

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: P531196

Luminaire Tested: **GALN-SA6C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29551 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

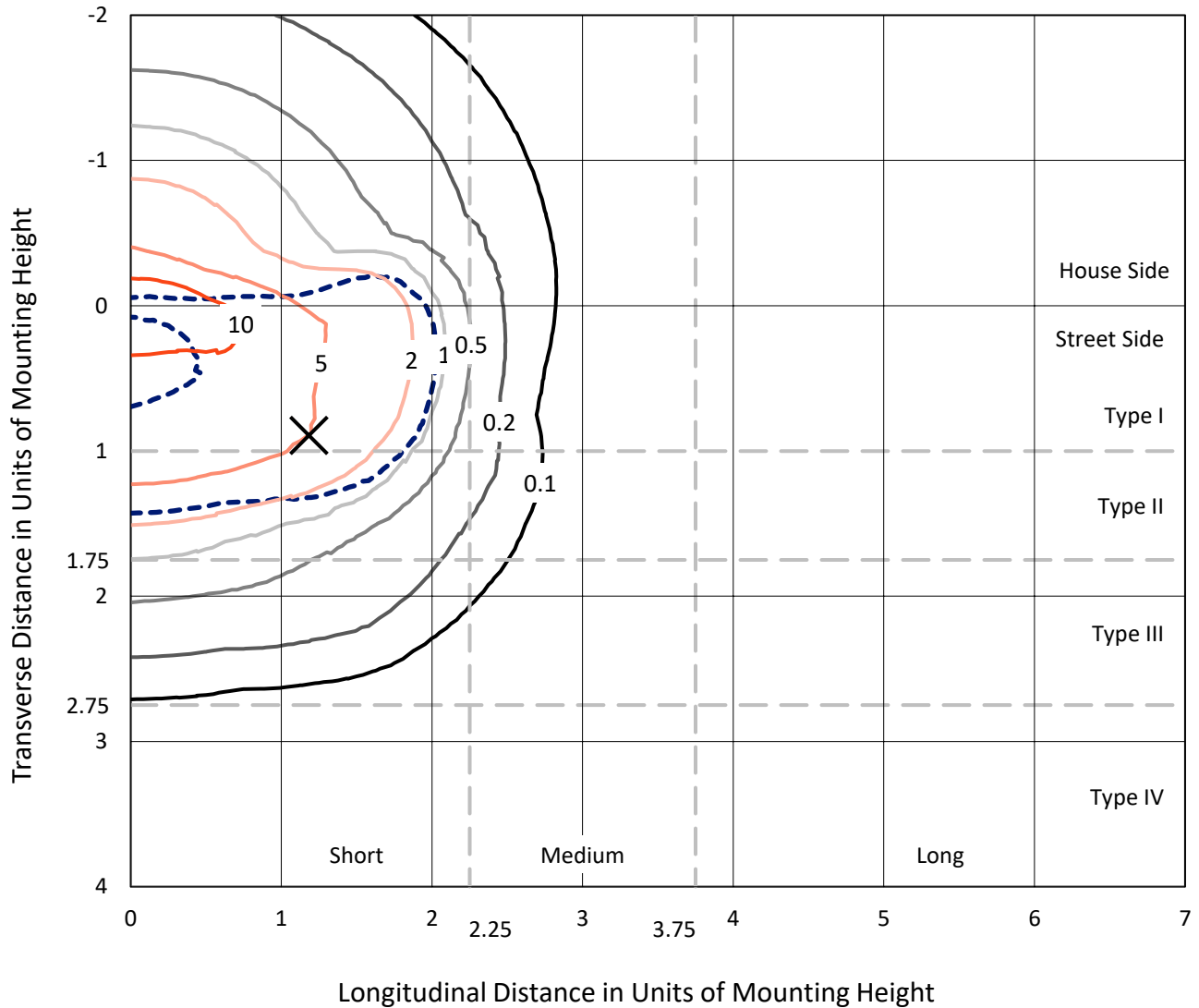
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

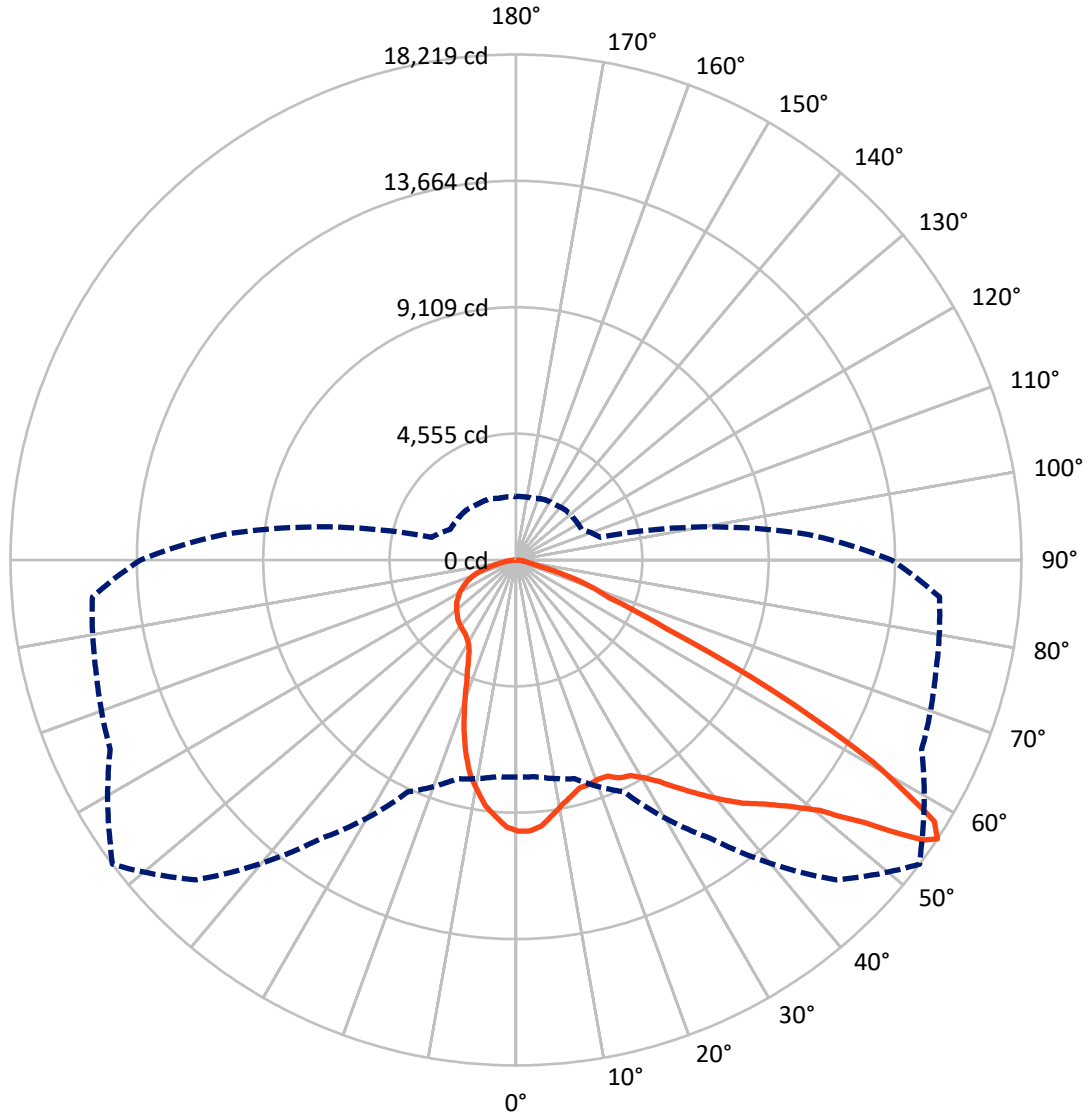
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8623.6	0.0	8623.6
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	20927.4	0.0	20927.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	29551.0	0.0	29551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	865.5	2.9
10°-20°	2161.7	7.3
20°-30°	3187.6	10.8
30°-40°	4554.4	15.4
40°-50°	6268.5	21.2
50°-60°	7407.7	25.1
60°-70°	3947.8	13.4
70°-80°	1001.5	3.4
80°-90°	156.2	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°	29551.0	100.0
0°-180°	29551.0	100.0

**Coefficient of Utilization**



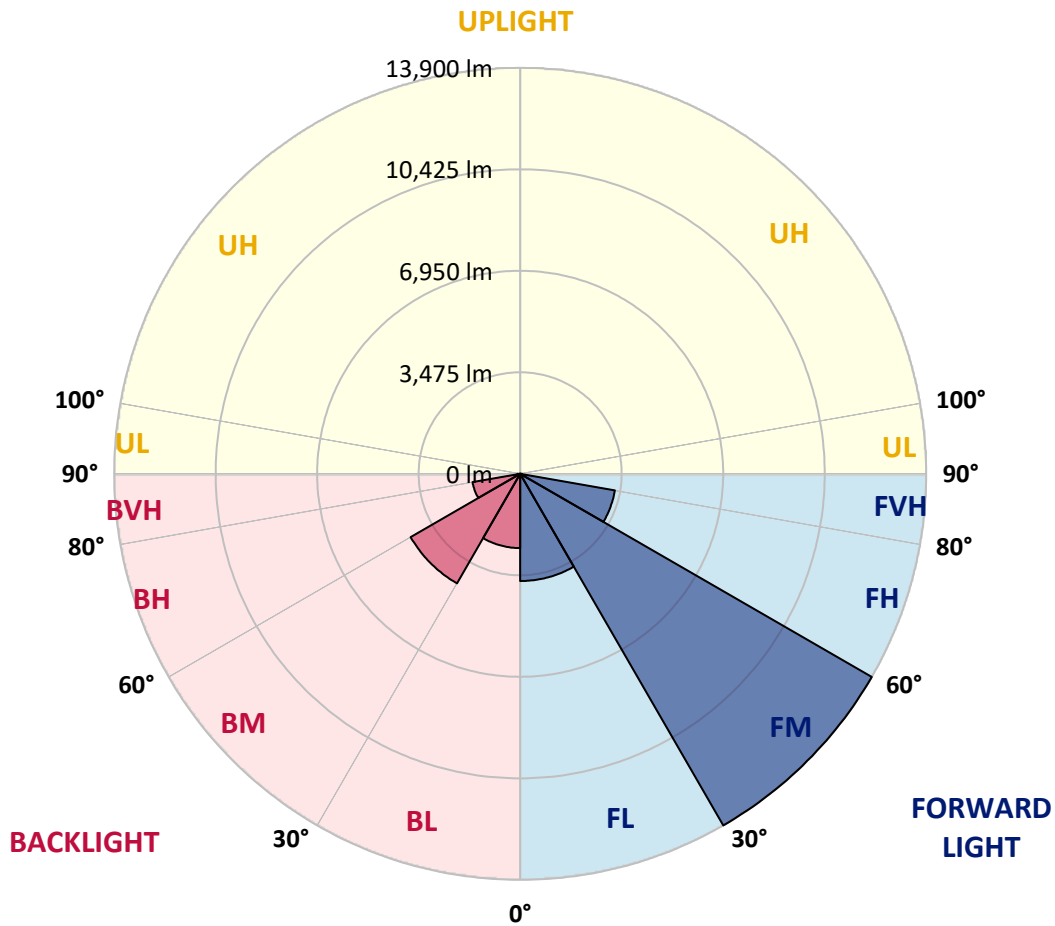
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.3	12.4			
FM (30°-60°)	13900.2	47.0			
FH (60°-80°)	3293.1	11.1			G2/5000
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	2543.5	8.6	B4/5000		
BM (30°-60°)	4330.5	14.7	B3/5000		
BH (60°-80°)	1656.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6
2.5°	9655.3	9571.9	9621.2	9602.3	9757.7	9803.2	9780.4	9799.4	9886.6	9844.9	9757.7
5°	9022.3	9139.8	9162.5	9219.4	9310.4	9488.5	9628.8	9666.7	9708.4	9901.7	9882.8
7.5°	8446.0	8525.7	8484.0	8650.7	8847.9	9136.0	9306.6	9336.9	9719.8	9825.9	9905.5
10°	8082.1	8002.5	8192.1	8237.5	8461.2	8791.0	8995.7	9120.8	9469.6	9890.4	9939.6
12.5°	7744.7	7718.2	7831.9	7960.8	8211.0	8552.2	8760.7	8810.0	9348.3	9791.8	10023.0
15°	7494.5	7464.2	7577.9	7672.7	7964.6	8267.9	8533.2	8673.5	9215.6	9734.9	9951.0
17.5°	7297.4	7293.6	7358.1	7528.7	7828.1	8082.1	8510.5	8518.1	9147.4	9822.1	10011.7
20°	7286.0	7282.2	7293.6	7483.2	7756.1	8067.0	8438.5	8506.7	9147.4	9761.5	10015.5
22.5°	7380.8	7320.2	7388.4	7509.7	7706.8	8093.5	8465.0	8616.6	9367.2	10061.0	10186.0
25°	7532.4	7547.6	7585.5	7627.2	7740.9	8154.1	8700.0	8825.1	9625.0	10318.7	10421.1
27.5°	7809.2	7801.6	7816.8	7839.5	7938.1	8211.0	8794.8	9117.0	10163.3	10777.4	10675.1
30°	8214.8	8188.3	8248.9	8328.5	8237.5	8393.0	9109.4	9352.1	10663.7	11239.9	10959.4
32.5°	8582.5	8681.1	8794.8	8828.9	8719.0	8749.3	9526.4	9772.8	11080.7	11808.5	11308.1
35°	9041.2	9120.8	9272.5	9378.6	9359.6	9268.7	10095.1	10421.1	11683.4	12225.5	11675.9
37.5°	9488.5	9583.3	9833.5	10148.1	9973.8	9932.1	10701.6	10970.8	11869.2	12449.2	11945.0
40°	10208.8	10205.0	10637.2	10800.2	10955.6	10883.6	11330.9	11421.9	11967.8	12399.9	11952.6
42.5°	11054.2	11001.1	11440.8	11694.8	11895.7	11903.3	11986.7	11956.4	12013.2	12149.7	11873.0
45°	11857.8	11971.5	12415.1	12870.0	13070.9	13093.6	12540.2	12483.3	12092.9	12077.7	11721.3
47.5°	12839.7	12866.2	13230.1	13829.1	14295.3	14136.1	13256.6	13131.5	12441.6	12559.1	11975.3
50°	12896.5	13093.6	13419.7	14124.8	15557.7	15516.0	14185.4	13950.4	13002.7	13241.5	12684.2
52.5°	11706.2	11660.7	12047.4	13199.8	15462.9	16888.3	15724.5	15163.5	14208.2	14026.2	13832.9
55°	8919.9	9026.0	9367.2	10531.0	13427.2	16907.2	17820.8	17362.2	15497.0	15186.2	14962.5
56°	7824.3	7839.5	8161.7	9223.2	12252.1	16304.5	18218.9	17847.4	16137.7	15663.8	15322.7
57.5°	6486.2	6399.0	6565.8	7145.8	10341.5	15030.8	17782.9	18146.9	16888.3	16179.4	15705.5
60°	5106.3	5087.3	5019.1	5125.2	6535.4	11323.3	14803.3	15622.1	16812.5	15694.2	15042.1
62.5°	4169.9	4075.2	4211.6	4363.3	4541.5	7024.5	10402.1	10883.6	13347.6	12528.8	11300.6
65°	3233.6	3188.1	3358.7	3851.5	3957.7	4461.8	5925.1	6296.6	7881.2	7740.9	6816.0
67.5°	2225.2	2232.8	2380.7	3131.3	3669.6	3624.1	3627.9	3821.2	4113.1	3055.4	2661.2
70°	1410.2	1406.4	1486.0	2016.7	2953.1	2983.4	2831.8	2774.9	2630.9	1592.2	1686.9
72.5°	906.0	879.5	921.2	1114.5	1527.7	1766.5	1819.6	1853.7	1523.9	1251.0	1357.1
75°	511.8	485.2	470.1	519.3	602.7	697.5	765.8	788.5	883.3	947.7	1004.6
77.5°	155.4	140.3	170.6	227.5	299.5	401.8	489.0	504.2	595.2	671.0	727.8
80°	68.2	75.8	106.1	151.6	212.3	284.3	345.0	367.7	428.4	485.2	500.4
82.5°	41.7	45.5	72.0	102.4	147.8	200.9	246.4	254.0	314.6	360.1	371.5
85°	15.2	19.0	37.9	60.7	94.8	128.9	128.9	140.3	128.9	128.9	140.3
87.5°	0.0	0.0	3.8	7.6	7.6	11.4	15.2	15.2	19.0	22.7	26.5
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°	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6	9776.6
2.5°	9803.2	9784.2	9753.9	9644.0	9632.6	9598.5	9408.9	9378.6	9408.9	9317.9	9325.5
5°	9784.2	9841.1	9613.6	9503.7	9299.0	9151.1	8980.6	8893.4	8737.9	8639.4	8749.3
7.5°	9867.6	9844.9	9560.6	9321.7	9014.7	8639.4	8339.9	8169.3	7896.4	7820.6	7877.4
10°	9837.3	9716.0	9382.4	9067.7	8487.7	8157.9	7672.7	7202.6	6944.9	6812.2	6793.2
12.5°	9795.6	9761.5	9204.2	8662.1	8051.8	7358.1	6675.7	6232.2	5811.4	5629.4	5656.0
15°	9844.9	9556.8	8870.6	8184.5	7373.2	6463.4	5728.0	5155.6	4863.7	4746.2	4746.2
17.5°	9822.1	9458.2	8711.4	7650.0	6622.6	5546.0	4738.6	4393.6	4272.3	4272.3	4306.4
20°	9833.5	9522.6	8389.2	7115.4	5735.6	4670.3	4082.8	3957.7	4010.7	4029.7	4048.6
22.5°	9897.9	9310.4	8074.5	6527.9	4913.0	3995.6	3707.5	3711.3	3806.0	3908.4	3889.4
25°	9977.6	9227.0	7691.7	5944.1	4283.7	3665.8	3574.8	3563.4	3635.4	3688.5	3696.1
27.5°	9909.3	9082.9	7301.2	5216.2	3768.1	3445.9	3426.9	3434.5	3457.3	3563.4	3529.3
30°	10133.0	9124.6	6812.2	4605.9	3483.8	3373.9	3351.1	3339.8	3373.9	3404.2	3377.7
32.5°	10409.7	8976.8	6448.3	4018.3	3343.5	3320.8	3275.3	3260.1	3279.1	3248.8	3263.9
35°	10531.0	8950.2	5974.4	3597.5	3233.6	3214.7	3188.1	3184.3	3188.1	3161.6	3138.8
37.5°	10599.3	9075.3	5432.3	3404.2	3165.4	3184.3	3123.7	3116.1	3047.9	3063.0	3074.4
40°	10716.8	8882.0	4992.6	3218.4	3123.7	3085.8	3032.7	3021.3	2975.8	2949.3	2975.8
42.5°	10546.2	8825.1	4560.4	3138.8	3063.0	3021.3	2983.4	2919.0	2903.8	2881.1	2865.9
45°	10409.7	8499.1	4173.7	3040.3	2991.0	2968.2	2896.2	2828.0	2771.1	2793.9	2759.7
47.5°	10512.1	8385.4	3790.9	2956.9	2892.4	2865.9	2793.9	2740.8	2683.9	2657.4	2649.8
50°	10921.5	8597.7	3468.6	2896.2	2809.0	2793.9	2699.1	2638.4	2585.4	2566.4	2574.0
52.5°	11899.5	9177.7	3248.8	2771.1	2729.4	2661.2	2608.1	2532.3	2498.2	2437.5	2475.4
55°	13139.1	10121.6	3191.9	2653.6	2630.9	2570.2	2498.2	2441.3	2376.9	2327.6	2316.2
56°	13537.2	10572.7	3146.4	2608.1	2570.2	2536.1	2441.3	2407.2	2304.8	2293.5	2285.9
57.5°	13859.4	10970.8	3154.0	2520.9	2483.0	2452.7	2395.8	2312.4	2244.2	2202.5	2221.4
60°	13131.5	10269.4	3009.9	2388.2	2380.7	2323.8	2244.2	2206.3	2122.9	2073.6	2062.2
62.5°	9761.5	6971.4	2441.3	2217.7	2213.9	2153.2	2062.2	2020.5	2005.4	1937.1	1937.1
65°	5621.8	4370.9	2111.5	2077.4	2047.1	1986.4	1895.4	1861.3	1823.4	1800.7	1781.7
67.5°	2399.6	2266.9	1918.2	1914.4	1880.3	1804.5	1713.5	1660.4	1611.1	1565.6	1588.4
70°	1740.0	1766.5	1732.4	1713.5	1671.8	1577.0	1497.4	1432.9	1357.1	1326.8	1349.5
72.5°	1379.9	1436.7	1486.0	1489.8	1440.5	1330.6	1243.4	1156.2	1072.8	1031.1	1050.1
75°	1046.3	1084.2	1133.5	1144.8	1072.8	997.0	913.6	822.6	758.2	708.9	716.5
77.5°	754.4	746.8	792.3	784.7	750.6	697.5	621.7	538.3	466.3	420.8	424.6
80°	515.6	526.9	553.5	549.7	508.0	473.9	417.0	348.8	295.7	257.8	250.2
82.5°	360.1	379.1	401.8	382.9	348.8	314.6	272.9	223.7	182.0	151.6	144.1
85°	128.9	147.8	170.6	182.0	193.3	185.8	155.4	125.1	91.0	75.8	72.0
87.5°	26.5	30.3	34.1	34.1	34.1	30.3	26.5	26.5	22.7	11.4	11.4
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)