

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: P530079

Luminaire Tested: **GALN-SA5B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15524 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

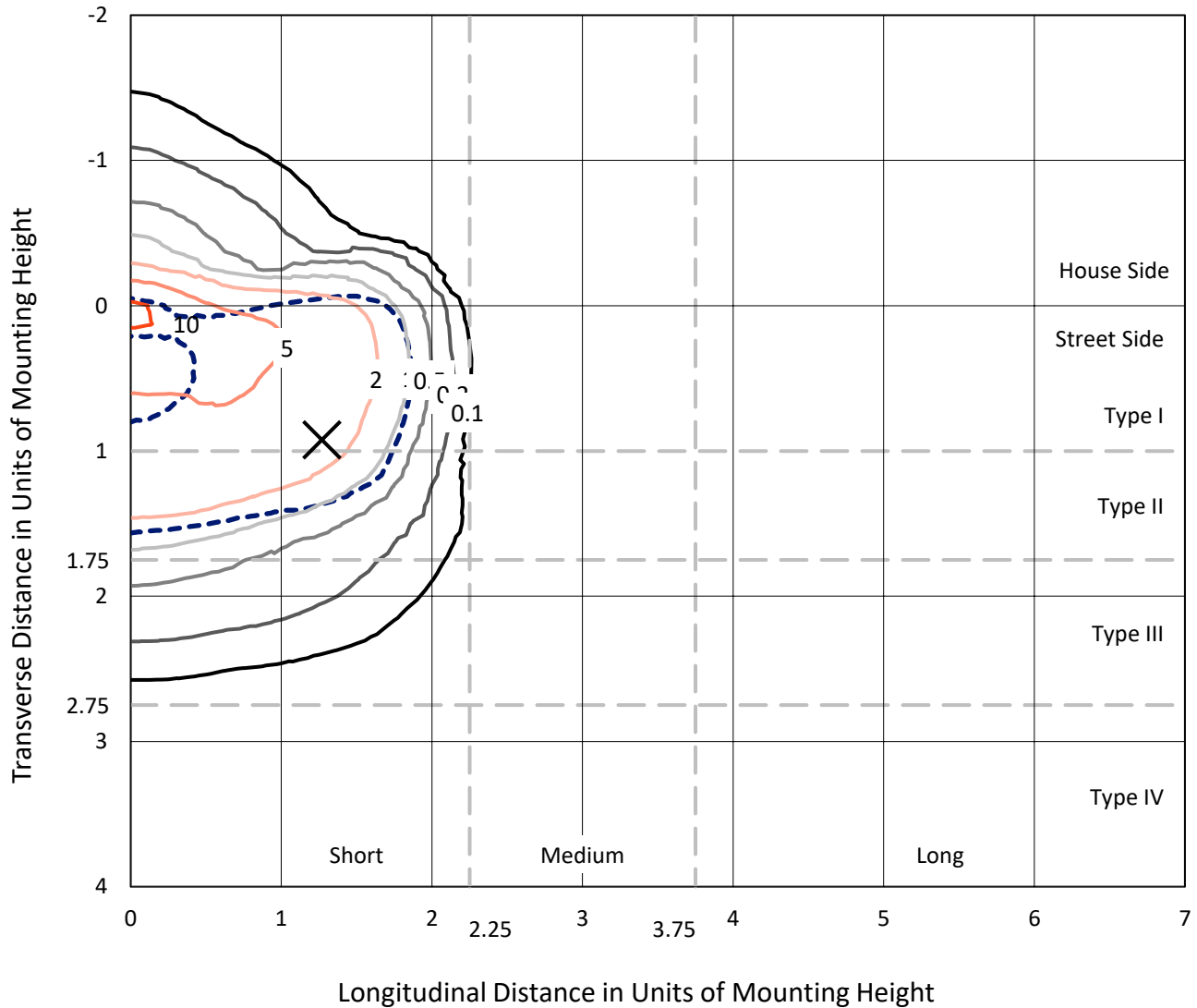
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

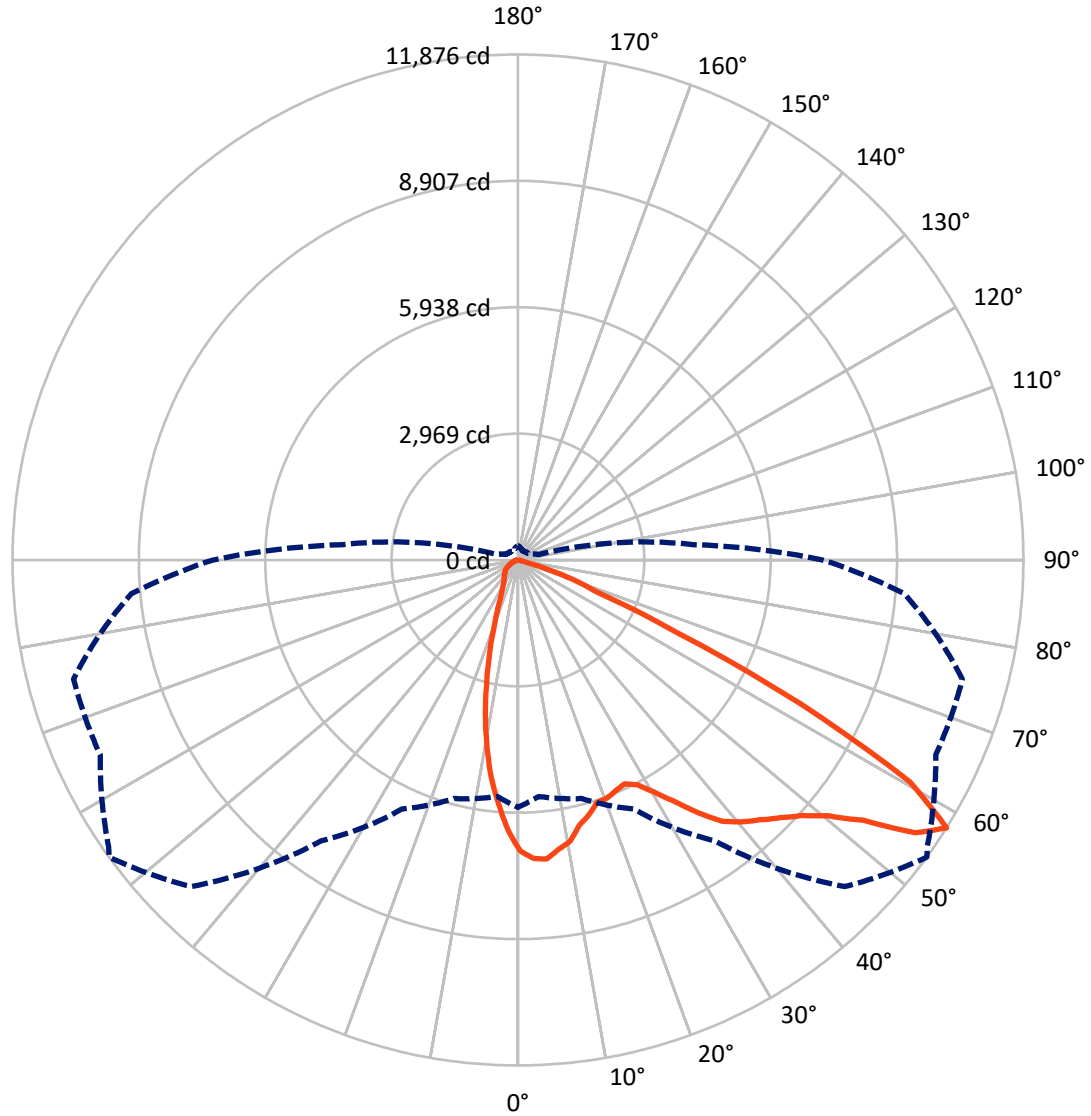
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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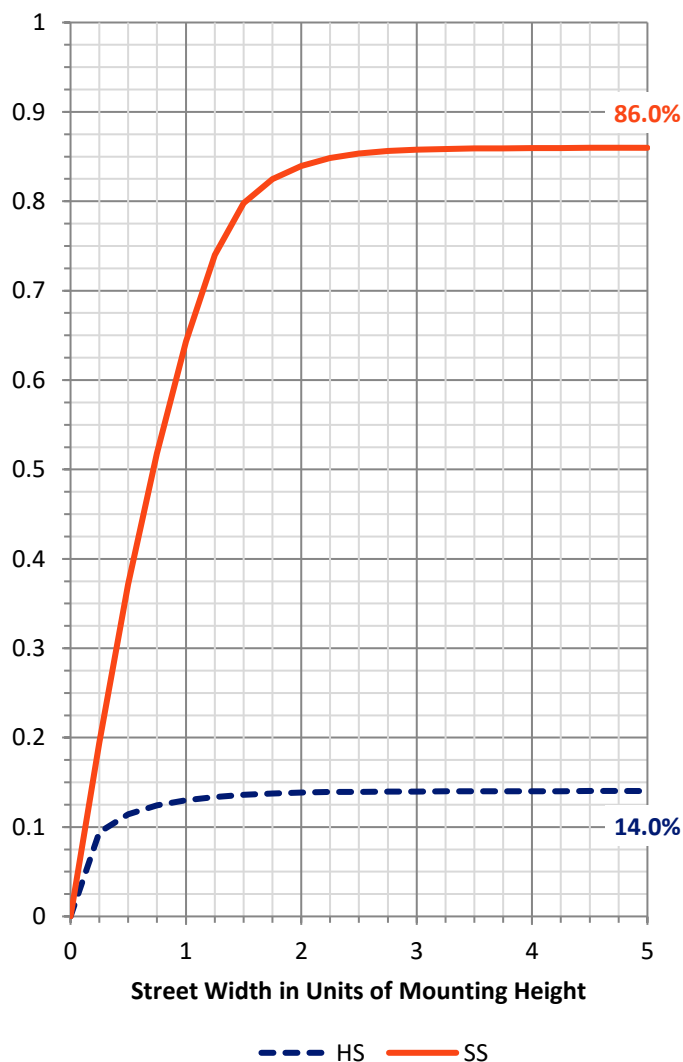
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2193.8	0.0	2193.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13330.2	0.0	13330.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	15524.0	0.0	15524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.3	3.7
10°-20°	1221.8	7.9
20°-30°	1619.1	10.4
30°-40°	2353.0	15.2
40°-50°	3489.2	22.5
50°-60°	4363.0	28.1
60°-70°	1721.0	11.1
70°-80°	171.4	1.1
80°-90°	13.3	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°	15524.0	100.0
0°-180°	15524.0	100.0

**Coefficient of Utilization**



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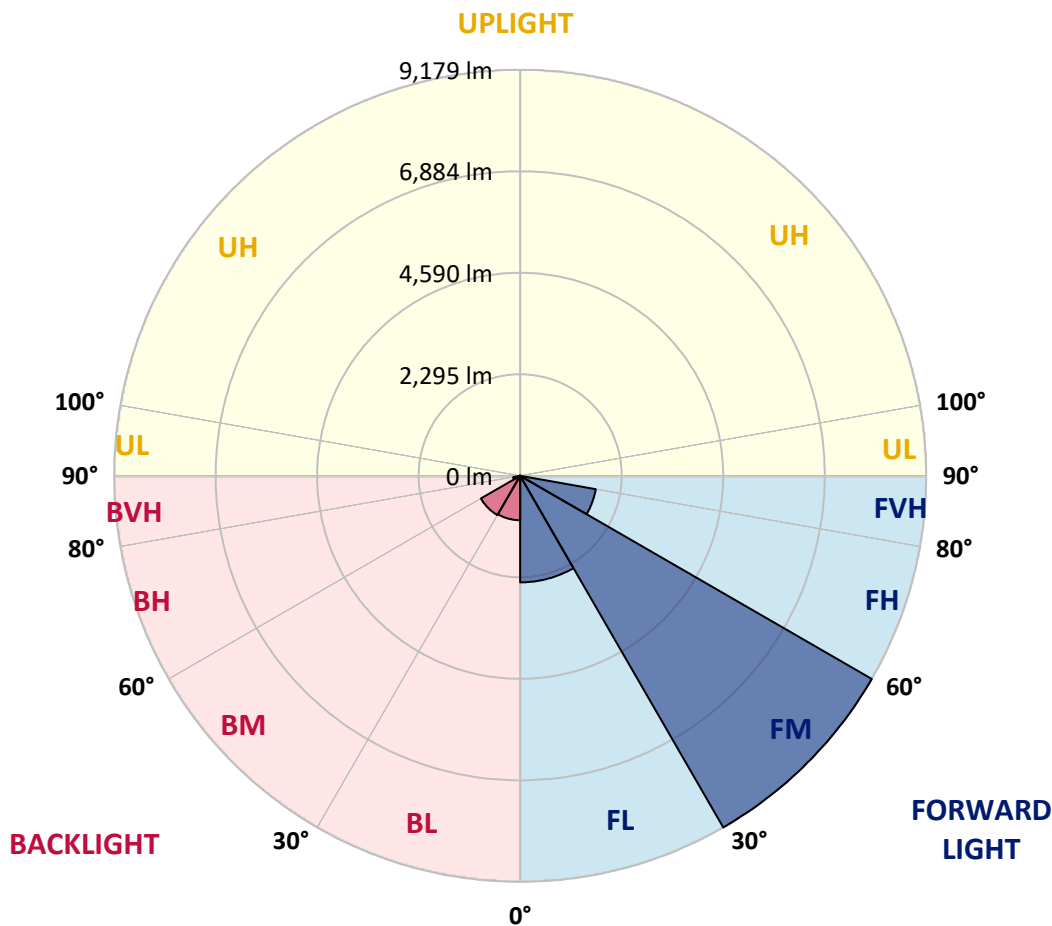
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.8	15.5			
FM (30°-60°)	9179.3	59.1			
FH (60°-80°)	1735.1	11.2			G1/1800
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	1003.3	6.5	B3/2500		
BM (30°-60°)	1025.9	6.6	B2/2500		
BH (60°-80°)	157.3	1.0	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			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°	54°	55°	65°	75°	85°
0°	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5
2.5°	7236.9	7161.8	7167.6	7141.6	7107.0	7133.0	7020.4	7046.4	7043.5	6890.5	6789.5
5°	7055.0	7135.9	7052.1	7121.4	7055.0	7127.2	7057.9	7006.0	6922.2	6809.7	6622.0
7.5°	6746.2	6668.2	6691.3	6777.9	6792.3	6954.0	6867.4	6933.8	6899.2	6676.9	6420.0
10°	6125.5	6108.2	6223.7	6339.1	6480.6	6653.8	6720.2	6682.7	6656.7	6573.0	6229.4
12.5°	5649.2	5698.3	5695.4	5885.9	6125.5	6223.7	6396.9	6391.1	6535.4	6379.5	6050.5
15°	5196.0	5222.0	5343.2	5461.6	5727.2	6007.2	6220.8	6249.6	6422.8	6313.2	5911.9
17.5°	4918.9	4881.4	4976.6	5118.1	5389.4	5756.0	5992.7	6062.0	6298.7	6275.6	5753.1
20°	4644.7	4644.7	4722.6	4890.0	5138.3	5551.1	5972.5	5952.3	6298.7	6232.3	5582.8
22.5°	4552.3	4598.5	4618.7	4745.7	5040.1	5395.2	5885.9	5923.5	6347.8	6212.1	5507.8
25°	4679.3	4618.7	4624.5	4725.5	5002.6	5320.1	5822.4	5906.1	6437.3	6313.2	5447.2
27.5°	4699.5	4760.1	4777.4	4846.7	5031.5	5343.2	5981.2	6151.5	6659.6	6549.9	5464.5
30°	4875.6	4936.2	4933.3	5051.7	5178.7	5530.9	6336.2	6370.9	7118.5	6847.2	5571.3
32.5°	5089.2	5152.7	5172.9	5311.5	5412.5	5874.4	6769.3	6858.7	7560.2	7314.8	5851.3
35°	5354.8	5331.7	5424.1	5562.6	5779.1	6376.7	7297.5	7447.6	8036.5	7921.0	6140.0
37.5°	5686.7	5657.9	5747.4	5972.5	6267.0	6971.3	7785.4	7883.5	8382.9	8483.9	6674.0
40°	5920.6	5932.1	6203.5	6506.6	6818.3	7537.1	8094.2	8189.5	8625.4	9009.3	7078.1
42.5°	6310.3	6382.4	6708.6	7078.1	7404.3	7961.4	8345.4	8437.7	8738.0	9430.8	7623.7
45°	6876.1	6844.3	7205.1	7617.9	7978.8	8403.1	8642.7	8610.9	8804.4	9849.3	7967.2
47.5°	7603.5	7609.3	7848.9	8201.0	8576.3	8787.0	8974.7	8862.1	8942.9	10291.0	8426.2
50°	8100.0	8143.3	8336.7	8697.5	8885.2	9208.5	9448.1	9378.8	9352.8	10556.6	8714.9
52.5°	8227.0	8356.9	8460.8	8911.2	9349.9	9860.9	10166.9	10314.1	9852.2	10646.1	9081.5
55°	7268.6	7384.1	7750.7	8368.5	9526.0	10894.3	11315.8	11318.6	10504.6	11044.4	9338.4
57.5°	5810.9	5577.1	5802.2	6457.5	8053.8	10851.0	11875.8	11740.1	10830.8	10810.6	9116.1
60°	4018.3	3960.5	3975.0	4234.8	5574.2	8631.2	10582.5	10758.6	9973.5	9370.1	7216.7
62.5°	3184.0	3134.9	3071.4	3042.6	3461.1	5377.9	7464.9	7713.2	6974.2	6076.4	4278.1
65°	2494.1	2465.2	2473.9	2589.3	2586.5	3051.2	4081.8	3980.7	3186.9	2355.5	1345.2
67.5°	1682.9	1726.2	1760.9	2110.2	2289.1	2124.6	1971.6	1913.9	1036.3	435.9	297.3
70°	946.8	952.6	990.1	1319.2	1737.8	1648.3	1359.6	1359.6	516.7	158.8	170.3
72.5°	516.7	499.4	464.8	568.7	773.6	785.2	606.2	528.3	153.0	103.9	95.3
75°	251.1	248.3	213.6	176.1	167.4	138.6	106.8	98.1	69.3	66.4	57.7
77.5°	52.0	49.1	26.0	26.0	28.9	31.8	40.4	40.4	49.1	49.1	40.4
80°	0.0	0.0	2.9	11.5	20.2	28.9	34.6	34.6	40.4	40.4	31.8
82.5°	0.0	0.0	2.9	8.7	17.3	26.0	31.8	34.6	40.4	43.3	34.6
85°	0.0	0.0	0.0	5.8	14.4	20.2	17.3	17.3	14.4	11.5	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5	6838.5
2.5°	6737.5	6731.7	6598.9	6523.9	6388.2	6269.9	6174.6	6105.3	6105.3	6062.0	6021.6
5°	6547.0	6497.9	6215.0	6033.1	5776.2	5585.7	5455.8	5354.8	5196.0	5239.3	5069.0
7.5°	6310.3	6186.1	5810.9	5533.8	5178.7	4907.3	4630.2	4384.9	4148.2	4041.3	4099.1
10°	6056.2	5839.7	5334.6	4895.8	4454.1	3957.6	3634.3	3241.7	2999.3	2984.8	2921.3
12.5°	5787.8	5542.4	4927.6	4321.4	3741.1	3143.6	2650.0	2283.4	2118.8	1937.0	1971.6
15°	5585.7	5222.0	4474.3	3744.0	2973.3	2370.0	1873.5	1590.6	1434.7	1391.4	1376.9
17.5°	5366.3	4976.6	4012.5	3129.2	2332.4	1706.0	1348.1	1212.4	1151.8	1151.8	1143.1
20°	5138.3	4699.5	3553.5	2557.6	1749.3	1273.0	1079.6	1036.3	1033.4	1030.5	1030.5
22.5°	4988.2	4382.0	3137.8	2032.2	1319.2	1019.0	938.2	920.8	932.4	967.0	967.0
25°	4829.4	4076.0	2678.8	1567.5	1021.9	874.7	828.5	840.0	868.9	900.6	889.1
27.5°	4667.8	3876.8	2245.8	1229.7	837.1	765.0	747.6	773.6	805.4	834.2	825.6
30°	4630.2	3663.2	1835.9	932.4	718.8	666.8	678.4	701.5	733.2	744.8	756.3
32.5°	4688.0	3495.8	1504.0	765.0	626.4	612.0	612.0	623.5	643.7	669.7	661.0
35°	4852.5	3400.5	1189.3	663.9	574.4	560.0	557.1	568.7	580.2	588.9	580.2
37.5°	5103.6	3325.4	972.8	588.9	539.8	516.7	510.9	508.1	519.6	522.5	528.3
40°	5424.1	3365.9	825.6	542.7	505.2	479.2	461.9	461.9	461.9	470.5	473.4
42.5°	5770.5	3420.7	713.0	516.7	473.4	441.7	424.3	418.6	424.3	435.9	433.0
45°	6134.2	3527.5	640.8	476.3	444.5	404.1	381.0	375.3	389.7	412.8	409.9
47.5°	6474.8	3680.5	586.0	450.3	415.7	378.2	349.3	343.5	369.5	401.2	404.1
50°	6815.4	3946.1	565.8	430.1	395.5	352.2	326.2	320.4	349.3	389.7	398.4
52.5°	7208.0	4231.9	551.4	404.1	372.4	332.0	303.1	297.3	329.1	381.0	383.9
55°	7464.9	4474.3	539.8	357.9	329.1	300.2	277.1	274.2	308.9	355.1	366.6
57.5°	7164.7	4136.6	499.4	311.8	280.0	265.6	245.4	245.4	274.2	317.5	326.2
60°	5432.7	2722.1	355.1	251.1	236.7	228.0	219.4	219.4	242.5	274.2	277.1
62.5°	3181.1	1466.4	228.0	202.1	202.1	193.4	179.0	179.0	202.1	219.4	222.3
65°	943.9	470.5	184.7	173.2	170.3	155.9	141.4	138.6	155.9	164.5	161.7
67.5°	271.3	216.5	153.0	144.3	141.4	118.4	109.7	106.8	109.7	103.9	101.0
70°	161.7	147.2	118.4	121.2	106.8	86.6	77.9	75.1	69.3	60.6	54.8
72.5°	89.5	89.5	86.6	92.4	75.1	57.7	49.1	40.4	31.8	26.0	23.1
75°	54.8	57.7	60.6	63.5	49.1	37.5	31.8	20.2	11.5	5.8	5.8
77.5°	37.5	40.4	43.3	46.2	40.4	34.6	26.0	14.4	2.9	0.0	0.0
80°	28.9	31.8	37.5	40.4	43.3	46.2	34.6	14.4	2.9	0.0	0.0
82.5°	31.8	34.6	43.3	40.4	40.4	40.4	31.8	14.4	2.9	0.0	0.0
85°	5.8	8.7	14.4	14.4	20.2	26.0	20.2	5.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)