

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: P529375

Luminaire Tested: **GALN-SA4C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529375  
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-SA4C-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA 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: 15122 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

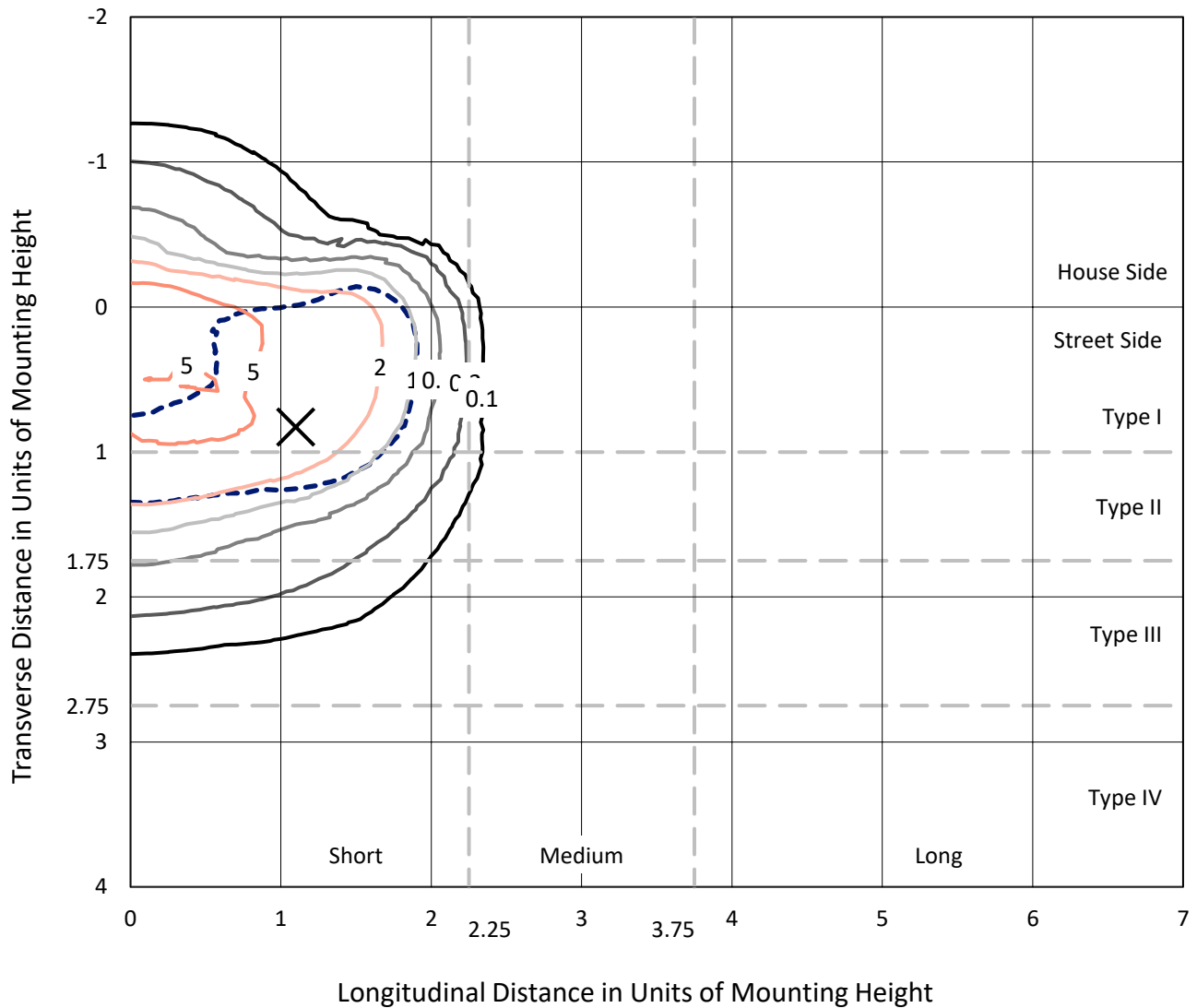
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529375  
 CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

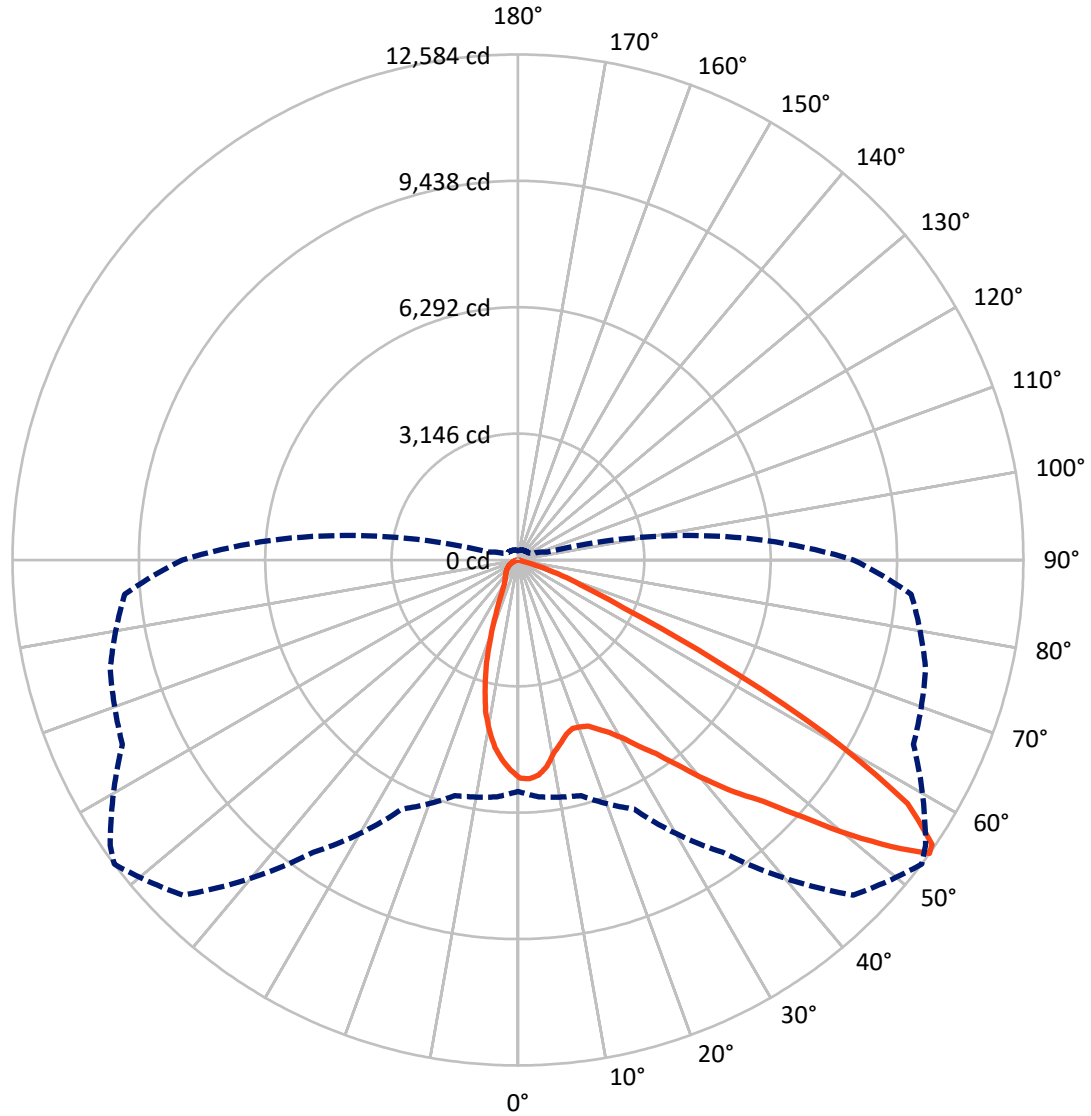
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P529375  
CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P529375  
 CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

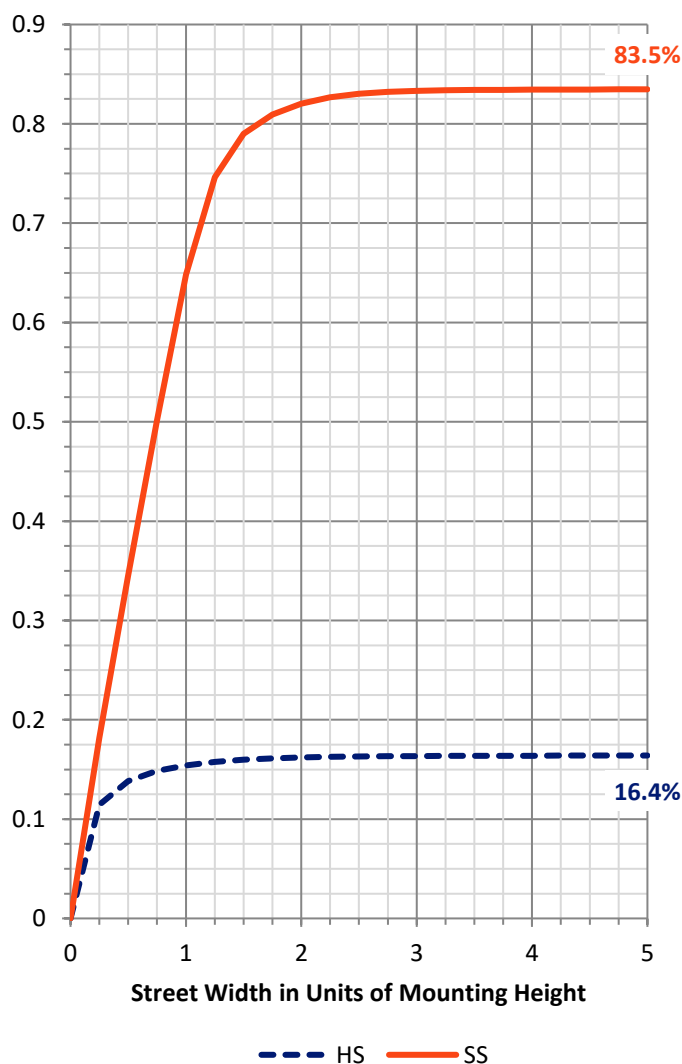
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2502.0	0.0	2502.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12620.0	0.0	12620.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15122.0	0.0	15122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.0	3.1
10°-20°	1068.4	7.1
20°-30°	1518.5	10.0
30°-40°	2343.4	15.5
40°-50°	3674.2	24.3
50°-60°	4268.1	28.2
60°-70°	1612.8	10.7
70°-80°	153.4	1.0
80°-90°	17.3	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°	15122.0	100.0
0°-180°	15122.0	100.0

**Coefficient of Utilization**

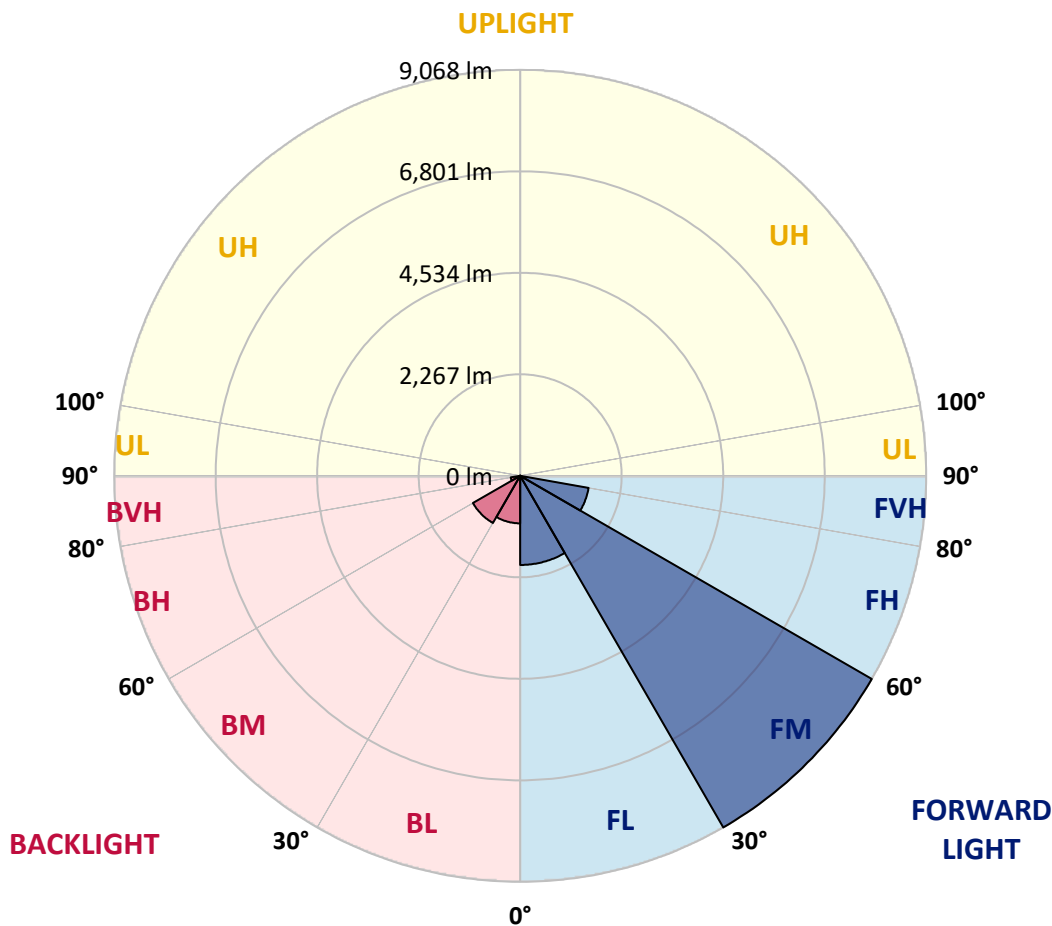


REPORT NUMBER: P529375  
 CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.2	13.2			
FM (30°-60°)	9068.2	60.0			
FH (60°-80°)	1551.7	10.3			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	1061.7	7.0	B3/2500		
BM (30°-60°)	1217.5	8.1	B2/2500		
BH (60°-80°)	214.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.3	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





REPORT NUMBER: P529375

CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6
2.5°	5403.4	5355.5	5403.4	5409.0	5442.8	5473.8	5454.1	5499.2	5473.8	5445.7	5437.2
5°	4966.7	5031.5	5034.3	5135.8	5113.2	5299.2	5380.9	5358.3	5496.4	5487.9	5468.2
7.5°	4575.1	4549.8	4583.6	4701.9	4851.2	5065.3	5183.7	5180.8	5378.0	5518.9	5504.8
10°	4211.7	4208.9	4279.3	4372.3	4499.1	4724.4	4887.8	4969.5	5276.6	5490.7	5521.7
12.5°	3966.6	3955.4	4031.4	4107.5	4307.5	4482.2	4690.6	4730.1	5082.2	5392.1	5442.8
15°	3806.0	3831.4	3837.0	3983.5	4110.3	4341.3	4504.7	4586.4	4992.1	5313.2	5507.6
17.5°	3777.9	3811.7	3814.5	3935.6	4070.9	4265.2	4408.9	4518.8	4916.0	5352.7	5510.4
20°	3834.2	3814.5	3831.4	3907.5	4039.9	4225.8	4434.3	4470.9	4890.7	5372.4	5541.4
22.5°	3994.8	3989.2	3946.9	4008.9	4101.8	4296.2	4493.4	4549.8	4963.9	5473.8	5566.8
25°	4172.3	4203.3	4163.8	4155.4	4220.2	4411.7	4673.7	4747.0	5209.0	5656.9	5645.7
27.5°	4504.7	4473.7	4473.7	4434.3	4417.4	4510.3	4868.1	4989.3	5482.3	5893.6	5735.8
30°	4823.1	4856.9	4831.5	4845.6	4732.9	4724.4	5144.2	5293.5	5966.8	6254.2	5927.4
32.5°	5327.3	5282.3	5324.5	5287.9	5138.6	4986.4	5518.9	5673.8	6552.8	6668.3	6214.7
35°	5747.1	5727.4	5907.7	5902.0	5659.8	5510.4	5916.1	6147.1	6961.3	7164.1	6552.8
37.5°	6344.3	6307.7	6513.4	6612.0	6395.1	6172.5	6485.2	6752.8	7341.6	7561.4	6899.3
40°	6958.5	7051.5	7327.5	7490.9	7259.9	6964.1	7181.1	7262.7	7595.2	7820.6	7136.0
42.5°	7736.0	7871.3	8153.0	8293.8	8274.1	7953.0	7888.2	7885.4	7778.3	7747.3	7310.6
45°	8482.6	8431.9	8865.7	9172.8	9420.7	9327.8	8569.9	8485.4	8068.5	7857.2	7355.7
47.5°	8809.4	8792.5	9088.3	9634.8	10480.0	10595.5	9561.6	9234.8	8558.7	8319.2	7600.8
50°	8386.8	8474.1	8767.1	9372.8	10668.7	11550.5	10778.6	10339.1	9130.6	8882.6	8181.2
52.5°	7006.4	7065.5	7344.4	8113.5	10026.4	12114.0	11944.9	11691.4	10181.4	9770.1	9192.5
54°	5761.2	5918.9	6071.1	6843.0	8882.6	11801.3	12584.4	12390.1	10866.0	10508.2	9829.2
55°	5017.4	5110.4	5220.3	5989.4	8091.0	11271.6	12511.2	12528.1	11325.2	10739.2	10257.4
57.5°	3665.2	3730.0	3617.3	3958.2	5555.5	9153.1	11443.5	11899.9	11944.9	11085.7	10519.4
60°	2800.3	2828.5	2701.7	2755.2	3453.9	6282.4	8851.7	9401.0	10775.8	9688.4	8910.8
62.5°	2172.1	2177.7	2174.9	2267.8	2380.5	3696.2	5535.8	6023.2	7429.0	6879.6	6051.4
65°	1600.2	1574.8	1619.9	1901.6	2031.2	2324.2	2915.8	3270.8	4037.1	3408.8	2436.9
67.5°	1036.7	1045.2	1090.3	1414.2	1741.0	1783.3	1794.6	1766.4	1769.2	974.8	611.3
70°	622.6	636.7	622.6	800.1	1245.2	1279.0	1169.1	1141.0	890.2	231.0	228.2
72.5°	369.1	349.3	312.7	343.7	518.4	619.8	557.8	555.0	349.3	135.2	135.2
75°	154.9	140.9	115.5	104.2	138.0	132.4	132.4	118.3	93.0	90.2	84.5
77.5°	31.0	31.0	22.5	25.4	33.8	39.4	47.9	47.9	56.3	56.3	53.5
80°	0.0	2.8	8.5	16.9	25.4	36.6	42.3	42.3	47.9	47.9	39.4
82.5°	0.0	2.8	8.5	16.9	22.5	33.8	42.3	42.3	47.9	50.7	42.3
85°	0.0	2.8	8.5	14.1	22.5	28.2	28.2	25.4	19.7	16.9	11.3
87.5°	0.0	0.0	2.8	5.6	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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: P529375

CATALOG NUMBER: GALN-SA4C-735-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6
2.5°	5456.9	5454.1	5386.5	5276.6	5251.3	5158.3	5147.0	5090.7	5121.7	5017.4	5006.2
5°	5411.8	5378.0	5296.3	5225.9	5020.3	4873.8	4758.3	4617.4	4535.7	4549.8	4496.3
7.5°	5476.6	5389.3	5245.6	5000.5	4749.8	4493.4	4355.4	4068.0	3963.8	3808.9	3786.3
10°	5409.0	5344.2	5121.7	4716.0	4369.5	4000.4	3676.4	3358.1	3115.8	3011.6	2989.1
12.5°	5403.4	5290.7	4918.8	4468.1	3966.6	3437.0	2966.5	2569.3	2329.8	2194.6	2163.6
15°	5316.1	5180.8	4690.6	4084.9	3391.9	2732.7	2220.0	1836.8	1653.7	1574.8	1597.4
17.5°	5324.5	5121.7	4462.4	3679.3	2825.7	2005.8	1515.7	1318.5	1270.6	1290.3	1290.3
20°	5316.1	4989.3	4186.4	3211.6	2163.6	1391.7	1112.8	1042.4	1073.4	1135.3	1121.2
22.5°	5271.0	4927.3	3932.8	2718.6	1591.7	1031.1	893.1	895.9	943.8	1019.8	1036.7
25°	5304.8	4789.2	3611.7	2220.0	1160.7	822.6	774.7	794.5	845.2	901.5	912.8
27.5°	5279.4	4690.6	3276.4	1724.1	848.0	707.1	704.3	726.8	749.4	791.6	791.6
30°	5307.6	4600.5	2946.8	1281.8	698.7	648.0	636.7	653.6	676.1	684.6	681.8
32.5°	5411.8	4532.9	2566.5	957.8	617.0	591.6	591.6	591.6	588.8	600.1	602.9
35°	5640.0	4544.1	2231.2	740.9	563.4	543.7	535.3	524.0	518.4	524.0	526.8
37.5°	5888.0	4538.5	1884.7	631.1	524.0	507.1	487.4	470.5	467.7	473.3	464.8
40°	5997.8	4592.0	1563.5	566.3	487.4	467.7	436.7	422.6	425.4	431.0	425.4
42.5°	6147.1	4608.9	1355.1	515.5	453.6	422.6	402.9	386.0	383.1	391.6	388.8
45°	6144.3	4513.2	1135.3	487.4	422.6	388.8	363.4	349.3	349.3	355.0	357.8
47.5°	6324.6	4499.1	974.8	462.0	400.0	366.2	335.2	324.0	321.2	321.2	315.5
50°	6744.4	4696.3	850.8	433.8	371.9	340.9	315.5	301.4	290.2	284.5	281.7
52.5°	7564.2	5310.4	755.0	400.0	340.9	315.5	293.0	281.7	267.6	253.5	250.7
54°	8358.6	5944.3	749.4	371.9	315.5	298.6	278.9	273.3	256.4	236.6	231.0
55°	8716.4	6313.4	769.1	349.3	298.6	287.4	270.5	264.8	247.9	225.4	222.6
57.5°	9012.2	6457.0	757.8	290.2	270.5	267.6	253.5	245.1	225.4	194.4	188.8
60°	7254.3	4882.2	543.7	256.4	247.9	242.3	231.0	225.4	200.0	166.2	163.4
62.5°	4583.6	2808.8	346.5	225.4	216.9	208.5	194.4	188.8	166.2	132.4	124.0
65°	1952.3	1163.5	233.8	200.0	185.9	171.8	160.6	152.1	132.4	98.6	95.8
67.5°	507.1	414.1	194.4	174.7	154.9	135.2	126.8	112.7	90.2	67.6	64.8
70°	228.2	208.5	163.4	146.5	124.0	104.2	93.0	78.9	59.2	45.1	42.3
72.5°	135.2	132.4	124.0	109.9	93.0	78.9	67.6	53.5	39.4	25.4	25.4
75°	84.5	81.7	84.5	76.1	64.8	59.2	50.7	36.6	22.5	11.3	11.3
77.5°	50.7	50.7	50.7	47.9	45.1	45.1	36.6	22.5	11.3	2.8	2.8
80°	39.4	39.4	42.3	39.4	39.4	39.4	31.0	16.9	5.6	0.0	0.0
82.5°	39.4	42.3	47.9	45.1	39.4	33.8	28.2	16.9	5.6	0.0	0.0
85°	11.3	8.5	14.1	19.7	28.2	25.4	19.7	14.1	5.6	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	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)