

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: P453969

Luminaire Tested: **GALN-SA5A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453969
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-SA5A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 22699 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

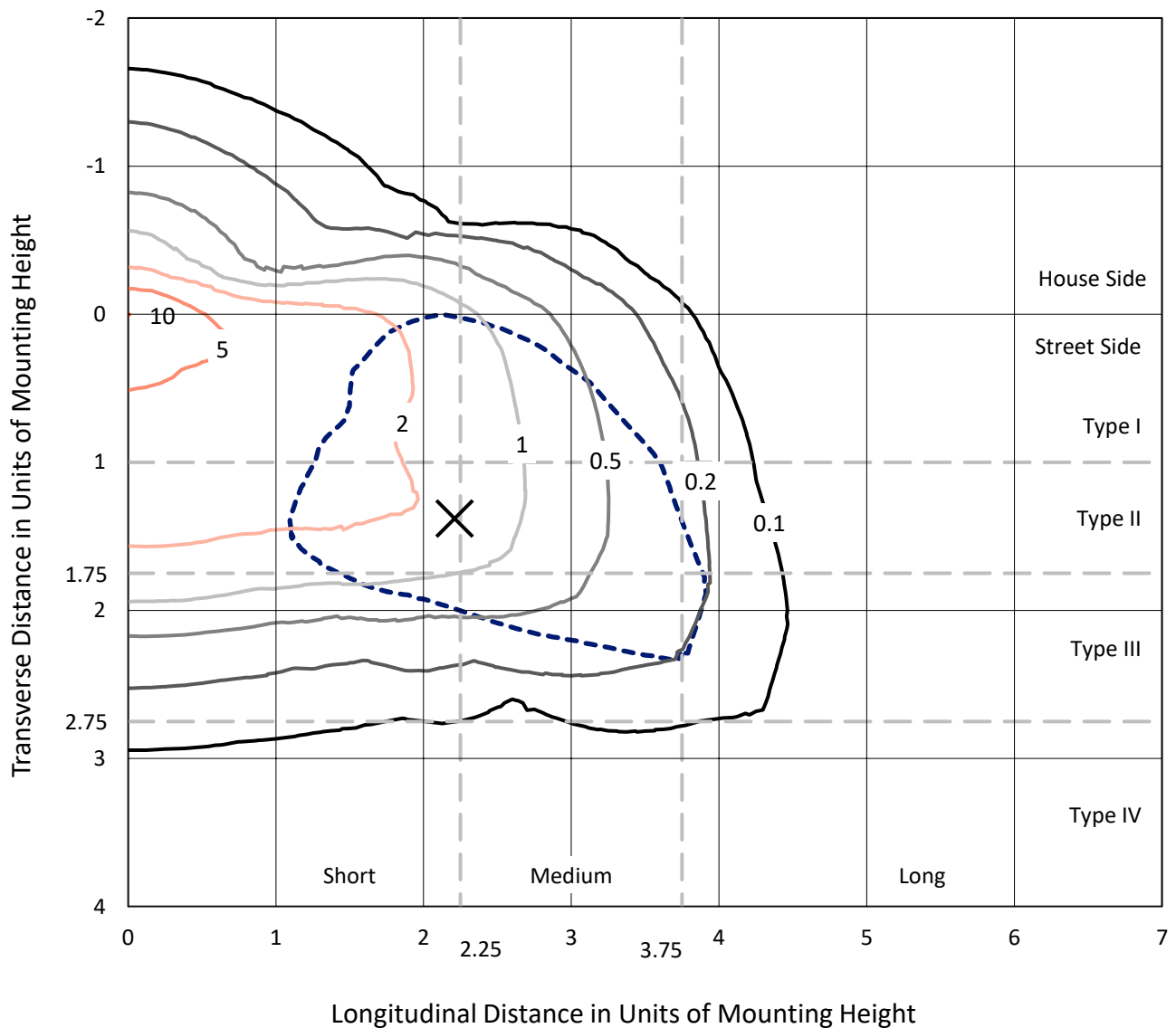
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

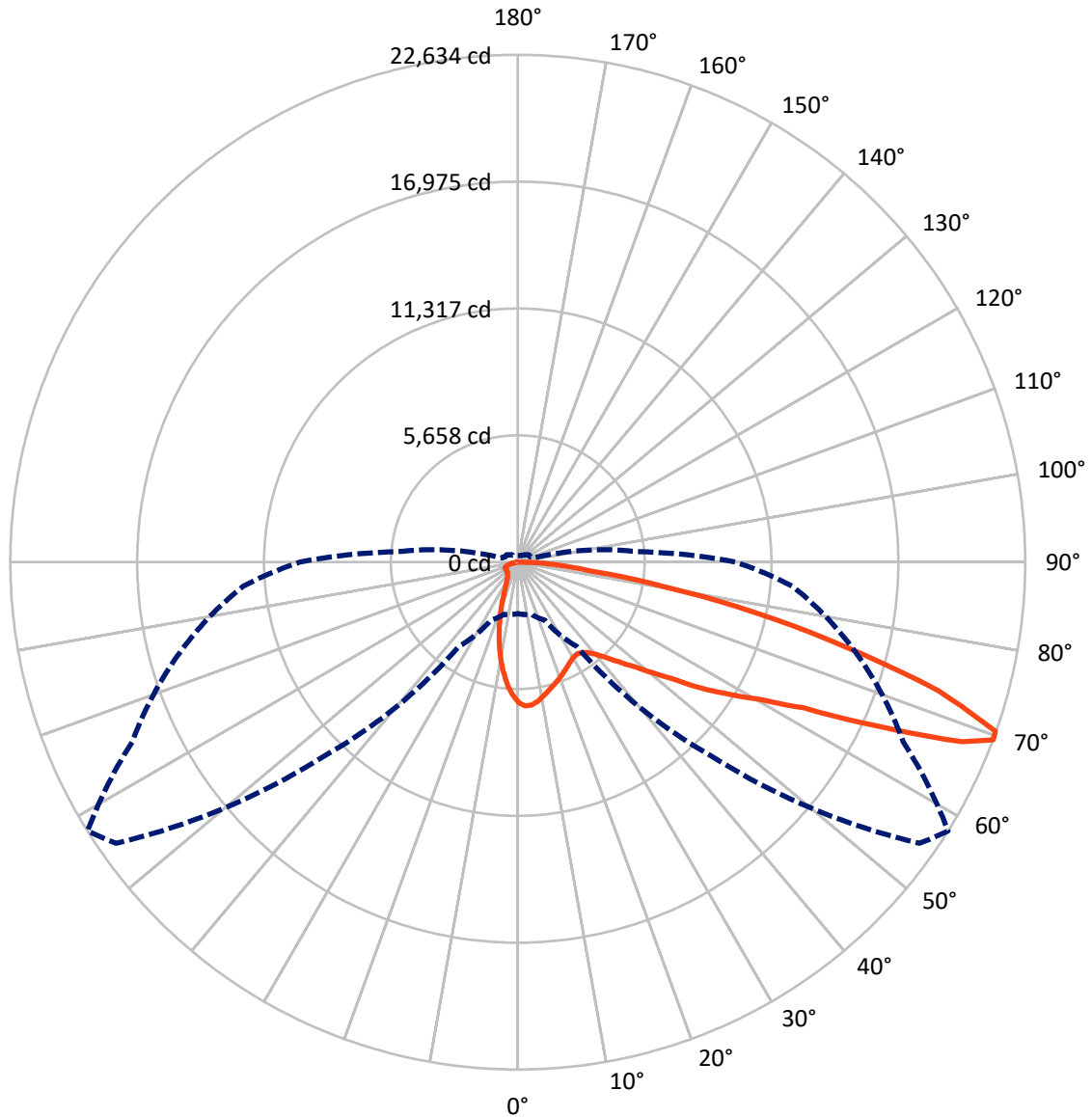
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3326.5	0.0	3326.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19372.5	0.0	19372.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	22699.0	0.0	22699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.7	2.3
10°-20°	1169.7	5.2
20°-30°	1511.3	6.7
30°-40°	1962.9	8.6
40°-50°	2853.7	12.6
50°-60°	4553.6	20.1
60°-70°	6083.1	26.8
70°-80°	3506.7	15.4
80°-90°	525.2	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°	22699.0	100.0
0°-180°	22699.0	100.0

Coefficient of Utilization



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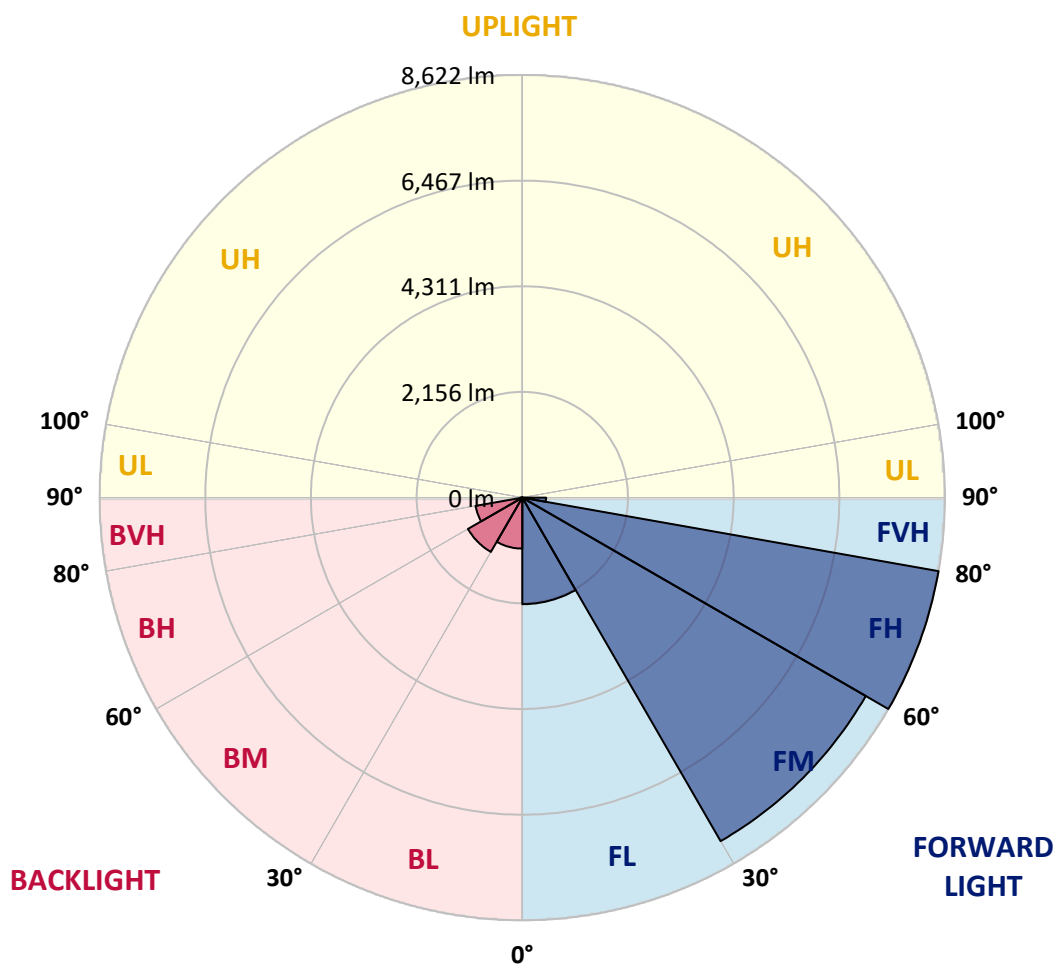
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2174.0	9.6			
FM (30°-60°)	8091.0	35.6			
FH (60°-80°)	8622.5	38.0			G4/12000
FVH (80°-90°)	485.0	2.1			G3/500
BL (0°-30°)	1039.7	4.6	B3/2500		
BM (30°-60°)	1279.3	5.6	B2/2500		
BH (60°-80°)	967.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.2	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°	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7
2.5°	6505.6	6523.3	6518.3	6511.9	6501.8	6474.0	6428.4	6420.8	6391.7	6329.6	6252.4
5°	6405.6	6420.8	6422.1	6430.9	6443.6	6438.5	6405.6	6401.8	6358.8	6275.2	6146.1
7.5°	6062.5	6082.8	6127.1	6176.5	6220.8	6262.5	6272.7	6279.0	6252.4	6156.2	5984.0
10°	5676.4	5696.7	5716.9	5790.4	5899.2	6003.0	6089.1	6100.5	6106.8	6018.2	5808.1
12.5°	5248.5	5290.3	5333.4	5442.2	5587.8	5751.1	5903.0	5927.1	5970.1	5903.0	5656.2
15°	4885.2	4928.3	4990.3	5087.8	5263.7	5499.2	5713.1	5752.4	5837.2	5803.0	5514.4
17.5°	4633.3	4648.5	4691.5	4802.9	4992.8	5240.9	5527.0	5605.5	5741.0	5732.1	5392.9
20°	4434.5	4453.5	4480.1	4548.5	4746.0	5008.0	5353.6	5454.9	5638.4	5668.8	5272.6
22.5°	4351.0	4364.9	4361.1	4397.8	4532.0	4795.3	5177.6	5297.9	5547.3	5625.8	5161.2
25°	4356.1	4368.7	4349.7	4340.9	4420.6	4608.0	4994.1	5147.3	5473.9	5596.7	5059.9
27.5°	4440.9	4449.7	4414.3	4378.8	4385.2	4491.5	4842.2	5011.8	5411.8	5609.3	4975.1
30°	4554.8	4571.3	4548.5	4505.4	4458.6	4463.7	4744.7	4911.8	5382.7	5653.6	4934.6
32.5°	4701.7	4716.8	4706.7	4672.5	4611.8	4544.7	4720.6	4875.1	5385.3	5743.5	4925.7
35°	4856.1	4886.5	4902.9	4900.4	4851.0	4734.6	4815.6	4943.4	5446.0	5894.2	4977.6
37.5°	5030.8	5056.1	5127.0	5172.6	5127.0	4991.6	5029.5	5118.1	5580.2	6111.9	5091.6
40°	5200.4	5238.4	5342.2	5484.0	5466.3	5347.3	5356.1	5414.4	5816.9	6436.0	5314.4
42.5°	5377.7	5423.2	5604.3	5814.4	5856.2	5763.8	5787.8	5839.7	6153.7	6885.4	5696.7
45°	5605.5	5660.0	5882.8	6144.8	6309.4	6252.4	6320.8	6346.1	6604.3	7470.2	6200.5
47.5°	5899.2	5962.5	6237.2	6563.8	6796.8	6848.7	6967.7	6952.5	7162.6	8162.7	6853.7
50°	6394.2	6429.6	6689.2	7022.1	7342.4	7576.6	7705.7	7729.8	7855.1	8836.2	7584.2
52.5°	6982.9	7014.5	7201.9	7493.0	7894.3	8390.6	8709.6	8631.1	8661.5	9656.5	8438.7
55°	7644.9	7698.1	7817.1	8010.8	8531.1	9261.5	9902.1	9921.1	9584.3	10441.4	9257.7
57.5°	8157.6	8247.5	8451.3	8727.3	9386.9	10230.0	11090.8	11103.5	10673.0	11279.4	10161.6
60°	7899.4	8005.7	8471.6	9143.8	10509.7	11920.0	12511.2	12439.0	11732.6	12233.9	11264.2
62.5°	6785.4	6804.4	7481.6	8532.4	10855.3	14180.9	14625.3	14320.2	13146.7	13444.2	12384.6
65°	4391.5	4515.6	5052.3	6524.6	9719.8	15435.5	18329.4	17624.3	15129.1	14817.7	13322.6
67.5°	2772.4	2740.7	2963.5	3725.6	6685.4	14330.3	21490.4	21379.0	17721.7	15684.9	13098.6
69°	2298.9	2334.4	2410.3	2855.9	4600.4	12235.2	21863.8	22633.5	18978.8	15616.5	12284.6
70°	2085.0	2101.4	2181.2	2531.9	3549.7	10247.7	21251.1	22599.4	19472.5	15330.4	11694.6
72.5°	1654.6	1653.3	1790.0	2106.5	2653.4	5849.9	17449.6	19620.6	18920.6	13998.6	9662.8
75°	1257.1	1277.3	1428.0	1782.4	2444.5	3196.5	12177.0	15110.1	15111.4	11056.6	6029.6
77.5°	906.4	919.1	1095.0	1496.3	2302.7	2591.4	8110.8	10837.6	10188.2	5066.2	1895.1
80°	593.7	601.3	735.5	1184.9	2076.1	2444.5	4809.3	6633.5	4805.5	1344.4	626.6
82.5°	325.3	363.3	449.4	767.2	1666.0	2258.4	2923.0	3357.2	1802.7	598.8	326.6
85°	163.3	173.4	253.2	448.1	1088.7	1868.5	2035.6	1925.5	930.5	297.5	169.6
87.5°	48.1	60.8	105.1	173.4	441.8	973.5	1133.0	1016.5	358.3	107.6	35.4
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°	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7
2.5°	6220.8	6198.0	6096.7	6005.6	5922.0	5833.4	5758.7	5692.9	5699.2	5700.5	5633.4
5°	6079.0	6027.1	5834.7	5654.9	5503.0	5310.6	5146.0	5039.7	4986.5	4915.6	4940.9
7.5°	5886.6	5786.6	5519.4	5220.7	4940.9	4691.5	4420.6	4234.5	4115.5	4000.3	4015.5
10°	5687.8	5527.0	5138.4	4743.4	4381.4	3982.6	3637.0	3340.8	3120.5	3038.2	2983.8
12.5°	5484.0	5272.6	4778.9	4253.5	3753.5	3276.2	2786.3	2468.6	2225.5	2096.4	2112.8
15°	5297.9	5040.9	4404.2	3763.6	3114.2	2545.8	2057.1	1754.6	1584.9	1549.5	1569.8
17.5°	5125.7	4789.0	4053.5	3287.6	2529.3	1909.0	1545.7	1374.8	1306.4	1287.4	1286.2
20°	4948.5	4575.1	3659.8	2778.7	1971.1	1479.9	1268.5	1188.7	1176.0	1183.6	1184.9
22.5°	4768.8	4310.5	3254.7	2273.6	1569.8	1210.2	1109.0	1087.4	1097.6	1115.3	1117.8
25°	4602.9	4077.6	2864.8	1830.5	1253.3	1063.4	1014.0	1014.0	1036.8	1063.4	1064.6
27.5°	4466.2	3852.2	2476.2	1453.3	1049.5	957.0	940.6	949.4	981.1	1001.3	1002.6
30°	4353.5	3642.1	2109.0	1164.7	922.9	872.2	868.4	883.6	906.4	925.4	926.7
32.5°	4268.7	3457.3	1766.0	978.6	835.5	807.7	806.4	817.8	830.4	835.5	840.6
35°	4235.8	3304.1	1452.0	860.8	777.3	759.6	759.6	758.3	763.4	765.9	768.4
37.5°	4262.4	3186.3	1209.0	784.9	734.2	721.6	714.0	706.4	703.9	703.9	705.1
40°	4375.0	3124.3	1027.9	735.5	703.9	684.9	670.9	662.1	653.2	655.8	658.3
42.5°	4614.3	3135.7	905.1	702.6	677.3	650.7	630.4	620.3	614.0	621.6	620.3
45°	4995.4	3249.6	826.7	679.8	650.7	616.5	597.5	587.4	587.4	598.8	602.6
47.5°	5528.3	3467.4	784.9	662.1	630.4	589.9	570.9	563.3	565.9	584.9	586.1
50°	6179.0	3845.9	777.3	653.2	620.3	570.9	549.4	541.8	548.1	568.4	570.9
52.5°	6896.8	4333.3	814.0	654.5	611.4	559.5	531.7	520.3	526.6	543.1	548.1
55°	7747.5	4943.4	908.9	659.5	598.8	553.2	519.0	493.7	501.3	512.7	514.0
57.5°	8615.9	5713.1	1076.0	660.8	588.7	541.8	497.5	464.6	464.6	472.2	476.0
60°	9676.8	6551.2	1296.3	662.1	589.9	525.4	468.4	431.7	426.6	430.4	431.7
62.5°	10730.0	7252.5	1333.0	658.3	602.6	508.9	436.7	398.8	389.9	388.6	386.1
65°	11194.6	7122.1	1092.5	640.6	616.5	498.8	411.4	367.1	351.9	346.9	346.9
67.5°	10437.6	6024.6	821.6	616.5	607.6	488.6	387.4	340.5	322.8	312.7	312.7
69°	9726.1	5358.7	738.0	600.1	584.9	472.2	372.2	326.6	305.1	293.7	289.9
70°	9176.7	4900.4	702.6	586.1	563.3	453.2	360.8	316.5	292.4	279.8	277.2
72.5°	7323.4	3844.6	615.2	533.0	479.8	381.0	320.3	284.8	262.0	248.1	244.3
75°	4220.6	2083.7	510.2	463.3	386.1	296.2	270.9	248.1	230.4	217.7	213.9
77.5°	1298.8	805.1	369.7	365.9	283.6	229.1	216.5	207.6	195.0	181.0	178.5
80°	546.9	410.2	250.7	246.9	188.6	159.5	155.7	154.4	149.4	138.0	134.2
82.5°	300.0	231.7	174.7	151.9	113.9	92.4	96.2	97.5	93.7	82.3	74.7
85°	146.8	126.6	84.8	68.4	51.9	32.9	31.6	38.0	35.4	25.3	27.9
87.5°	29.1	35.4	22.8	10.1	5.1	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)