

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: P531663

Luminaire Tested: **GALN-SA7A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15548 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

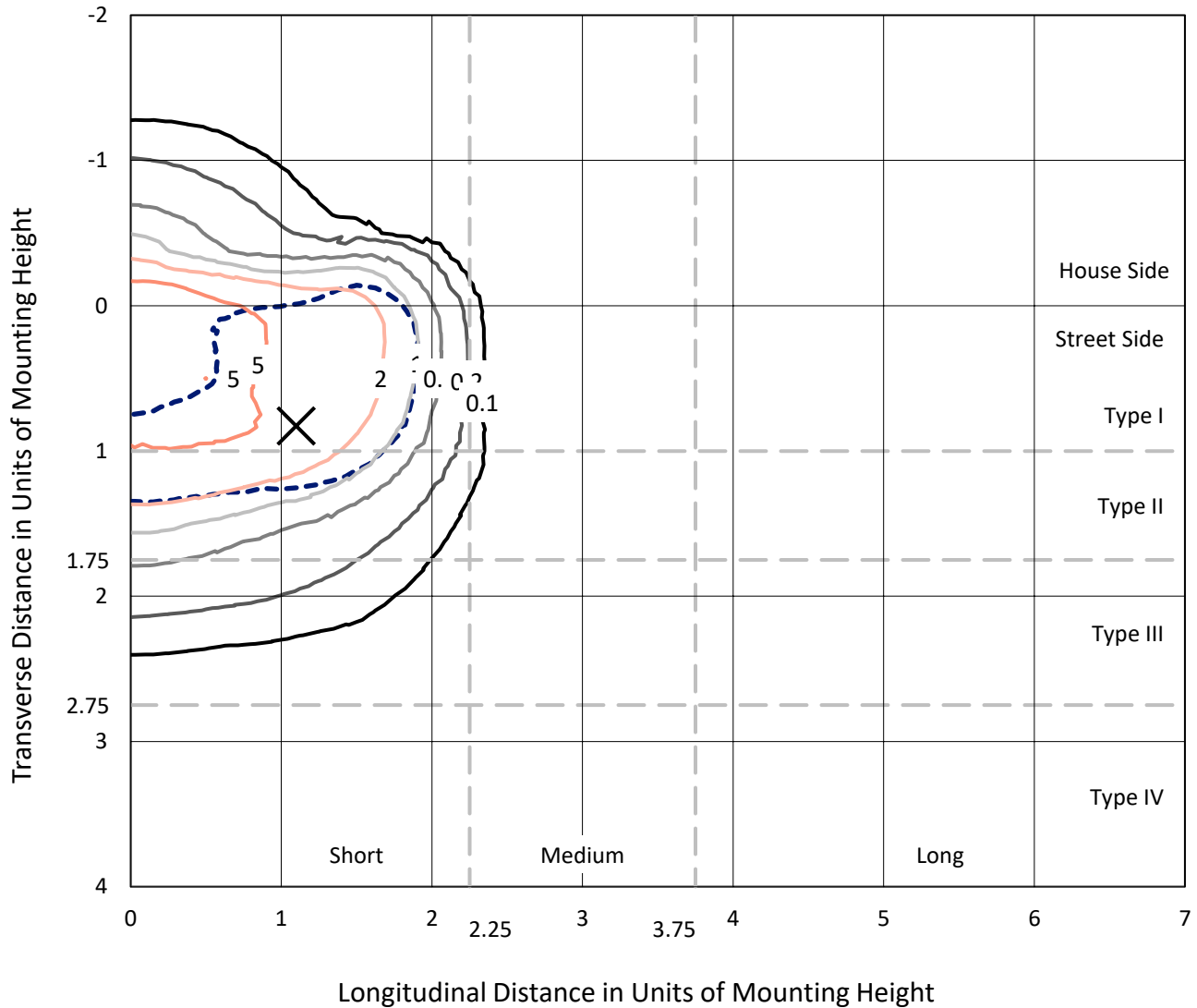
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

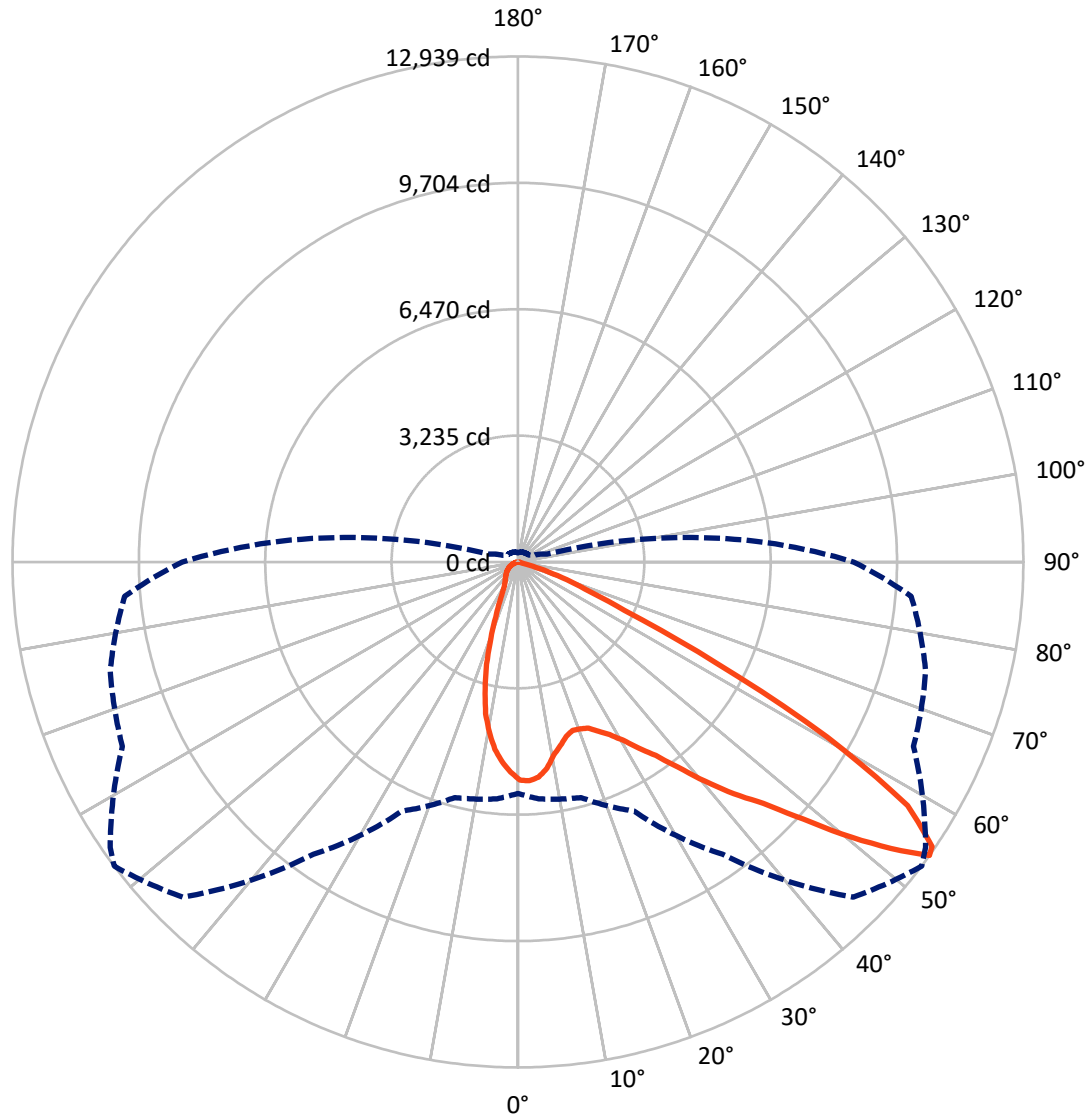
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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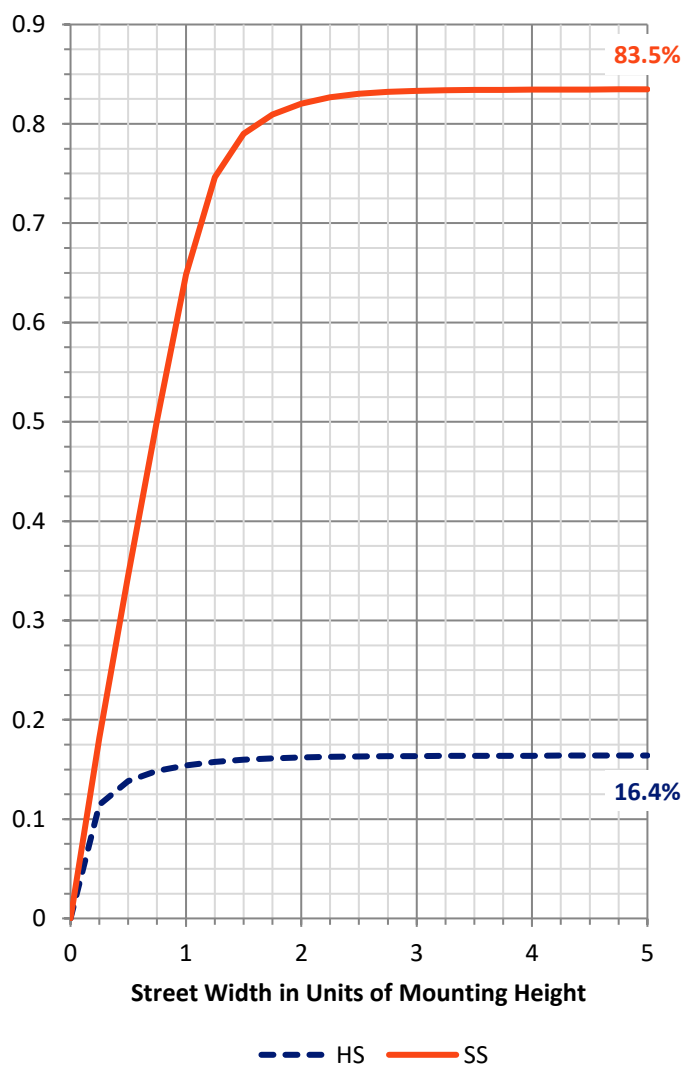
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.5	0.0	2572.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12975.5	0.0	12975.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	15548.0	0.0	15548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.1	3.1
10°-20°	1098.5	7.1
20°-30°	1561.2	10.0
30°-40°	2409.4	15.5
40°-50°	3777.7	24.3
50°-60°	4388.4	28.2
60°-70°	1658.2	10.7
70°-80°	157.7	1.0
80°-90°	17.8	0.1
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°	15548.0	100.0
0°-180°	15548.0	100.0

Coefficient of Utilization



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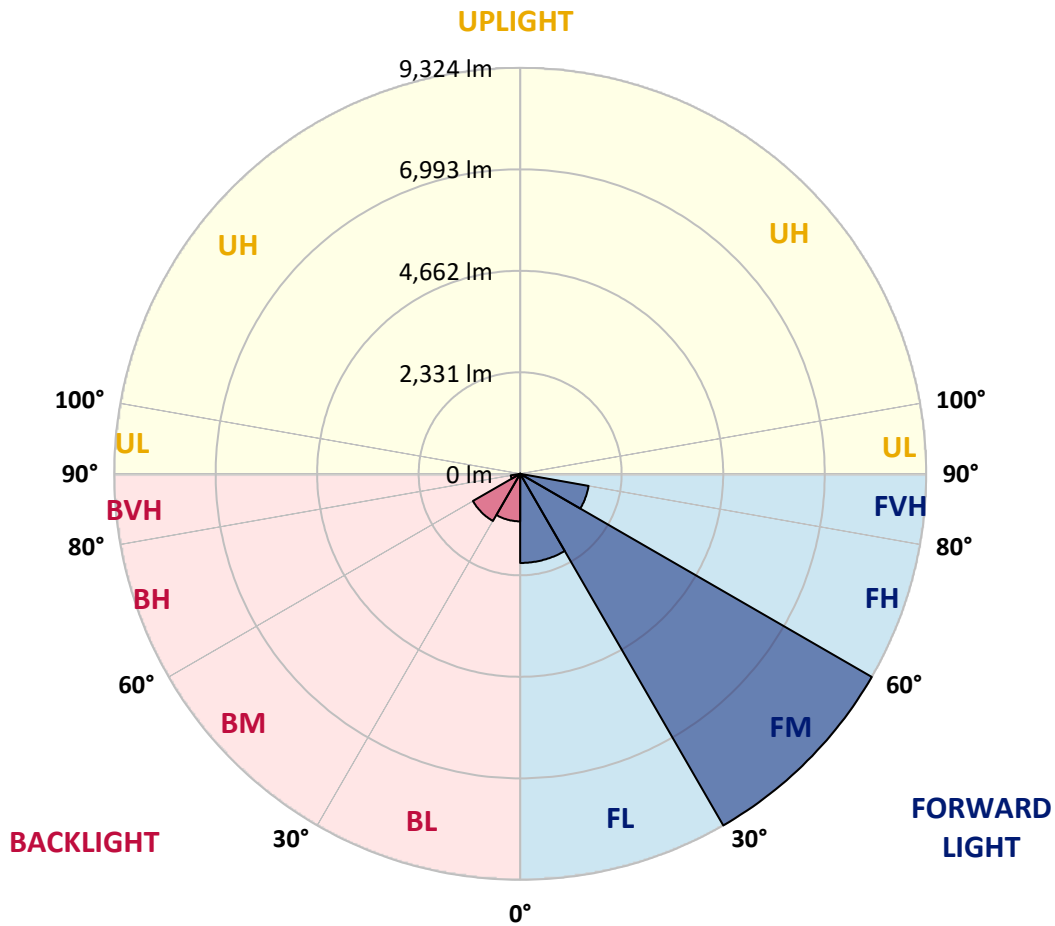
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.3	13.2			
FM (30°-60°)	9323.6	60.0			
FH (60°-80°)	1595.5	10.3			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	1091.6	7.0	B3/2500		
BM (30°-60°)	1251.8	8.1	B2/2500		
BH (60°-80°)	220.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6
2.5°	5555.6	5506.4	5555.6	5561.4	5596.2	5628.0	5607.8	5654.1	5628.0	5599.1	5590.4
5°	5106.6	5173.3	5176.2	5280.4	5257.3	5448.4	5532.4	5509.3	5651.2	5642.5	5622.2
7.5°	4704.0	4678.0	4712.7	4834.4	4987.9	5208.0	5329.7	5326.8	5529.5	5674.4	5659.9
10°	4330.4	4327.5	4399.9	4495.5	4625.8	4857.5	5025.5	5109.5	5425.3	5645.4	5677.3
12.5°	4078.4	4066.8	4145.0	4223.2	4428.8	4608.4	4822.8	4863.3	5225.4	5544.0	5596.2
15°	3913.3	3939.3	3945.1	4095.7	4226.1	4463.6	4631.6	4715.6	5132.7	5462.9	5662.8
17.5°	3884.3	3919.1	3922.0	4046.5	4185.5	4385.4	4533.1	4646.1	5054.5	5503.5	5665.7
20°	3942.2	3922.0	3939.3	4017.5	4153.7	4344.8	4559.2	4596.9	5028.4	5523.8	5697.5
22.5°	4107.3	4101.5	4058.1	4121.8	4217.4	4417.3	4620.0	4678.0	5103.7	5628.0	5723.6
25°	4289.8	4321.7	4281.1	4272.4	4339.1	4536.0	4805.4	4880.7	5355.8	5816.3	5804.7
27.5°	4631.6	4599.7	4599.7	4559.2	4541.8	4637.4	5005.3	5129.8	5636.7	6059.6	5897.4
30°	4958.9	4993.7	4967.6	4982.1	4866.2	4857.5	5289.1	5442.6	6134.9	6430.4	6094.4
32.5°	5477.4	5431.1	5474.5	5436.9	5283.3	5126.9	5674.4	5833.7	6737.4	6856.2	6389.8
35°	5909.0	5888.7	6074.1	6068.3	5819.2	5665.7	6082.8	6320.3	7157.4	7366.0	6737.4
37.5°	6523.1	6485.4	6696.9	6798.2	6575.2	6346.4	6667.9	6943.1	7548.5	7774.4	7093.7
40°	7154.5	7250.1	7534.0	7702.0	7464.5	7160.3	7383.3	7467.3	7809.1	8040.9	7337.0
42.5°	7954.0	8093.0	8382.7	8527.5	8507.2	8177.0	8110.4	8107.5	7997.4	7965.6	7516.6
45°	8721.6	8669.4	9115.5	9431.2	9686.1	9590.5	8811.4	8724.5	8295.8	8078.5	7562.9
47.5°	9057.6	9040.2	9344.3	9906.3	10775.2	10894.0	9830.9	9494.9	8799.8	8553.6	7814.9
50°	8623.1	8712.9	9014.1	9636.9	10969.3	11875.9	11082.3	10630.4	9387.8	9132.9	8411.6
52.5°	7203.8	7264.6	7551.3	8342.1	10308.9	12455.2	12281.4	12020.7	10468.2	10045.3	9451.5
54°	5923.5	6085.7	6242.1	7035.8	9132.9	12133.7	12939.0	12739.1	11172.1	10804.2	10106.1
55°	5158.8	5254.4	5367.3	6158.1	8318.9	11589.2	12863.7	12881.0	11644.2	11041.7	10546.4
57.5°	3768.4	3835.1	3719.2	4069.7	5712.0	9410.9	11765.9	12235.1	12281.4	11398.0	10815.8
60°	2879.2	2908.2	2777.8	2832.8	3551.2	6459.3	9101.0	9665.8	11079.4	9961.3	9161.8
62.5°	2233.3	2239.0	2236.1	2331.7	2447.6	3800.3	5691.8	6192.9	7638.2	7073.4	6221.8
65°	1645.2	1619.2	1665.5	1955.2	2088.4	2389.7	2997.9	3362.9	4150.8	3504.8	2505.5
67.5°	1065.9	1074.6	1121.0	1454.1	1790.1	1833.5	1845.1	1816.1	1819.0	1002.2	628.6
70°	640.1	654.6	640.1	822.6	1280.3	1315.0	1202.1	1173.1	915.3	237.5	234.6
72.5°	379.5	359.2	321.5	353.4	533.0	637.2	573.5	570.6	359.2	139.0	139.0
75°	159.3	144.8	118.8	107.2	141.9	136.1	136.1	121.7	95.6	92.7	86.9
77.5°	31.9	31.9	23.2	26.1	34.8	40.6	49.2	49.2	57.9	57.9	55.0
80°	0.0	2.9	8.7	17.4	26.1	37.7	43.4	43.4	49.2	49.2	40.6
82.5°	0.0	2.9	8.7	17.4	23.2	34.8	43.4	43.4	49.2	52.1	43.4
85°	0.0	2.9	8.7	14.5	23.2	29.0	29.0	26.1	20.3	17.4	11.6
87.5°	0.0	0.0	2.9	5.8	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6	5584.6
2.5°	5610.6	5607.8	5538.2	5425.3	5399.2	5303.6	5292.0	5234.1	5266.0	5158.8	5147.2
5°	5564.3	5529.5	5445.5	5373.1	5161.7	5011.1	4892.3	4747.5	4663.5	4678.0	4622.9
7.5°	5630.9	5541.1	5393.4	5141.4	4883.6	4620.0	4478.1	4182.6	4075.5	3916.2	3893.0
10°	5561.4	5494.8	5266.0	4848.9	4492.6	4113.1	3780.0	3452.7	3203.6	3096.4	3073.3
12.5°	5555.6	5439.8	5057.4	4594.0	4078.4	3533.8	3050.1	2641.7	2395.5	2256.4	2224.6
15°	5465.8	5326.8	4822.8	4200.0	3487.5	2809.7	2282.5	1888.6	1700.3	1619.2	1642.4
17.5°	5474.5	5266.0	4588.2	3782.9	2905.3	2062.4	1558.4	1355.6	1306.4	1326.6	1326.6
20°	5465.8	5129.8	4304.3	3302.1	2224.6	1430.9	1144.1	1071.7	1103.6	1167.3	1152.8
22.5°	5419.5	5066.1	4043.6	2795.2	1636.6	1060.1	918.2	921.1	970.3	1048.6	1065.9
25°	5454.2	4924.2	3713.4	2282.5	1193.4	845.8	796.6	816.8	869.0	926.9	938.5
27.5°	5428.2	4822.8	3368.7	1772.7	871.9	727.0	724.1	747.3	770.5	813.9	813.9
30°	5457.1	4730.1	3029.8	1317.9	718.3	666.2	654.6	672.0	695.2	703.9	701.0
32.5°	5564.3	4660.6	2638.8	984.8	634.3	608.3	608.3	608.3	605.4	617.0	619.9
35°	5798.9	4672.2	2294.1	761.8	579.3	559.0	550.3	538.8	533.0	538.8	541.7
37.5°	6053.8	4666.4	1937.8	648.8	538.8	521.4	501.1	483.7	480.8	486.6	477.9
40°	6166.8	4721.4	1607.6	582.2	501.1	480.8	449.0	434.5	437.4	443.2	437.4
42.5°	6320.3	4738.8	1393.2	530.1	466.3	434.5	414.2	396.8	393.9	402.6	399.7
45°	6317.4	4640.3	1167.3	501.1	434.5	399.7	373.7	359.2	359.2	365.0	367.9
47.5°	6502.8	4625.8	1002.2	475.0	411.3	376.6	344.7	333.1	330.2	330.2	324.4
50°	6934.4	4828.6	874.8	446.1	382.3	350.5	324.4	309.9	298.3	292.6	289.7
52.5°	7777.3	5460.0	776.3	411.3	350.5	324.4	301.2	289.7	275.2	260.7	257.8
54°	8594.1	6111.8	770.5	382.3	324.4	307.0	286.8	281.0	263.6	243.3	237.5
55°	8962.0	6491.2	790.8	359.2	307.0	295.4	278.1	272.3	254.9	231.7	228.8
57.5°	9266.1	6638.9	779.2	298.3	278.1	275.2	260.7	252.0	231.7	199.9	194.1
60°	7458.7	5019.7	559.0	263.6	254.9	249.1	237.5	231.7	205.7	170.9	168.0
62.5°	4712.7	2887.9	356.3	231.7	223.0	214.3	199.9	194.1	170.9	136.1	127.4
65°	2007.3	1196.3	240.4	205.7	191.2	176.7	165.1	156.4	136.1	101.4	98.5
67.5°	521.4	425.8	199.9	179.6	159.3	139.0	130.3	115.9	92.7	69.5	66.6
70°	234.6	214.3	168.0	150.6	127.4	107.2	95.6	81.1	60.8	46.3	43.4
72.5°	139.0	136.1	127.4	113.0	95.6	81.1	69.5	55.0	40.6	26.1	26.1
75°	86.9	84.0	86.9	78.2	66.6	60.8	52.1	37.7	23.2	11.6	11.6
77.5°	52.1	52.1	52.1	49.2	46.3	46.3	37.7	23.2	11.6	2.9	2.9
80°	40.6	40.6	43.4	40.6	40.6	40.6	31.9	17.4	5.8	0.0	0.0
82.5°	40.6	43.4	49.2	46.3	40.6	34.8	29.0	17.4	5.8	0.0	0.0
85°	11.6	8.7	14.5	20.3	29.0	26.1	20.3	14.5	5.8	0.0	0.0
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	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)