

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: P533131

Luminaire Tested: **GALN-SA8C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533131
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-SA8C-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 31581 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

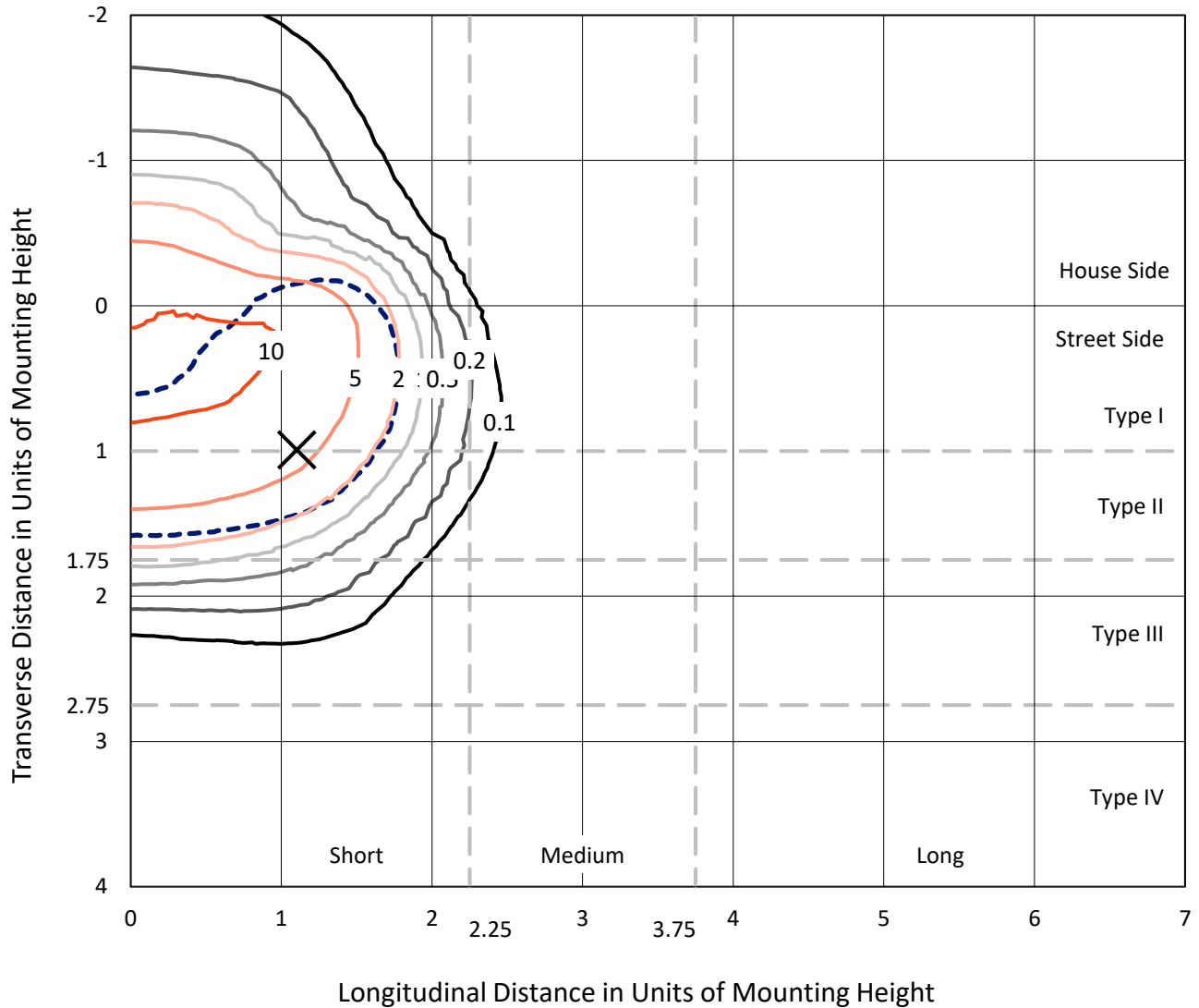
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

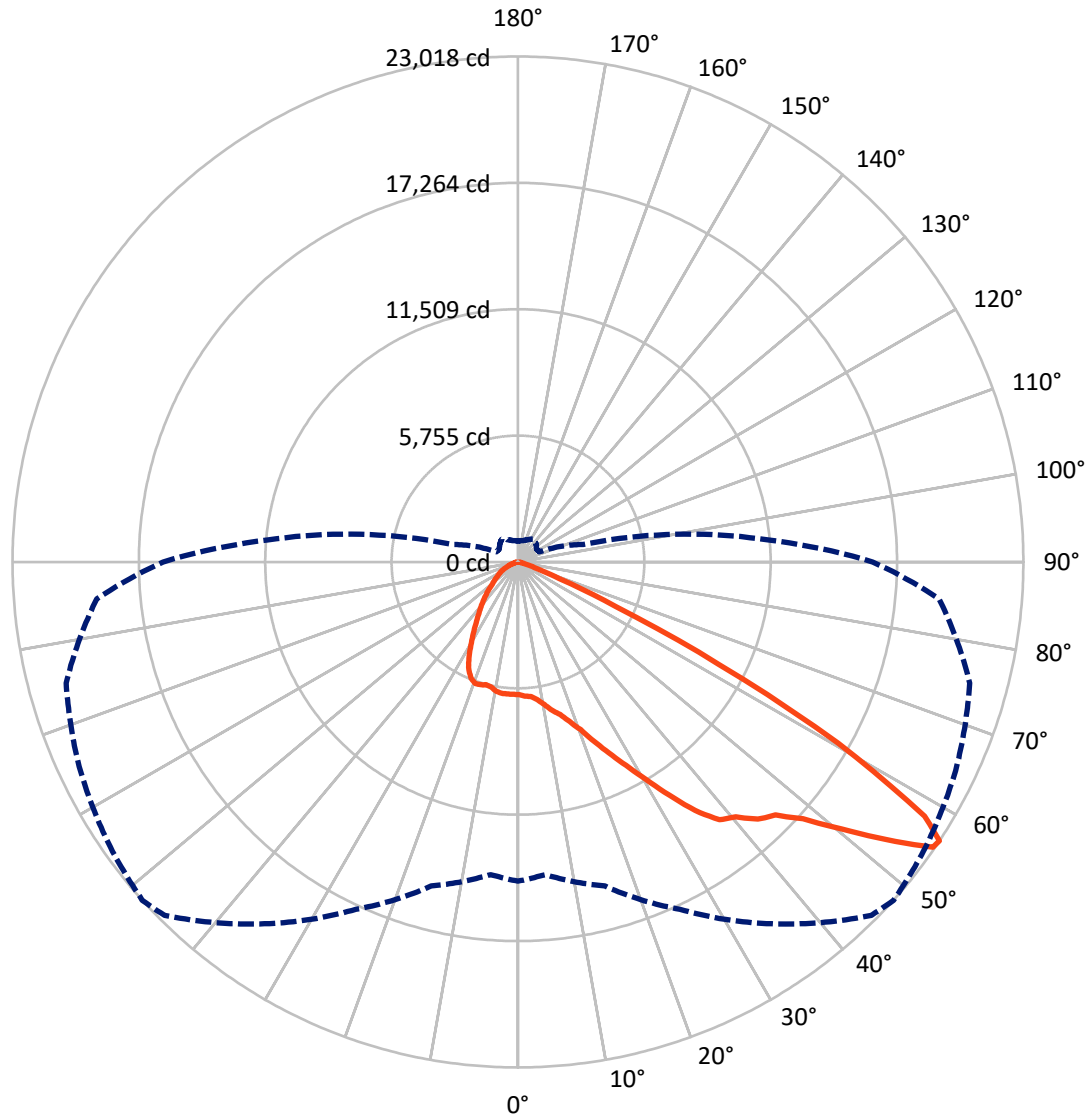
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	6868.3	0.0	6868.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24712.7	0.0	24712.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	31581.0	0.0	31581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.6	1.9
10°-20°	1877.8	5.9
20°-30°	3406.0	10.8
30°-40°	5350.1	16.9
40°-50°	7804.8	24.7
50°-60°	9403.3	29.8
60°-70°	2753.2	8.7
70°-80°	349.3	1.1
80°-90°	49.0	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°	31581.0	100.0
0°-180°	31581.0	100.0

Coefficient of Utilization

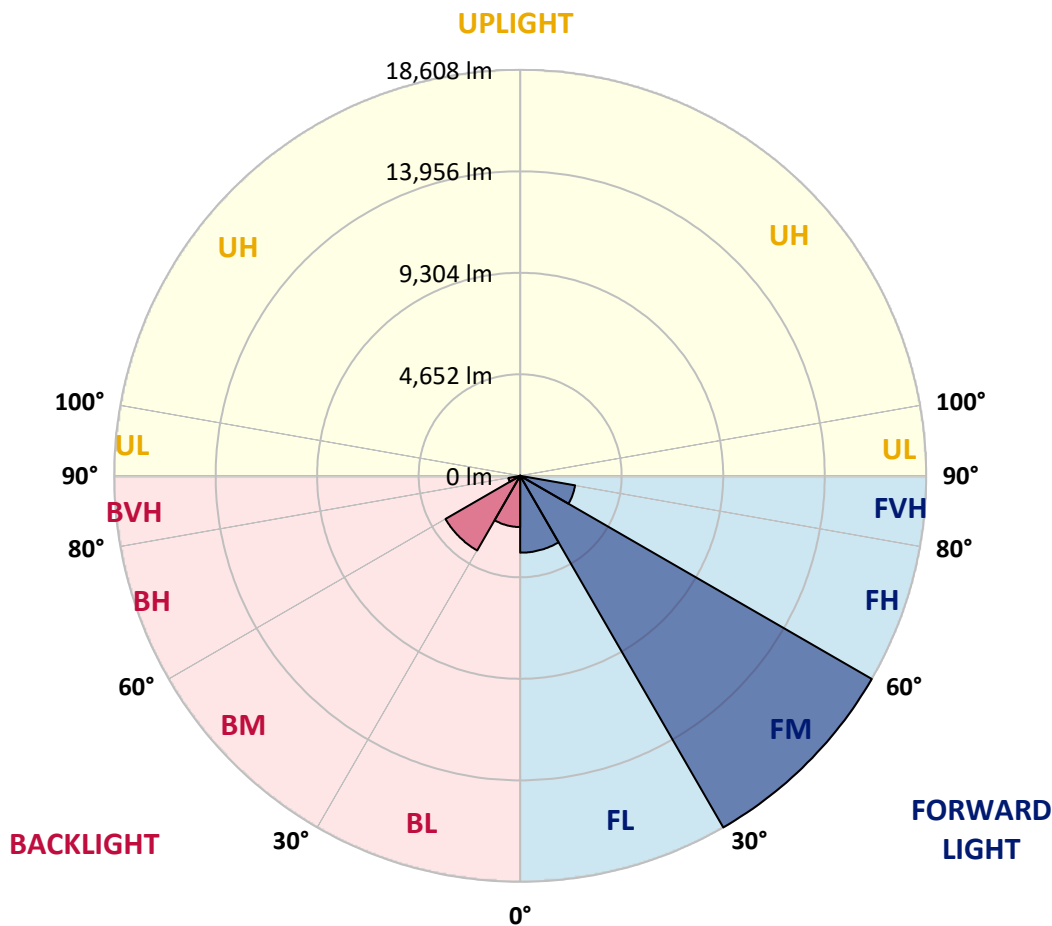


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.8	11.2			
FM (30°-60°)	18607.6	58.9			
FH (60°-80°)	2556.7	8.1			G2/5000
FVH (80°-90°)	24.6	0.1			G1/100
BL (0°-30°)	2347.5	7.4	B3/2500		
BM (30°-60°)	3950.6	12.5	B3/5000		
BH (60°-80°)	545.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	24.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0
2.5°	6141.2	6112.5	6112.5	6066.5	6118.2	6095.2	6112.5	6055.0	6112.5	6026.2	6095.2
5°	6170.0	6175.7	6152.7	6181.5	6181.5	6216.0	6158.5	6210.2	6239.0	6175.7	6147.0
7.5°	6319.5	6331.0	6325.2	6302.2	6348.2	6342.5	6336.7	6296.5	6308.0	6285.0	6250.5
10°	6612.8	6607.0	6635.8	6578.3	6543.8	6584.0	6595.5	6532.3	6486.3	6469.0	6359.7
12.5°	7038.3	6969.3	6929.0	6871.5	6888.8	6831.3	6934.8	6825.5	6802.5	6699.0	6589.8
15°	7383.3	7371.8	7377.5	7285.5	7182.0	7205.0	7205.0	7147.5	7113.0	6986.5	6831.3
17.5°	8090.6	7849.1	7900.8	7785.8	7699.5	7693.8	7642.0	7653.5	7561.5	7297.0	7061.3
20°	8642.6	8539.1	8458.6	8263.1	8130.8	8171.1	8148.1	8090.6	8061.8	7716.8	7383.3
22.5°	9137.1	9171.6	9039.4	8987.6	8803.6	8820.8	8866.8	8815.1	8596.6	8240.1	7745.6
25°	9832.9	9792.6	9614.4	9551.1	9378.6	9441.9	9620.1	9579.9	9441.9	8797.8	8027.3
27.5°	10655.2	10517.2	10551.7	10264.1	10097.4	10275.6	10488.4	10689.7	10298.7	9453.4	8360.8
30°	11235.9	11092.2	11080.7	11069.2	11028.9	11235.9	11483.2	11667.2	11350.9	10108.9	8912.8
32.5°	11523.4	11557.9	11655.7	11621.2	11972.0	12397.5	12656.2	12920.8	12524.0	11178.4	9643.1
35°	12288.2	12069.7	12288.2	12311.2	12673.5	13576.3	13904.0	14536.6	14438.8	12690.7	10534.4
37.5°	12736.7	12719.5	12748.2	12966.8	13317.5	14433.1	14898.8	15387.6	15203.6	13599.3	11644.2
40°	13478.5	13524.5	13518.8	13685.5	14070.8	15077.1	15266.8	15663.6	15680.9	14858.6	13277.3
42.5°	14668.8	14484.8	14364.1	14536.6	15077.1	15634.9	16014.4	15933.9	16503.1	16388.1	15376.1
45°	15738.4	15847.6	15669.4	15956.9	16152.4	16451.4	16439.9	16612.4	17336.9	17883.2	16957.4
47.5°	16738.9	16807.9	16894.2	17089.7	17515.2	17561.2	17463.4	17388.7	18389.2	18952.7	18182.2
50°	17336.9	17400.2	17802.7	18153.5	18947.0	19050.5	19108.0	18918.2	19596.8	19660.0	19338.0
52.5°	17175.9	17244.9	17808.4	18964.2	20229.3	21178.1	21005.6	20683.6	20643.3	20890.6	20407.5
55°	15749.9	15686.6	16462.9	18262.7	20631.8	22908.9	22931.9	22592.6	21942.9	21776.1	20246.5
56°	14536.6	14289.3	15278.3	17451.9	20114.3	22759.4	23018.1	22655.9	22046.4	21298.8	19251.7
57.5°	11908.7	12144.5	13127.8	14927.6	18326.0	21684.1	21833.6	21747.3	21287.3	20033.8	16940.2
60°	6566.8	6980.8	7849.1	10051.4	13047.3	16641.1	16761.9	17463.4	17549.7	15341.6	11655.7
62.5°	2788.9	2742.9	3645.6	5267.2	7429.3	10045.6	10269.9	10988.7	11120.9	8843.8	5848.0
65°	1132.8	1196.0	1650.3	2650.9	3927.4	4577.2	4893.4	5129.2	5566.2	3651.4	2156.3
67.5°	747.5	741.8	971.8	1512.3	2116.1	2041.3	2041.3	2156.3	1995.3	1489.3	931.5
70°	534.8	552.0	695.8	1046.5	1316.8	977.5	937.3	897.0	1017.8	983.3	753.3
72.5°	350.8	373.8	465.8	626.8	684.3	534.8	534.8	644.0	839.5	793.5	615.3
75°	230.0	235.8	287.5	362.3	339.3	276.0	304.8	431.3	609.5	586.5	437.0
77.5°	155.3	161.0	195.5	235.8	189.8	155.3	166.8	218.5	299.0	299.0	230.0
80°	57.5	63.3	80.5	74.8	86.3	109.3	120.8	149.5	178.3	178.3	155.3
82.5°	0.0	5.8	17.3	40.3	63.3	86.3	97.8	115.0	132.3	149.5	143.8
85°	0.0	5.8	17.3	28.8	46.0	51.8	57.5	40.3	34.5	34.5	28.8
87.5°	0.0	0.0	5.8	5.8	5.8	5.8	5.8	5.8	11.5	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°	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0
2.5°	6032.0	6026.2	6026.2	6009.0	6043.5	6026.2	6037.7	6032.0	5957.2	6014.7	5974.5
5°	6095.2	6135.5	6072.2	6060.7	6014.7	6032.0	6032.0	5974.5	6026.2	6020.5	6009.0
7.5°	6256.2	6187.2	6118.2	6049.2	6037.7	6020.5	5957.2	5934.2	5974.5	5928.5	5997.5
10°	6325.2	6336.7	6233.2	6141.2	6055.0	5934.2	5848.0	5796.2	5733.0	5802.0	5842.2
12.5°	6641.5	6526.5	6348.2	6204.5	5911.2	5790.5	5704.2	5681.2	5790.5	5813.5	5773.2
15°	6750.8	6733.5	6503.5	6181.5	5876.7	5733.0	5750.2	5704.2	5715.7	5658.2	5669.7
17.5°	6975.0	6779.5	6509.3	6106.7	5871.0	5836.5	5733.0	5549.0	5445.5	5399.5	5439.7
20°	7222.3	7032.5	6641.5	6135.5	5922.7	5830.7	5491.5	5267.2	5054.4	4939.4	4945.2
22.5°	7440.8	7205.0	6584.0	6147.0	5968.7	5589.2	5181.0	4738.2	4473.7	4295.4	4301.2
25°	7705.3	7371.8	6607.0	6170.0	5848.0	5204.0	4617.4	4186.2	3869.9	3749.1	3789.4
27.5°	7854.8	7475.3	6733.5	6221.7	5531.7	4657.7	4025.2	3622.6	3438.6	3381.1	3375.4
30°	8303.3	7705.3	6888.8	6118.2	5002.7	4071.2	3484.6	3237.4	3059.1	3007.4	3018.9
32.5°	8970.3	8125.1	7090.0	5848.0	4462.2	3547.9	3133.9	2949.9	2783.1	2685.4	2673.9
35°	9528.1	8843.8	7302.8	5428.2	3835.4	3145.4	2886.6	2656.6	2403.6	2294.3	2265.6
37.5°	10591.9	9654.6	7256.8	4795.7	3237.4	2846.4	2622.1	2340.3	2121.8	1972.3	1955.1
40°	12006.5	10603.4	7032.5	4025.2	2794.6	2581.9	2340.3	2070.1	1799.8	1673.3	1661.8
42.5°	13725.8	11765.0	6624.3	3243.1	2351.8	2317.3	2098.8	1788.3	1546.8	1454.8	1460.6
45°	15123.1	12759.7	6210.2	2604.9	2024.1	2058.6	1868.8	1575.6	1408.8	1334.1	1334.1
47.5°	16365.1	13432.5	5761.7	2150.6	1719.3	1799.8	1633.1	1460.6	1316.8	1259.3	1247.8
50°	17561.2	14116.8	5313.2	1742.3	1466.3	1546.8	1529.6	1391.6	1276.5	1207.5	1213.3
52.5°	18308.7	14226.1	4743.9	1426.1	1282.3	1374.3	1431.8	1305.3	1178.8	1138.5	1127.0
55°	17394.4	12817.2	3680.1	1173.0	1086.8	1207.5	1316.8	1173.0	1075.3	1006.3	1000.5
56°	16163.9	11460.2	3076.4	1081.0	1029.3	1161.5	1276.5	1121.3	1012.0	971.8	943.0
57.5°	13685.5	9378.6	2271.3	960.3	954.5	1081.0	1213.3	1069.5	943.0	908.5	908.5
60°	8533.3	5278.7	1374.3	805.0	828.0	960.3	1092.5	954.5	839.5	839.5	856.8
62.5°	3887.2	2196.6	833.8	684.3	713.0	828.0	971.8	862.5	799.3	862.5	874.0
65°	1322.6	948.8	603.8	546.3	563.5	684.3	833.8	874.0	868.3	908.5	931.5
67.5°	741.8	609.5	506.0	454.3	442.8	506.0	684.3	874.0	839.5	822.3	833.8
70°	626.8	517.5	448.5	402.5	385.3	408.3	529.0	661.3	592.3	575.0	563.5
72.5°	506.0	431.3	391.0	362.3	310.5	264.5	241.5	253.0	281.8	299.0	327.8
75°	356.5	327.8	327.8	293.3	224.3	166.8	132.3	109.3	74.8	51.8	57.5
77.5°	201.3	201.3	207.0	178.3	143.8	109.3	80.5	57.5	28.8	11.5	5.8
80°	138.0	149.5	161.0	143.8	120.8	97.8	69.0	40.3	17.3	0.0	0.0
82.5°	138.0	155.3	166.8	143.8	120.8	92.0	69.0	40.3	17.3	5.8	0.0
85°	28.8	34.5	40.3	46.0	69.0	69.0	51.8	34.5	17.3	5.8	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	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)