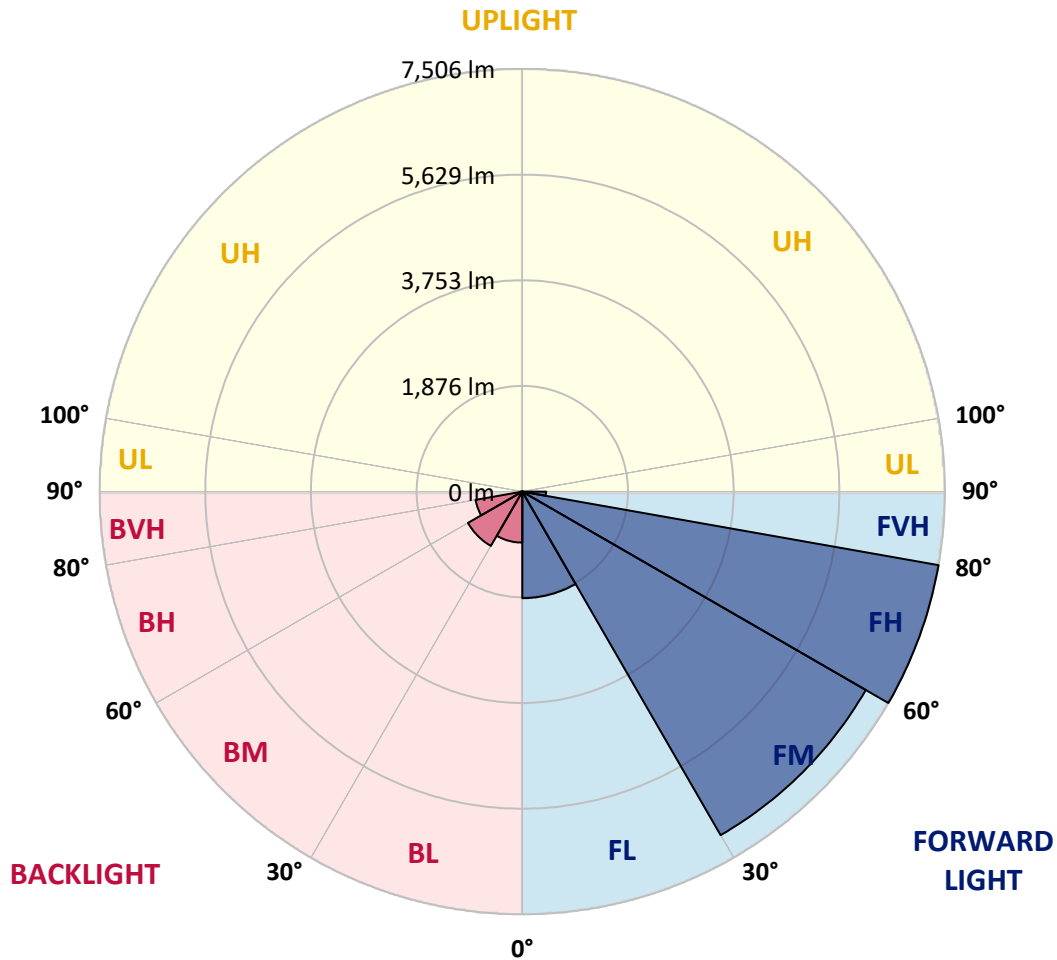
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.4	9.6			
FM (30°-60°)	7043.1	35.6			
FH (60°-80°)	7505.7	38.0			G4/12000
FVH (80°-90°)	422.2	2.1			G3/500
BL (0°-30°)	905.1	4.6	B2/1000		
BM (30°-60°)	1113.6	5.6	B2/2500		
BH (60°-80°)	842.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2
2.5°	5663.0	5678.4	5674.0	5668.5	5659.7	5635.4	5595.8	5589.2	5563.8	5509.8	5442.6
5°	5575.9	5589.2	5590.3	5598.0	5609.0	5604.6	5575.9	5572.6	5535.2	5462.4	5350.0
7.5°	5277.3	5294.9	5333.5	5376.5	5415.1	5451.4	5460.2	5465.7	5442.6	5358.9	5209.0
10°	4941.2	4958.8	4976.5	5040.4	5135.2	5225.5	5300.4	5310.4	5315.9	5238.7	5055.8
12.5°	4568.7	4605.1	4642.6	4737.3	4864.1	5006.2	5138.5	5159.4	5196.9	5138.5	4923.6
15°	4252.5	4289.9	4343.9	4428.8	4582.0	4786.9	4973.2	5007.3	5081.2	5051.4	4800.2
17.5°	4033.2	4046.4	4083.9	4180.9	4346.1	4562.1	4811.2	4879.5	4997.4	4989.7	4694.4
20°	3860.2	3876.7	3899.9	3959.4	4131.3	4359.4	4660.2	4748.4	4908.1	4934.6	4589.7
22.5°	3787.4	3799.6	3796.3	3828.2	3945.0	4174.2	4507.0	4611.7	4828.8	4897.1	4492.7
25°	3791.9	3802.9	3786.3	3778.6	3848.1	4011.1	4347.2	4480.6	4764.9	4871.8	4404.5
27.5°	3865.7	3873.4	3842.5	3811.7	3817.2	3909.8	4215.0	4362.7	4710.9	4882.8	4330.7
30°	3964.9	3979.2	3959.4	3921.9	3881.1	3885.5	4130.2	4275.6	4685.6	4921.4	4295.5
32.5°	4092.7	4105.9	4097.1	4067.3	4014.5	3956.1	4109.2	4243.7	4687.8	4999.6	4287.7
35°	4227.1	4253.6	4267.9	4265.7	4222.7	4121.3	4191.9	4303.2	4740.6	5130.7	4332.9
37.5°	4379.2	4401.2	4463.0	4502.6	4463.0	4345.0	4378.1	4455.2	4857.5	5320.3	4432.1
40°	4526.9	4559.9	4650.3	4773.7	4758.3	4654.7	4662.4	4713.1	5063.5	5602.4	4626.0
42.5°	4681.1	4720.8	4878.4	5061.3	5097.7	5017.2	5038.2	5083.4	5356.6	5993.6	4958.8
45°	4879.5	4926.9	5120.8	5348.9	5492.2	5442.6	5502.1	5524.1	5748.9	6502.7	5397.4
47.5°	5135.2	5190.2	5429.4	5713.7	5916.4	5961.6	6065.2	6052.0	6234.9	7105.5	5966.0
50°	5566.0	5596.9	5822.8	6112.6	6391.4	6595.3	6707.7	6728.6	6837.7	7691.7	6601.9
52.5°	6078.4	6106.0	6269.1	6522.5	6871.8	7303.8	7581.5	7513.2	7539.6	8405.8	7345.7
55°	6654.8	6701.0	6804.6	6973.2	7426.1	8062.0	8619.6	8636.1	8343.0	9089.0	8058.7
57.5°	7101.1	7179.3	7356.7	7596.9	8171.1	8905.0	9654.3	9665.3	9290.7	9818.5	8845.5
60°	6876.3	6968.8	7374.3	7959.5	9148.5	10376.1	10890.7	10827.9	10213.0	10649.4	9805.3
62.5°	5906.5	5923.1	6512.6	7427.2	9449.3	12344.2	12731.0	12465.4	11443.9	11702.9	10780.5
65°	3822.7	3930.7	4397.9	5679.5	8460.9	13436.2	15955.3	15341.5	13169.6	12898.5	11597.1
67.5°	2413.3	2385.8	2579.7	3243.1	5819.5	12474.2	18706.9	18610.0	15426.4	13653.3	11402.0
69°	2001.2	2032.0	2098.1	2486.0	4004.5	10650.5	19032.0	19702.0	16520.6	13593.8	10693.5
70°	1814.9	1829.3	1898.7	2203.9	3089.9	8920.4	18498.7	19672.3	16950.4	13344.8	10179.9
72.5°	1440.3	1439.2	1558.2	1833.7	2309.7	5092.2	15189.5	17079.3	16470.0	12185.5	8411.3
75°	1094.3	1111.9	1243.0	1551.6	2127.9	2782.5	10599.8	13153.0	13154.1	9624.6	5248.7
77.5°	789.0	800.0	953.2	1302.5	2004.5	2255.7	7060.3	9433.9	8868.6	4410.1	1649.6
80°	516.8	523.4	640.2	1031.4	1807.2	2127.9	4186.4	5774.3	4183.1	1170.3	545.5
82.5°	283.2	316.3	391.2	667.8	1450.2	1965.9	2544.4	2922.4	1569.2	521.2	284.3
85°	142.2	151.0	220.4	390.1	947.7	1626.5	1772.0	1676.1	809.9	259.0	147.7
87.5°	41.9	52.9	91.5	151.0	384.6	847.4	986.3	884.9	311.9	93.7	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454810
 CATALOG NUMBER: GALN-SA6A-722-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2	5460.2
2.5°	5415.1	5395.2	5307.1	5227.7	5155.0	5077.8	5012.8	4955.5	4961.0	4962.1	4903.7
5°	5291.6	5246.4	5079.0	4922.5	4790.2	4622.7	4479.5	4386.9	4340.6	4278.9	4301.0
7.5°	5124.1	5037.1	4804.6	4544.5	4301.0	4083.9	3848.1	3686.1	3582.5	3482.2	3495.4
10°	4951.1	4811.2	4472.9	4129.1	3813.9	3466.8	3165.9	2908.1	2716.3	2644.7	2597.3
12.5°	4773.7	4589.7	4159.9	3702.6	3267.3	2851.9	2425.4	2148.8	1937.3	1824.9	1839.2
15°	4611.7	4388.0	3833.7	3276.1	2710.8	2216.0	1790.7	1527.3	1379.7	1348.8	1366.4
17.5°	4461.9	4168.7	3528.5	2861.8	2201.7	1661.8	1345.5	1196.7	1137.2	1120.7	1119.6
20°	4307.6	3982.5	3185.8	2418.8	1715.8	1288.2	1104.2	1034.7	1023.7	1030.3	1031.4
22.5°	4151.1	3752.2	2833.1	1979.1	1366.4	1053.5	965.3	946.6	955.4	970.8	973.0
25°	4006.7	3549.4	2493.7	1593.4	1090.9	925.6	882.7	882.7	902.5	925.6	926.8
27.5°	3887.7	3353.3	2155.4	1265.1	913.5	833.1	818.8	826.5	854.0	871.7	872.8
30°	3789.7	3170.3	1835.9	1013.8	803.3	759.3	755.9	769.2	789.0	805.5	806.6
32.5°	3715.8	3009.5	1537.2	851.8	727.3	703.1	702.0	711.9	722.9	727.3	731.7
35°	3687.2	2876.1	1264.0	749.3	676.6	661.2	661.2	660.1	664.5	666.7	668.9
37.5°	3710.3	2773.6	1052.4	683.2	639.1	628.1	621.5	614.9	612.7	612.7	613.8
40°	3808.4	2719.6	894.8	640.2	612.7	596.2	584.0	576.3	568.6	570.8	573.0
42.5°	4016.7	2729.6	787.9	611.6	589.6	566.4	548.8	540.0	534.5	541.1	540.0
45°	4348.3	2828.7	719.6	591.8	566.4	536.7	520.1	511.3	511.3	521.2	524.5
47.5°	4812.3	3018.3	683.2	576.3	548.8	513.5	497.0	490.4	492.6	509.1	510.2
50°	5378.7	3347.8	676.6	568.6	540.0	497.0	478.3	471.6	477.2	494.8	497.0
52.5°	6003.5	3772.0	708.6	569.7	532.2	487.1	462.8	452.9	458.4	472.7	477.2
55°	6744.0	4303.2	791.2	574.1	521.2	481.6	451.8	429.8	436.4	446.3	447.4
57.5°	7500.0	4973.2	936.7	575.2	512.4	471.6	433.1	404.4	404.4	411.0	414.3
60°	8423.4	5702.7	1128.4	576.3	513.5	457.3	407.7	375.8	371.4	374.7	375.8
62.5°	9340.2	6313.2	1160.4	573.0	524.5	443.0	380.2	347.1	339.4	338.3	336.1
65°	9744.7	6199.6	951.0	557.6	536.7	434.2	358.1	319.6	306.3	301.9	301.9
67.5°	9085.7	5244.2	715.2	536.7	528.9	425.4	337.2	296.4	281.0	272.2	272.2
69°	8466.4	4664.6	642.4	522.3	509.1	411.0	324.0	284.3	265.6	255.7	252.3
70°	7988.1	4265.7	611.6	510.2	490.4	394.5	314.1	275.5	254.6	243.5	241.3
72.5°	6374.9	3346.7	535.6	463.9	417.6	331.7	278.8	247.9	228.1	216.0	212.7
75°	3673.9	1813.8	444.1	403.3	336.1	257.9	235.8	216.0	200.6	189.5	186.2
77.5°	1130.6	700.8	321.8	318.5	246.8	199.5	188.4	180.7	169.7	157.6	155.4
80°	476.0	357.0	218.2	214.9	164.2	138.8	135.5	134.4	130.0	120.1	116.8
82.5°	261.2	201.7	152.1	132.2	99.2	80.4	83.7	84.9	81.5	71.6	65.0
85°	127.8	110.2	73.8	59.5	45.2	28.7	27.5	33.1	30.9	22.0	24.2
87.5°	25.3	30.9	19.8	8.8	4.4	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)