

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: P528682

Luminaire Tested: **GALN-SA3D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18044 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

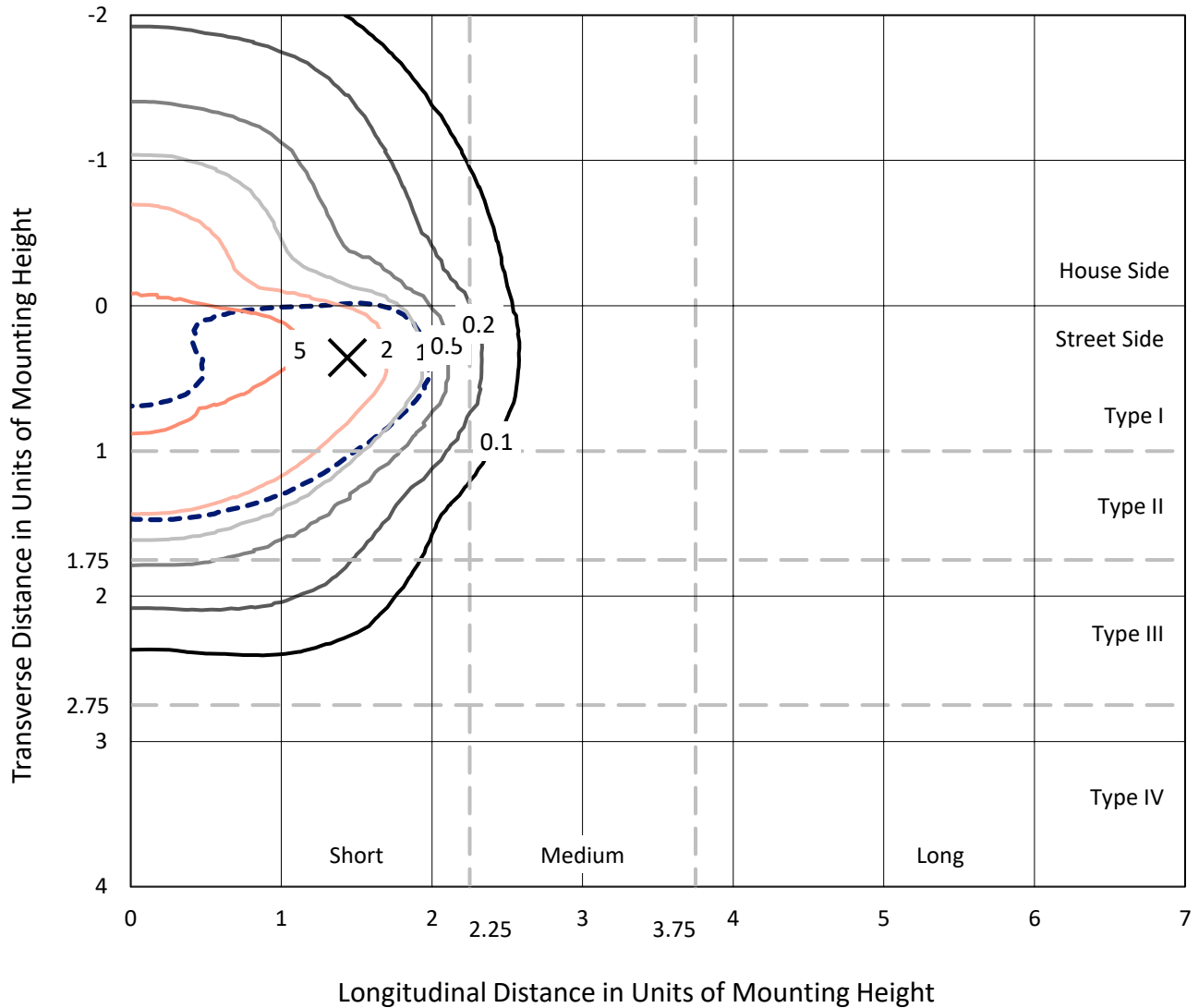
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

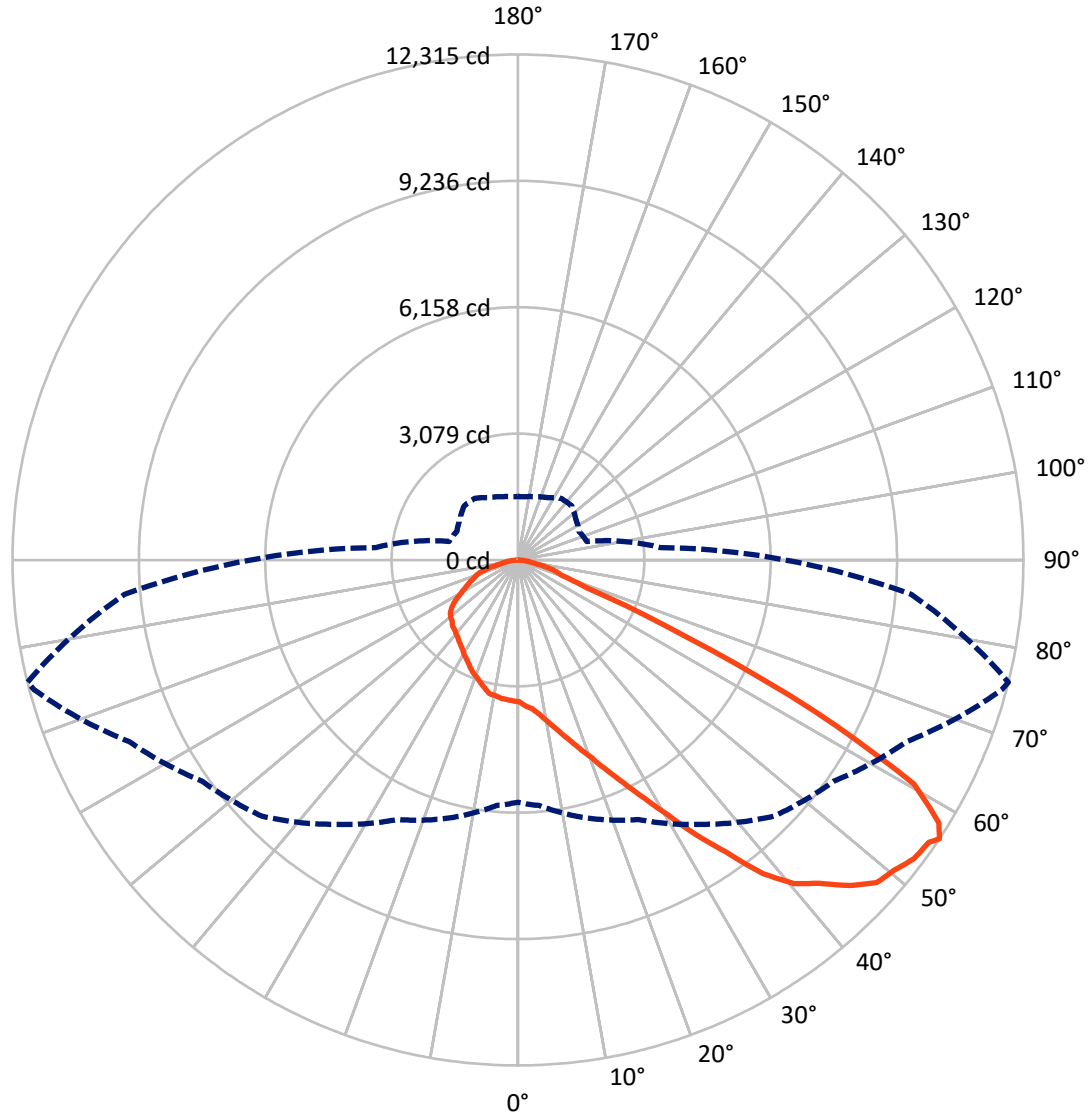
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4851.5	0.0	4851.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	13192.5	0.0	13192.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	18044.0	0.0	18044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.4	1.9
10°-20°	1075.5	6.0
20°-30°	1881.0	10.4
30°-40°	2945.0	16.3
40°-50°	4284.2	23.7
50°-60°	4708.6	26.1
60°-70°	2101.7	11.6
70°-80°	607.1	3.4
80°-90°	98.5	0.5
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°	18044.0	100.0
0°-180°	18044.0	100.0

**Coefficient of Utilization**



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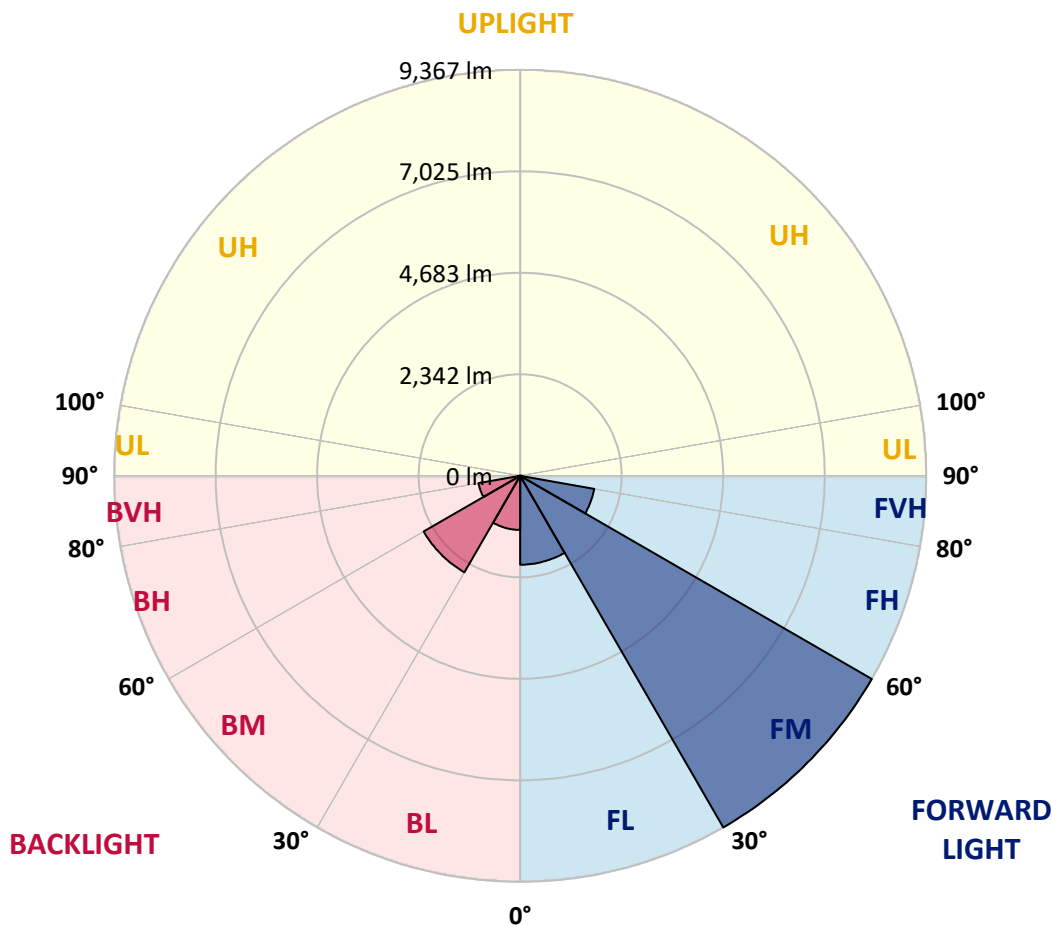
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.5	11.4			
FM (30°-60°)	9367.0	51.9			
FH (60°-80°)	1732.7	9.6			G1/1800
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1248.4	6.9	B3/2500		
BM (30°-60°)	2570.9	14.2	B3/5000		
BH (60°-80°)	976.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	56.1	0.3			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°	55°	65°	75°	76°	85°
0°	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5
2.5°	3803.4	3742.5	3737.9	3721.5	3730.8	3688.7	3644.3	3585.8	3525.0	3562.4	3473.5
5°	4070.0	3988.1	4020.9	3964.7	3971.8	3915.6	3824.4	3756.6	3681.7	3637.3	3574.1
7.5°	4163.6	4170.6	4194.0	4184.6	4137.8	4137.8	4077.0	3957.7	3826.7	3801.0	3695.8
10°	4289.9	4292.2	4266.5	4273.5	4339.0	4308.6	4254.8	4203.3	4034.9	4004.5	3817.4
12.5°	4334.3	4292.2	4334.3	4371.7	4448.9	4491.0	4479.3	4441.9	4261.8	4240.8	3967.1
15°	4341.3	4315.6	4350.7	4434.9	4502.7	4680.5	4769.4	4743.7	4505.1	4507.4	4135.5
17.5°	4308.6	4343.7	4357.7	4430.2	4586.9	4753.0	5010.3	5045.4	4848.9	4818.5	4348.4
20°	4353.0	4327.3	4346.0	4411.5	4619.7	4879.3	5216.2	5447.7	5171.7	5150.7	4568.2
22.5°	4523.8	4488.7	4484.0	4526.1	4675.8	4944.8	5433.7	5850.0	5564.7	5576.4	4841.9
25°	4657.1	4675.8	4659.5	4657.1	4750.7	5043.1	5721.4	6329.6	6098.0	6030.2	5164.7
27.5°	4886.3	4930.8	4898.0	4942.5	4921.4	5190.4	5927.2	6860.5	6673.4	6582.2	5457.1
30°	5204.5	5227.9	5197.4	5197.4	5134.3	5396.3	6114.4	7414.9	7337.7	7213.7	5800.9
32.5°	5623.2	5658.2	5597.4	5562.3	5553.0	5702.7	6451.2	7962.2	8093.2	7988.0	6257.0
35°	6177.5	6156.5	6084.0	6051.2	5924.9	6172.8	6951.8	8591.5	8935.3	8748.2	6809.1
37.5°	6666.4	6633.6	6629.0	6446.5	6476.9	6680.4	7377.5	9068.6	9751.6	9697.8	7391.5
40°	7122.5	7152.9	7202.0	7099.1	7052.3	7276.9	7873.4	9433.5	10385.5	10364.5	7840.6
42.5°	7611.4	7583.3	7669.9	7583.3	7513.1	7831.3	8411.3	9686.1	10942.2	10769.1	8310.8
45°	8320.1	8231.2	8261.6	8268.7	8217.2	8334.2	8633.6	9868.6	11332.9	11314.1	8654.6
47.5°	8911.9	8914.2	8862.8	8823.0	8666.3	8783.3	8881.5	9983.2	11782.0	11751.6	8787.9
50°	9131.8	9101.4	9251.1	9337.6	9347.0	9108.4	9075.6	10046.4	12018.2	11884.9	8921.3
52.5°	8341.2	8369.2	8605.5	9120.1	9417.2	9442.9	9302.5	10177.4	12114.1	12086.0	9028.9
55°	6713.2	6848.8	7237.1	7831.3	8535.3	9309.6	9548.1	10313.0	12165.6	12142.2	9506.0
56°	5901.5	6006.8	6512.0	6977.5	7861.7	8825.4	9393.8	10458.0	12205.3	12315.3	9618.3
57.5°	4750.7	4872.3	5234.9	5763.5	6806.7	7903.8	8968.0	10280.3	12051.0	12093.1	9700.2
60°	2970.6	2982.3	3417.4	3765.9	4500.4	5571.7	6844.2	8944.7	11152.8	11091.9	8713.1
62.5°	1948.5	1950.8	2346.1	2631.5	2966.0	3211.6	4027.9	5931.9	8228.9	8121.3	6203.3
65°	1368.4	1398.8	1705.2	2086.5	2222.1	2093.5	2067.8	3127.4	4596.3	4441.9	3333.2
67.5°	1001.1	1003.5	1274.8	1684.1	1880.6	1592.9	1293.5	1527.4	1819.8	1815.1	1543.8
70°	662.0	690.0	898.2	1258.4	1483.0	1279.5	1057.3	1092.4	1157.8	1157.8	1148.5
72.5°	385.9	411.7	549.7	797.6	832.7	800.0	837.4	935.6	977.7	975.4	963.7
75°	219.9	231.6	262.0	332.1	414.0	488.9	615.2	708.7	750.8	776.6	746.2
77.5°	128.6	135.7	154.4	189.5	215.2	264.3	334.5	400.0	456.1	449.1	453.8
80°	67.8	67.8	86.5	112.3	149.7	187.1	222.2	259.6	290.0	297.1	304.1
82.5°	39.8	42.1	56.1	81.9	107.6	133.3	170.8	196.5	224.6	226.9	231.6
85°	21.1	23.4	35.1	53.8	72.5	81.9	84.2	79.5	86.5	81.9	93.6
87.5°	7.0	7.0	11.7	9.4	9.4	11.7	14.0	14.0	18.7	18.7	18.7
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°	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5	3452.5
2.5°	3471.2	3471.2	3431.4	3356.6	3344.9	3314.5	3286.4	3284.1	3263.0	3244.3	3235.0
5°	3536.7	3464.2	3405.7	3337.9	3258.3	3220.9	3178.8	3132.0	3113.3	3132.0	3129.7
7.5°	3611.5	3550.7	3375.3	3249.0	3157.8	3120.3	3073.6	3024.4	3029.1	3029.1	2996.4
10°	3684.1	3602.2	3321.5	3160.1	3026.8	2998.7	2973.0	2991.7	3015.1	3019.8	2998.7
12.5°	3805.7	3620.9	3295.8	3071.2	2987.0	2926.2	2942.6	2994.0	3043.1	3029.1	3045.5
15°	3896.9	3637.3	3178.8	2980.0	2874.7	2902.8	2961.3	2996.4	3078.2	3068.9	3085.3
17.5°	3985.8	3646.6	3064.2	2858.4	2813.9	2891.1	2935.6	3036.1	3061.9	3118.0	3139.1
20°	4168.2	3665.3	2947.2	2783.5	2769.5	2858.4	2935.6	2982.3	3038.5	3087.6	3087.6
22.5°	4261.8	3656.0	2870.1	2685.3	2729.7	2785.8	2856.0	2935.6	2935.6	2982.3	2984.7
25°	4378.8	3618.6	2748.4	2638.5	2671.2	2725.0	2804.6	2776.5	2806.9	2806.9	2844.3
27.5°	4512.1	3539.0	2643.2	2554.3	2619.8	2678.3	2689.9	2671.2	2636.1	2631.5	2617.4
30°	4619.7	3440.8	2566.0	2526.2	2580.0	2612.8	2575.3	2535.6	2474.8	2470.1	2437.3
32.5°	4767.1	3319.2	2470.1	2456.0	2516.9	2519.2	2507.5	2446.7	2357.8	2320.4	2282.9
35°	5015.0	3249.0	2397.6	2418.6	2437.3	2430.3	2409.3	2343.8	2254.9	2238.5	2224.5
37.5°	5197.4	3197.5	2322.7	2348.4	2364.8	2374.2	2311.0	2238.5	2240.8	2208.1	2198.7
40°	5403.3	3164.8	2261.9	2273.6	2275.9	2306.3	2229.1	2194.1	2210.4	2189.4	2203.4
42.5°	5667.6	3174.1	2198.7	2189.4	2233.8	2222.1	2184.7	2137.9	2147.3	2084.1	2093.5
45°	5807.9	3237.3	2161.3	2119.2	2168.3	2166.0	2116.9	2072.4	2016.3	1894.7	1899.3
47.5°	5901.5	3253.7	2072.4	2044.4	2095.8	2126.2	2070.1	1967.2	1887.6	1801.1	1780.0
50°	5997.4	3284.1	2030.3	1971.8	1992.9	2065.4	1995.2	1897.0	1819.8	1742.6	1754.3
52.5°	6081.6	3342.6	1948.5	1861.9	1899.3	1978.9	1941.4	1822.1	1737.9	1674.8	1656.1
55°	6455.9	3473.5	1810.5	1698.2	1787.1	1887.6	1866.6	1721.6	1630.3	1597.6	1592.9
56°	6514.3	3478.2	1737.9	1642.0	1723.9	1857.2	1831.5	1677.1	1595.3	1543.8	1546.1
57.5°	6523.7	3422.1	1635.0	1590.6	1660.7	1812.8	1780.0	1642.0	1529.8	1483.0	1468.9
60°	5740.1	2671.2	1506.4	1478.3	1560.2	1677.1	1665.4	1546.1	1419.8	1366.0	1391.8
62.5°	3913.3	1957.8	1405.8	1401.1	1443.2	1557.8	1527.4	1419.8	1314.6	1279.5	1263.1
65°	2278.3	1485.3	1307.5	1288.8	1323.9	1384.7	1405.8	1293.5	1183.6	1160.2	1153.2
67.5°	1345.0	1228.0	1181.2	1150.8	1139.1	1176.6	1192.9	1127.4	1017.5	984.8	1012.8
70°	1125.1	1092.4	1094.7	1043.2	1015.2	989.4	975.4	916.9	825.7	783.6	771.9
72.5°	970.7	956.7	947.3	900.5	874.8	816.3	755.5	697.0	629.2	594.1	596.5
75°	741.5	736.8	741.5	718.1	673.7	626.9	570.7	495.9	444.4	400.0	409.3
77.5°	442.1	456.1	463.1	453.8	435.1	393.0	357.9	308.8	259.6	224.6	219.9
80°	304.1	315.8	327.5	315.8	297.1	266.7	229.2	191.8	156.7	138.0	133.3
82.5°	231.6	243.3	250.3	238.6	215.2	182.4	156.7	131.0	102.9	84.2	79.5
85°	84.2	95.9	93.6	112.3	121.6	117.0	100.6	77.2	58.5	42.1	39.8
87.5°	23.4	21.1	23.4	23.4	23.4	21.1	18.7	18.7	18.7	11.7	9.4
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)