

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: P531597

Luminaire Tested: **GALN-SA6D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20138 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

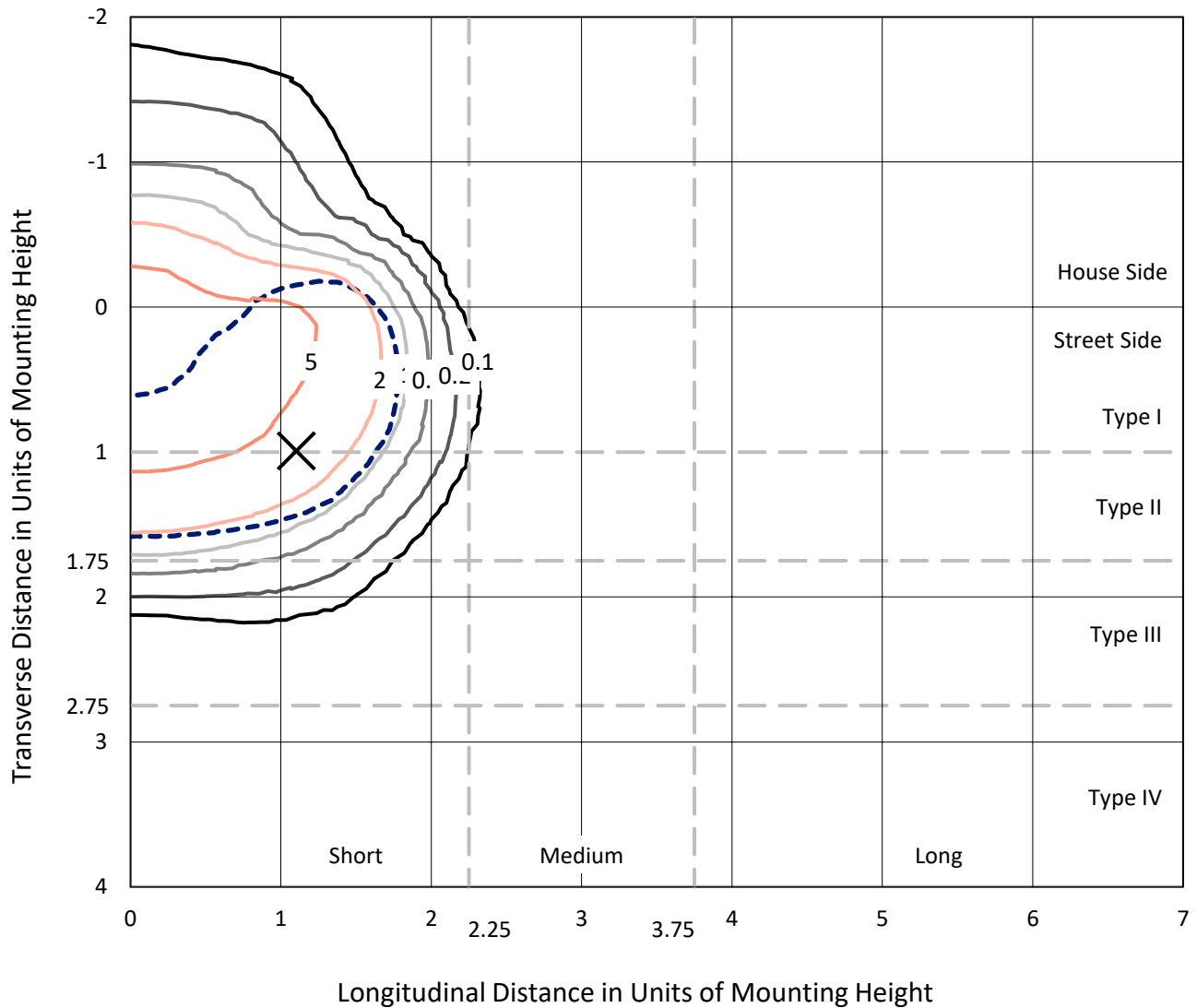
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

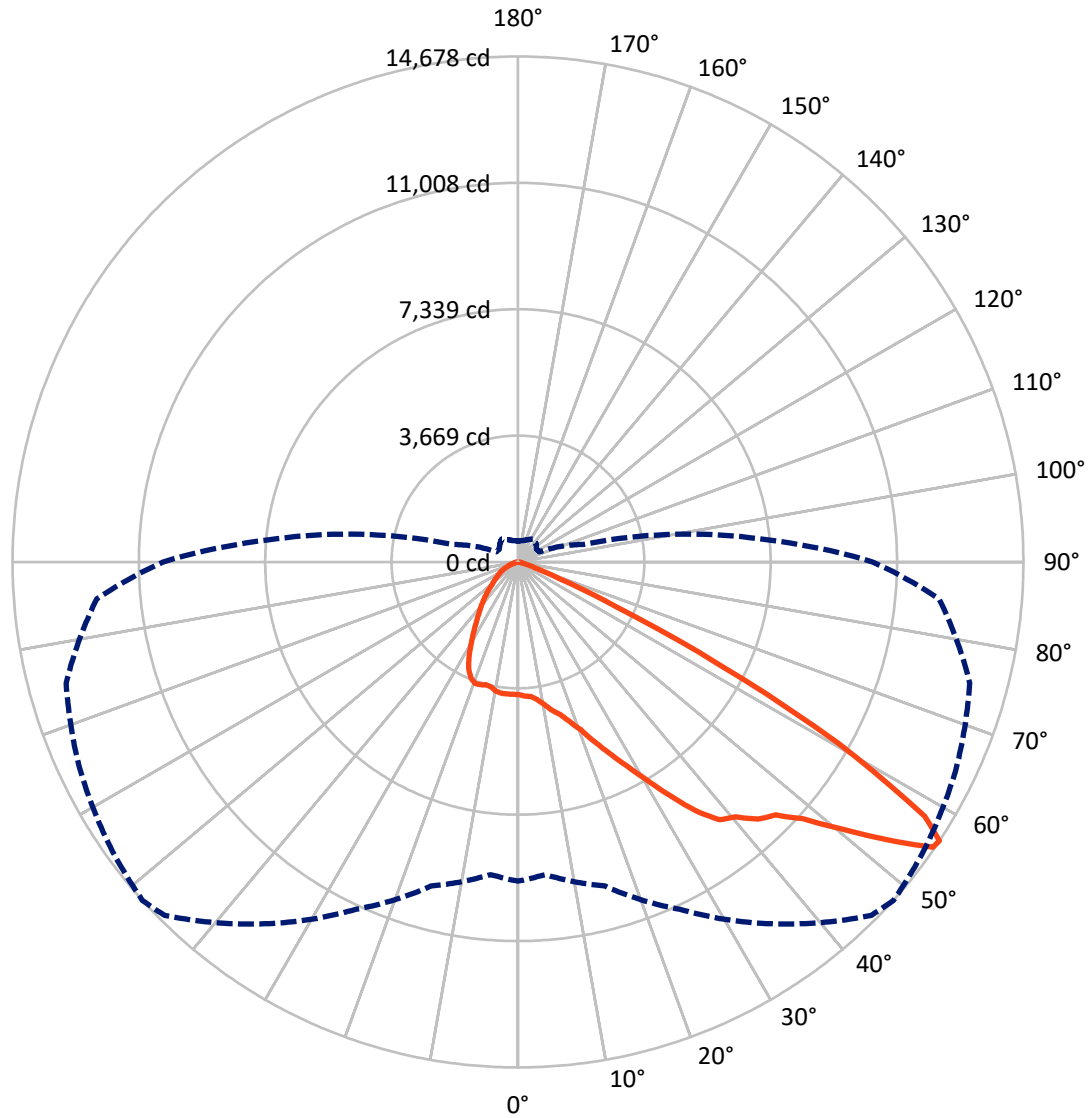
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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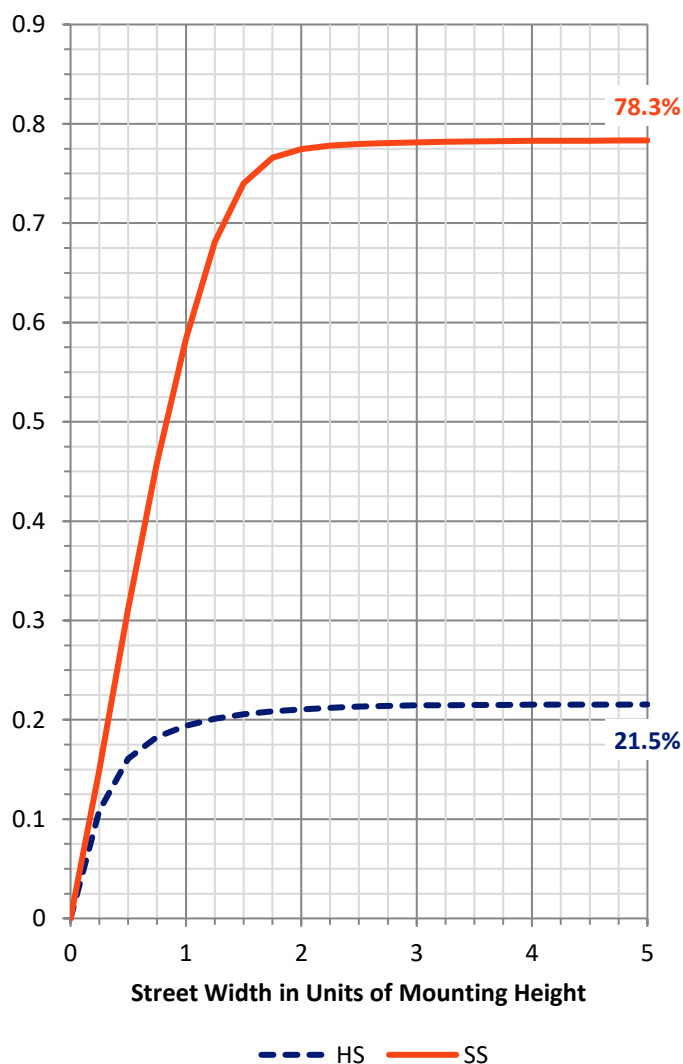
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4379.6	0.0	4379.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15758.4	0.0	15758.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	20138.0	0.0	20138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	1.9
10°-20°	1197.4	5.9
20°-30°	2171.9	10.8
30°-40°	3411.6	16.9
40°-50°	4976.8	24.7
50°-60°	5996.1	29.8
60°-70°	1755.6	8.7
70°-80°	222.7	1.1
80°-90°	31.2	0.2
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°	20138.0	100.0
0°-180°	20138.0	100.0

Coefficient of Utilization

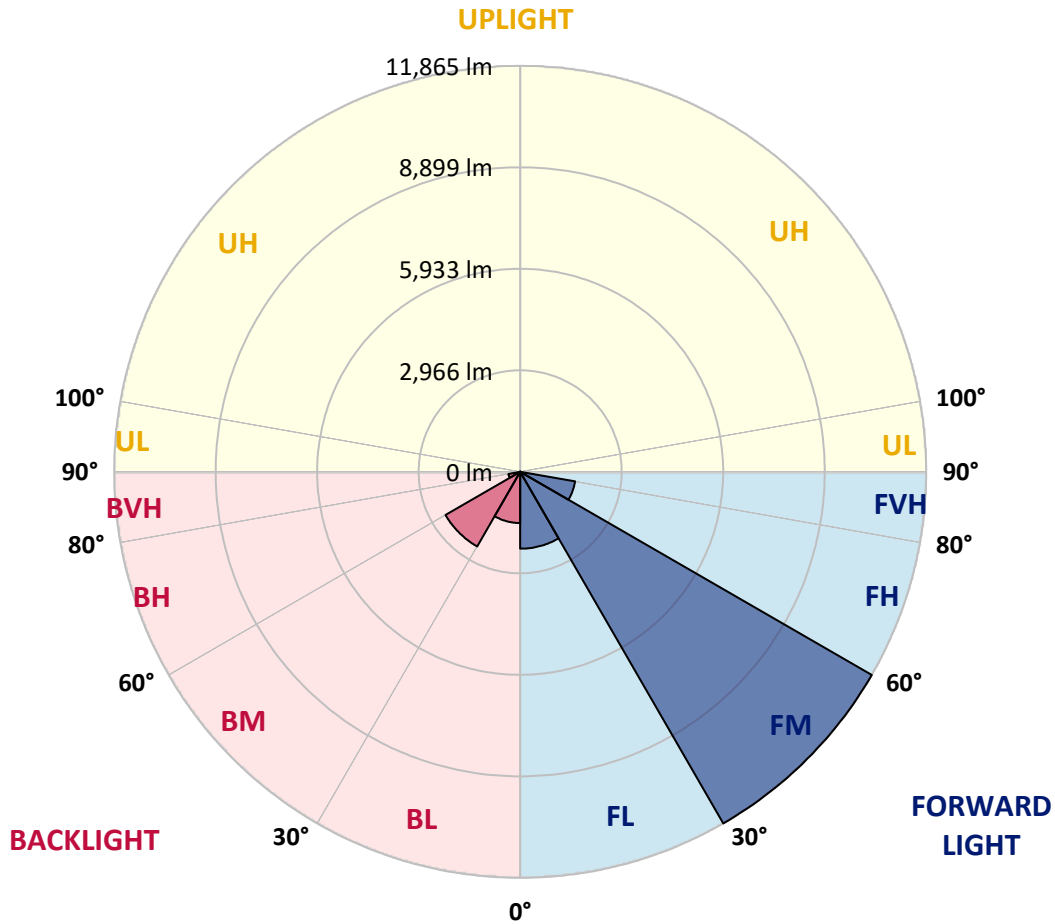


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2247.0	11.2			
FM (30°-60°)	11865.4	58.9			
FH (60°-80°)	1630.3	8.1			G1/1800
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1496.9	7.4	B3/2500		
BM (30°-60°)	2519.1	12.5	B3/5000		
BH (60°-80°)	348.0	1.7	B1/500		G1/500
BVH (80°-90°)	15.6	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4
2.5°	3916.0	3897.7	3897.7	3868.4	3901.4	3886.7	3897.7	3861.0	3897.7	3842.7	3886.7
5°	3934.4	3938.0	3923.4	3941.7	3941.7	3963.7	3927.0	3960.0	3978.4	3938.0	3919.7
7.5°	4029.7	4037.0	4033.4	4018.7	4048.0	4044.4	4040.7	4015.0	4022.4	4007.7	3985.7
10°	4216.7	4213.0	4231.4	4194.7	4172.7	4198.4	4205.7	4165.4	4136.0	4125.0	4055.4
12.5°	4488.0	4444.0	4418.4	4381.7	4392.7	4356.0	4422.0	4352.4	4337.7	4271.7	4202.0
15°	4708.0	4700.7	4704.4	4645.7	4579.7	4594.4	4594.4	4557.7	4535.7	4455.0	4356.0
17.5°	5159.0	5005.0	5038.0	4964.7	4909.7	4906.0	4873.0	4880.4	4821.7	4653.0	4502.7
20°	5511.0	5445.0	5393.7	5269.0	5184.7	5210.4	5195.7	5159.0	5140.7	4920.7	4708.0
22.5°	5826.4	5848.4	5764.1	5731.0	5613.7	5624.7	5654.0	5621.0	5481.7	5254.4	4939.0
25°	6270.1	6244.4	6130.7	6090.4	5980.4	6020.7	6134.4	6108.7	6020.7	5610.0	5118.7
27.5°	6794.4	6706.4	6728.4	6545.1	6438.7	6552.4	6688.1	6816.4	6567.1	6028.1	5331.4
30°	7164.7	7073.1	7065.7	7058.4	7032.7	7164.7	7322.4	7439.7	7238.1	6446.1	5683.4
32.5°	7348.1	7370.1	7432.4	7410.4	7634.1	7905.4	8070.4	8239.1	7986.1	7128.1	6149.1
35°	7835.7	7696.4	7835.7	7850.4	8081.4	8657.1	8866.1	9269.4	9207.1	8092.4	6717.4
37.5°	8121.7	8110.7	8129.1	8268.4	8492.1	9203.4	9500.4	9812.1	9694.8	8671.7	7425.1
40°	8594.7	8624.1	8620.4	8726.7	8972.4	9614.1	9735.1	9988.1	9999.1	9474.7	8466.4
42.5°	9353.7	9236.4	9159.4	9269.4	9614.1	9969.8	10211.8	10160.4	10523.4	10450.1	9804.8
45°	10035.8	10105.4	9991.8	10175.1	10299.8	10490.4	10483.1	10593.1	11055.1	11403.4	10813.1
47.5°	10673.8	10717.8	10772.8	10897.4	11168.8	11198.1	11135.8	11088.1	11726.1	12085.4	11594.1
50°	11055.1	11095.4	11352.1	11575.8	12081.8	12147.8	12184.4	12063.4	12496.1	12536.4	12331.1
52.5°	10952.4	10996.4	11355.8	12092.8	12899.4	13504.5	13394.4	13189.1	13163.4	13321.1	13013.1
55°	10043.1	10002.8	10497.8	11645.4	13156.1	14608.1	14622.8	14406.5	13992.1	13885.8	12910.4
56°	9269.4	9111.7	9742.4	11128.4	12826.1	14512.8	14677.8	14446.8	14058.1	13581.5	12276.1
57.5°	7593.7	7744.1	8371.1	9518.7	11685.8	13827.1	13922.5	13867.5	13574.1	12774.8	10802.1
60°	4187.4	4451.4	5005.0	6409.4	8319.7	10611.4	10688.4	11135.8	11190.8	9782.8	7432.4
62.5°	1778.3	1749.0	2324.7	3358.7	4737.4	6405.7	6548.7	7007.1	7091.4	5639.4	3729.0
65°	722.3	762.7	1052.3	1690.3	2504.4	2918.7	3120.4	3270.7	3549.4	2328.4	1375.0
67.5°	476.7	473.0	619.7	964.3	1349.3	1301.7	1301.7	1375.0	1272.3	949.7	594.0
70°	341.0	352.0	443.7	667.3	839.7	623.3	597.7	572.0	649.0	627.0	480.3
72.5°	223.7	238.3	297.0	399.7	436.3	341.0	341.0	410.7	535.3	506.0	392.3
75°	146.7	150.3	183.3	231.0	216.3	176.0	194.3	275.0	388.7	374.0	278.7
77.5°	99.0	102.7	124.7	150.3	121.0	99.0	106.3	139.3	190.7	190.7	146.7
80°	36.7	40.3	51.3	47.7	55.0	69.7	77.0	95.3	113.7	113.7	99.0
82.5°	0.0	3.7	11.0	25.7	40.3	55.0	62.3	73.3	84.3	95.3	91.7
85°	0.0	3.7	11.0	18.3	29.3	33.0	36.7	25.7	22.0	22.0	18.3
87.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.3	3.7	3.7
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°	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4	3846.4
2.5°	3846.4	3842.7	3842.7	3831.7	3853.7	3842.7	3850.0	3846.4	3798.7	3835.4	3809.7
5°	3886.7	3912.4	3872.0	3864.7	3835.4	3846.4	3846.4	3809.7	3842.7	3839.0	3831.7
7.5°	3989.4	3945.4	3901.4	3857.4	3850.0	3839.0	3798.7	3784.0	3809.7	3780.4	3824.4
10°	4033.4	4040.7	3974.7	3916.0	3861.0	3784.0	3729.0	3696.0	3655.7	3699.7	3725.4
12.5°	4235.0	4161.7	4048.0	3956.4	3769.4	3692.4	3637.4	3622.7	3692.4	3707.0	3681.4
15°	4304.7	4293.7	4147.0	3941.7	3747.4	3655.7	3666.7	3637.4	3644.7	3608.0	3615.4
17.5°	4447.7	4323.0	4150.7	3894.0	3743.7	3721.7	3655.7	3538.4	3472.4	3443.0	3468.7
20°	4605.4	4484.4	4235.0	3912.4	3776.7	3718.0	3501.7	3358.7	3223.0	3149.7	3153.4
22.5°	4744.7	4594.4	4198.4	3919.7	3806.0	3564.0	3303.7	3021.4	2852.7	2739.0	2742.7
25°	4913.4	4700.7	4213.0	3934.4	3729.0	3318.4	2944.4	2669.4	2467.7	2390.7	2416.4
27.5°	5008.7	4766.7	4293.7	3967.4	3527.4	2970.0	2566.7	2310.0	2192.7	2156.0	2152.4
30°	5294.7	4913.4	4392.7	3901.4	3190.0	2596.0	2222.0	2064.4	1950.7	1917.7	1925.0
32.5°	5720.0	5181.0	4521.0	3729.0	2845.4	2262.4	1998.4	1881.0	1774.7	1712.3	1705.0
35°	6075.7	5639.4	4656.7	3461.4	2445.7	2005.7	1840.7	1694.0	1532.7	1463.0	1444.7
37.5°	6754.1	6156.4	4627.4	3058.0	2064.4	1815.0	1672.0	1492.3	1353.0	1257.7	1246.7
40°	7656.1	6761.4	4484.4	2566.7	1782.0	1646.3	1492.3	1320.0	1147.7	1067.0	1059.7
42.5°	8752.4	7502.1	4224.0	2068.0	1499.7	1477.7	1338.3	1140.3	986.3	927.7	931.3
45°	9643.4	8136.4	3960.0	1661.0	1290.7	1312.7	1191.7	1004.7	898.3	850.7	850.7
47.5°	10435.4	8565.4	3674.0	1371.3	1096.3	1147.7	1041.3	931.3	839.7	803.0	795.7
50°	11198.1	9001.7	3388.0	1111.0	935.0	986.3	975.3	887.3	814.0	770.0	773.7
52.5°	11674.8	9071.4	3025.0	909.3	817.7	876.3	913.0	832.3	751.7	726.0	718.7
55°	11091.8	8173.1	2346.7	748.0	693.0	770.0	839.7	748.0	685.7	641.7	638.0
56°	10307.1	7307.7	1961.7	689.3	656.3	740.7	814.0	715.0	645.3	619.7	601.3
57.5°	8726.7	5980.4	1448.3	612.3	608.7	689.3	773.7	682.0	601.3	579.3	579.3
60°	5441.4	3366.0	876.3	513.3	528.0	612.3	696.7	608.7	535.3	535.3	546.3
62.5°	2478.7	1400.7	531.7	436.3	454.7	528.0	619.7	550.0	509.7	550.0	557.3
65°	843.3	605.0	385.0	348.3	359.3	436.3	531.7	557.3	553.7	579.3	594.0
67.5°	473.0	388.7	322.7	289.7	282.3	322.7	436.3	557.3	535.3	524.3	531.7
70°	399.7	330.0	286.0	256.7	245.7	260.3	337.3	421.7	377.7	366.7	359.3
72.5°	322.7	275.0	249.3	231.0	198.0	168.7	154.0	161.3	179.7	190.7	209.0
75°	227.3	209.0	209.0	187.0	143.0	106.3	84.3	69.7	47.7	33.0	36.7
77.5°	128.3	128.3	132.0	113.7	91.7	69.7	51.3	36.7	18.3	7.3	3.7
80°	88.0	95.3	102.7	91.7	77.0	62.3	44.0	25.7	11.0	0.0	0.0
82.5°	88.0	99.0	106.3	91.7	77.0	58.7	44.0	25.7	11.0	3.7	0.0
85°	18.3	22.0	25.7	29.3	44.0	44.0	33.0	22.0	11.0	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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)