

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: P531128

Luminaire Tested: **GALN-SA6B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21797 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

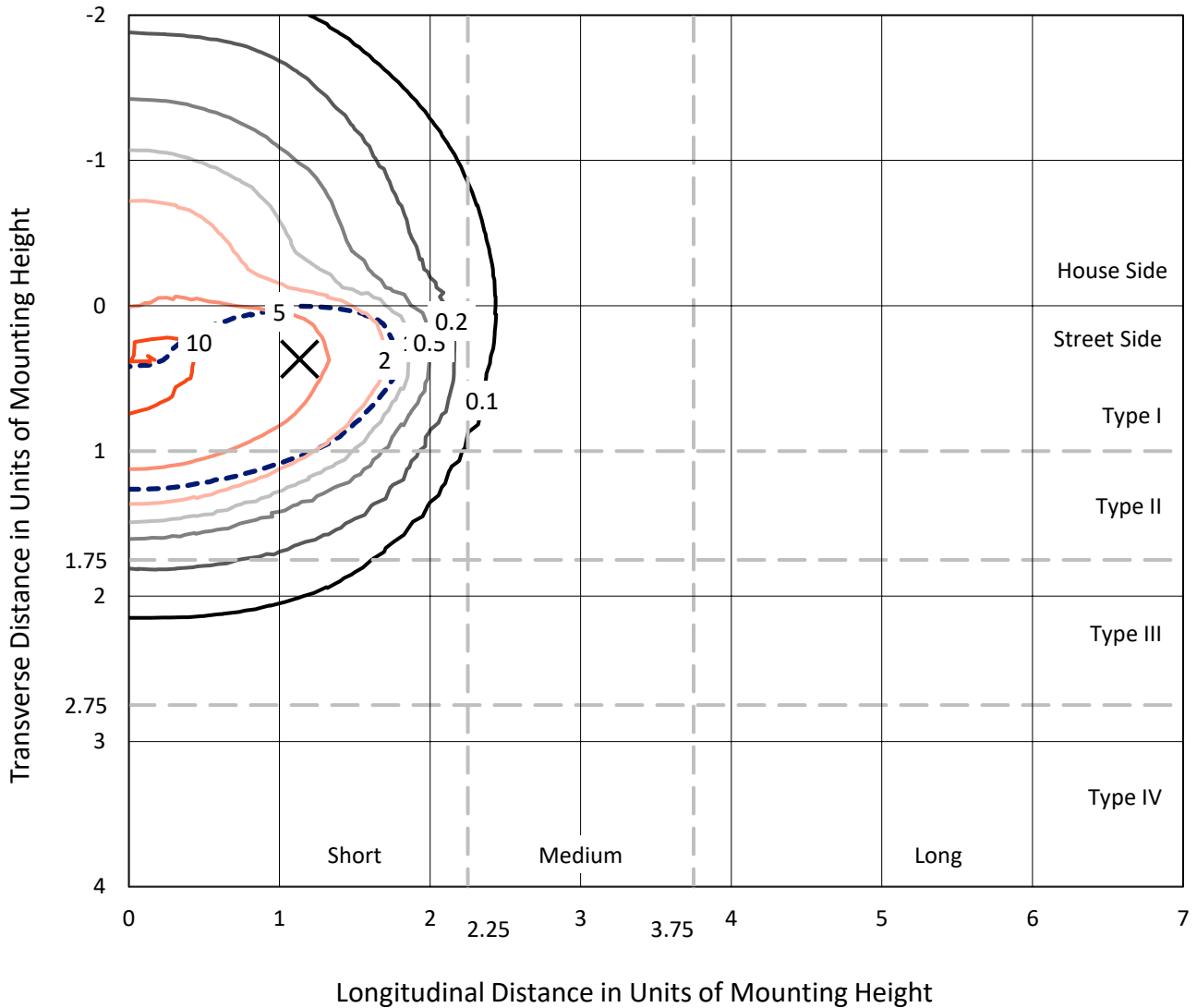
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

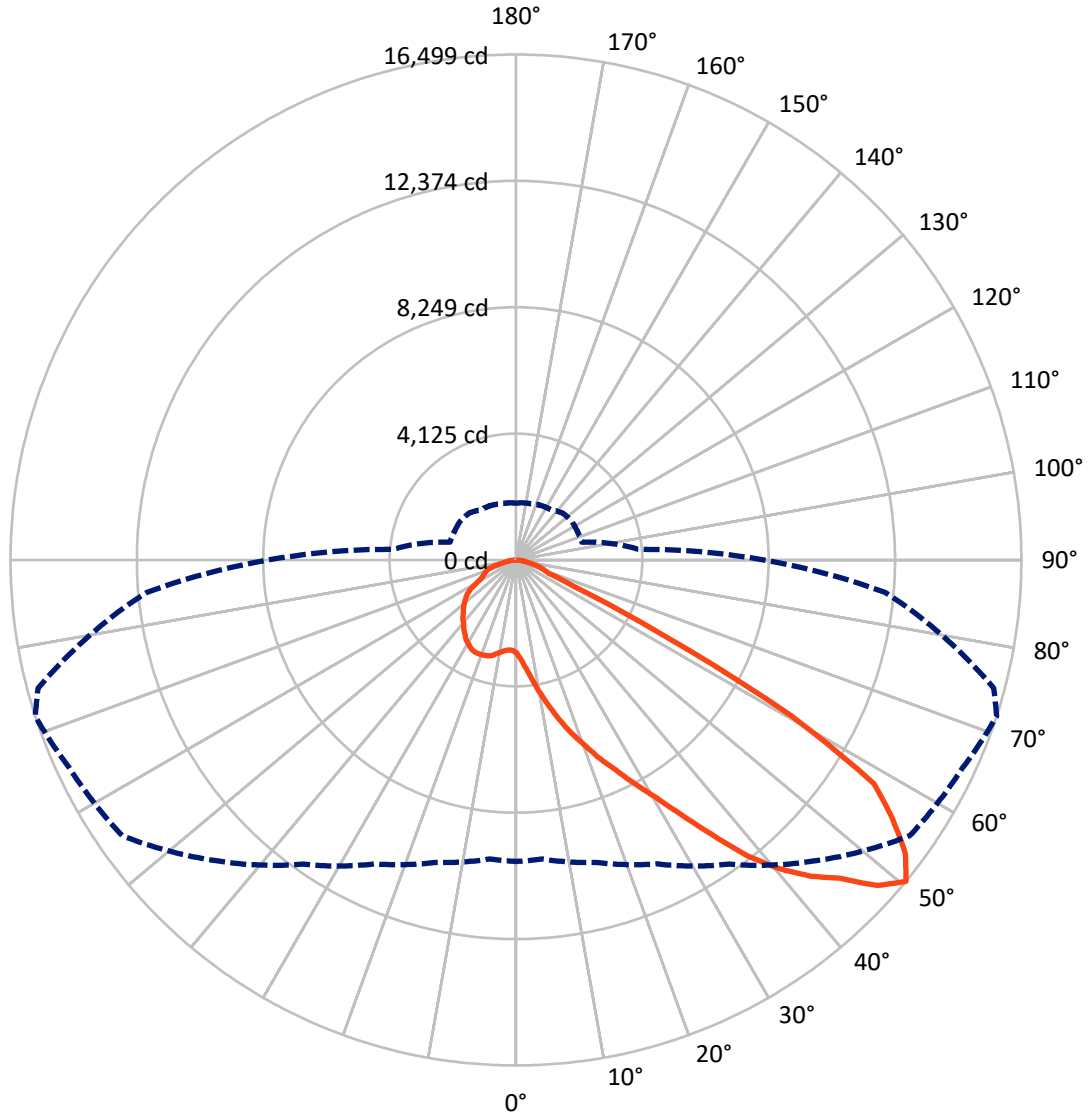
✕ Max cd  
 - - - 1/2 Max cd



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 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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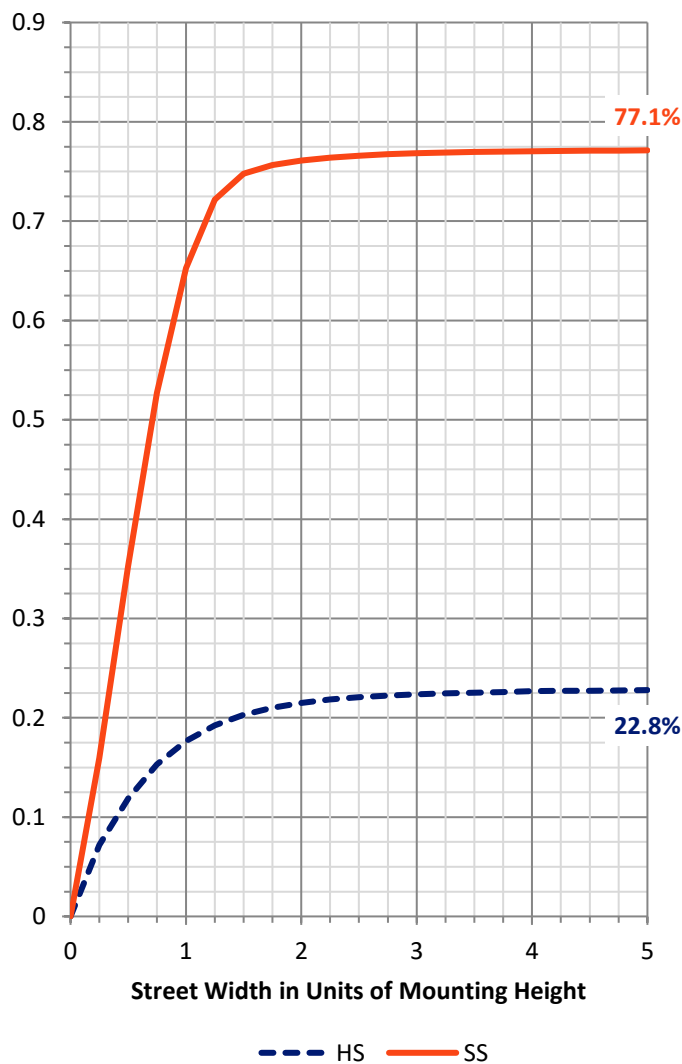
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4993.8	0.0	4993.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	16803.2	0.0	16803.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	21797.0	0.0	21797.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.9	1.6
10°-20°	1334.3	6.1
20°-30°	2587.0	11.9
30°-40°	4285.8	19.7
40°-50°	5996.8	27.5
50°-60°	5059.1	23.2
60°-70°	1542.0	7.1
70°-80°	541.0	2.5
80°-90°	94.1	0.4
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°	21797.0	100.0
0°-180°	21797.0	100.0

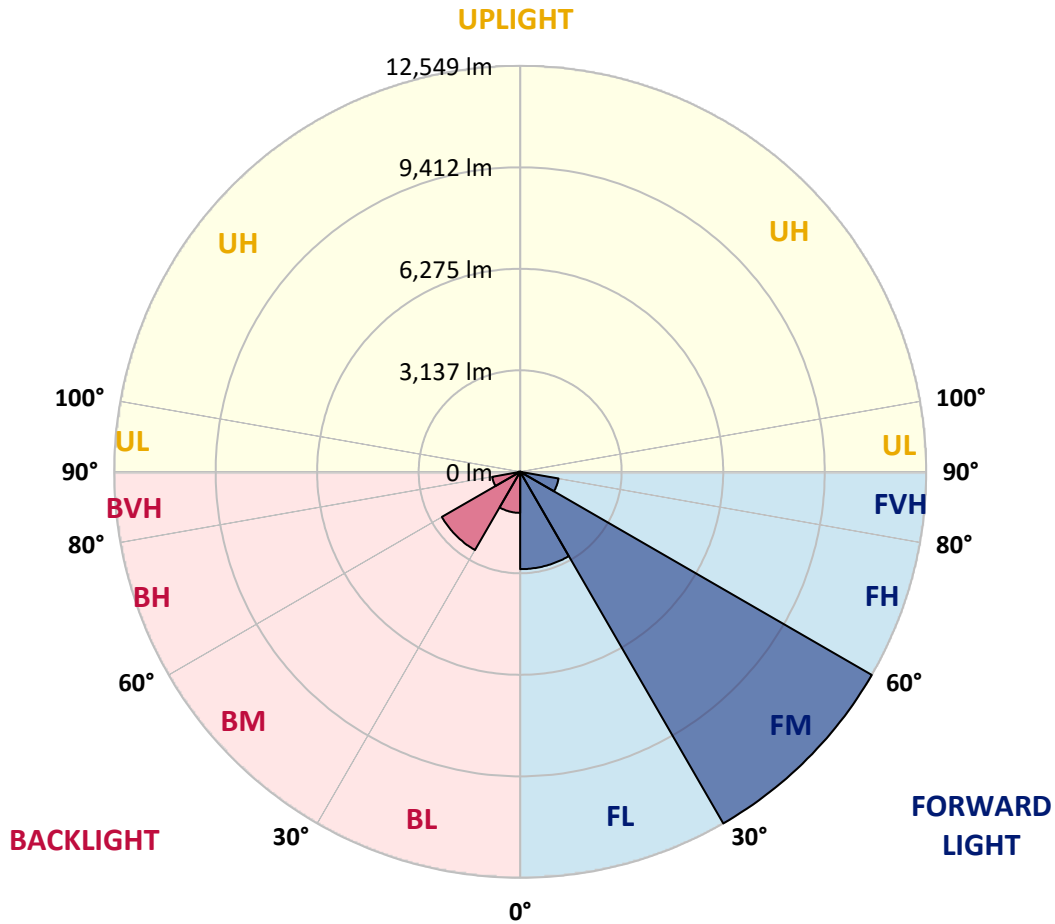


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.8	13.8			
FM (30°-60°)	12549.1	57.6			
FH (60°-80°)	1203.2	5.5			G1/1800
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	1269.5	5.8	B3/2500		
BM (30°-60°)	2792.6	12.8	B3/5000		
BH (60°-80°)	879.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	51.9	0.2			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°	72°	75°	85°
0°	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3
2.5°	3902.8	3878.5	3805.7	3781.4	3695.1	3538.7	3484.8	3325.6	3258.2	3196.2	3123.3
5°	4935.8	4822.6	4814.5	4676.9	4477.3	4361.3	4016.1	3784.1	3571.1	3463.2	3263.6
7.5°	5594.0	5596.6	5596.6	5483.4	5324.2	5030.2	4720.1	4302.0	3981.0	3821.9	3482.1
10°	6219.7	6165.8	6136.1	6125.3	6017.4	5731.5	5399.8	4881.9	4442.3	4256.2	3646.6
12.5°	6662.0	6616.2	6683.6	6648.6	6570.3	6384.2	6071.4	5480.7	4930.4	4679.6	3910.9
15°	6872.4	6904.8	6958.7	7055.8	7020.8	6950.6	6605.4	6095.6	5456.4	5173.2	4145.6
17.5°	7196.1	7107.1	7171.8	7293.2	7390.3	7357.9	7161.0	6540.7	5977.0	5629.0	4461.1
20°	7422.6	7371.4	7403.8	7544.0	7616.8	7800.2	7697.8	7123.3	6475.9	6109.1	4833.3
22.5°	8070.0	7994.4	7889.3	7910.8	7937.8	8067.3	8091.5	7762.5	7055.8	6667.4	5186.7
25°	8868.3	8798.2	8674.1	8547.4	8469.1	8444.9	8528.5	8264.2	7611.4	7209.6	5567.0
27.5°	9747.6	9628.9	9550.7	9289.1	9078.7	9046.3	9005.9	8862.9	8269.6	7835.3	5995.8
30°	10602.6	10508.2	10403.0	9985.0	9766.5	9731.4	9531.8	9572.3	8984.3	8501.5	6481.3
32.5°	11249.9	11258.0	11018.0	10702.4	10497.4	10311.3	10238.5	10354.5	9901.4	9513.0	7023.5
35°	11773.2	11797.5	11568.2	11282.3	11061.1	11190.6	11158.2	11212.2	10996.4	10521.7	7654.6
37.5°	12283.0	12161.6	11916.1	11778.6	11662.6	11875.7	12150.8	12196.7	12237.1	11678.8	8388.2
40°	12366.6	12377.4	12234.4	12331.5	12185.9	12506.8	13146.1	13086.7	13251.2	12763.1	9183.9
42.5°	12247.9	12272.2	12328.8	12466.4	12817.0	13202.7	14152.1	13909.4	14109.0	13674.7	9958.0
45°	12053.7	11953.9	12024.0	12547.3	13154.2	14011.9	15071.8	14883.0	14818.3	14454.2	10880.4
47.5°	11125.9	11228.4	11446.8	12091.5	13003.1	14152.1	15724.6	15681.4	15875.6	15619.4	11719.3
50°	9839.3	9798.9	10219.6	10945.2	12121.1	13877.0	15689.5	16080.6	16498.7	16142.6	12094.2
52.5°	7368.7	7584.5	7945.9	8846.8	10524.4	12377.4	14923.5	15576.2	15916.1	15840.5	11792.1
55°	4658.0	4722.8	4941.2	6012.0	7522.4	9933.7	12792.7	14305.8	14912.7	15195.9	11514.3
57.5°	2262.9	2141.6	2408.6	3269.0	4345.2	6680.9	9866.3	12461.0	13779.9	14292.4	10910.1
60°	1181.4	1227.2	1332.4	1639.9	2246.8	3468.6	6149.6	8304.6	10319.4	11107.0	8269.6
62.5°	979.1	995.3	1065.4	1219.1	1494.2	1995.9	3139.5	4048.5	5262.2	5971.6	4703.9
65°	830.7	838.8	914.3	1016.8	1192.2	1405.2	1615.6	1691.1	2047.2	2101.1	1672.3
67.5°	693.2	701.3	782.2	879.3	992.6	1049.2	1103.1	1097.8	1138.2	1122.0	1119.3
70°	534.0	542.1	625.7	728.2	784.9	752.5	919.7	957.5	973.7	987.2	1008.7
72.5°	385.7	401.9	466.6	539.4	509.8	585.3	757.9	814.5	836.1	844.2	871.2
75°	280.5	285.9	302.1	280.5	323.7	407.3	534.0	604.2	631.1	639.2	679.7
77.5°	124.1	126.8	129.5	161.8	207.7	253.5	318.3	374.9	412.7	423.5	434.2
80°	64.7	67.4	83.6	110.6	148.3	186.1	232.0	264.3	288.6	291.3	302.1
82.5°	40.5	43.2	59.3	78.2	105.2	137.6	169.9	196.9	215.8	218.5	221.2
85°	18.9	24.3	35.1	48.5	70.1	89.0	91.7	78.2	83.6	86.3	80.9
87.5°	5.4	8.1	10.8	8.1	10.8	10.8	13.5	16.2	16.2	16.2	18.9
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°	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3
2.5°	3082.9	3058.6	2964.2	2929.1	2837.4	2853.6	2805.1	2802.4	2791.6	2788.9	2786.2
5°	3158.4	3082.9	2969.6	2883.3	2832.0	2826.6	2791.6	2791.6	2802.4	2810.5	2791.6
7.5°	3282.5	3196.2	3004.7	2923.7	2877.9	2869.8	2845.5	2826.6	2850.9	2842.8	2821.3
10°	3425.4	3274.4	3072.1	3002.0	2926.4	2907.6	2907.6	2915.7	2875.2	2888.7	2867.1
12.5°	3584.6	3382.3	3158.4	3077.5	2988.5	2977.7	2972.3	2913.0	2934.5	2923.7	2869.8
15°	3786.8	3506.3	3269.0	3131.4	3055.9	3007.4	2937.2	2926.4	2913.0	2886.0	2861.7
17.5°	4005.3	3641.2	3320.2	3147.6	3034.3	2999.3	2945.3	2888.7	2848.2	2853.6	2834.7
20°	4191.4	3765.3	3339.1	3163.8	3018.1	2950.7	2867.1	2832.0	2788.9	2786.2	2783.5
22.5°	4412.6	3932.5	3366.1	3120.6	2969.6	2899.5	2842.8	2780.8	2751.1	2713.4	2732.2
25°	4676.9	3997.2	3371.5	3096.4	2934.5	2810.5	2780.8	2713.4	2702.6	2648.6	2659.4
27.5°	4868.4	4032.3	3328.3	3020.8	2853.6	2759.2	2705.3	2656.7	2637.8	2597.4	2586.6
30°	5124.6	4086.2	3236.6	2926.4	2772.7	2667.5	2635.1	2624.4	2570.4	2527.3	2521.9
32.5°	5415.9	4121.3	3177.3	2829.3	2689.1	2608.2	2624.4	2573.1	2505.7	2467.9	2457.1
35°	5647.9	4134.8	3028.9	2718.8	2632.4	2581.2	2562.3	2551.5	2454.4	2419.4	2392.4
37.5°	6001.2	4105.1	2904.9	2640.5	2570.4	2551.5	2535.3	2462.5	2351.9	2300.7	2262.9
40°	6413.9	4097.0	2745.7	2530.0	2511.1	2532.7	2484.1	2370.8	2217.1	2160.4	2133.5
42.5°	6810.4	4153.7	2645.9	2470.6	2446.3	2454.4	2387.0	2217.1	2141.6	2109.2	2066.0
45°	7473.9	4272.3	2481.4	2378.9	2368.1	2362.7	2281.8	2103.8	2060.6	2020.2	2012.1
47.5°	8072.7	4194.1	2376.2	2284.5	2295.3	2265.6	2093.0	2036.4	1987.8	1947.4	1933.9
50°	8107.7	4008.0	2227.9	2211.7	2214.4	2163.1	1998.6	1960.9	1898.8	1871.8	1853.0
52.5°	7924.3	3703.2	2090.3	2095.7	2103.8	2020.2	1882.6	1855.7	1804.4	1766.7	1755.9
55°	7409.2	3228.5	1955.5	1977.0	1998.6	1839.5	1796.3	1728.9	1688.4	1634.5	1637.2
57.5°	6527.2	2600.1	1766.7	1801.7	1847.6	1672.3	1639.9	1556.3	1496.9	1453.8	1448.4
60°	4374.8	1850.3	1483.4	1496.9	1599.4	1529.3	1526.6	1443.0	1362.1	1324.3	1302.7
62.5°	2581.2	1413.3	1281.2	1267.7	1265.0	1305.4	1372.9	1343.2	1238.0	1165.2	1186.8
65°	1351.3	1221.8	1192.2	1146.3	1119.3	1108.5	1159.8	1173.3	1103.1	1024.9	1019.5
67.5°	1135.5	1135.5	1111.2	1095.1	1057.3	1011.4	979.1	935.9	925.1	903.6	876.6
70°	1033.0	1060.0	1051.9	1014.1	981.8	930.5	846.9	776.8	709.4	685.1	701.3
72.5°	900.9	927.8	927.8	908.9	865.8	787.6	706.7	625.7	569.1	526.0	520.6
75°	693.2	706.7	739.0	717.5	660.8	612.3	528.6	445.0	391.1	350.6	342.5
77.5°	442.3	463.9	463.9	461.2	420.8	374.9	321.0	261.6	221.2	191.5	183.4
80°	294.0	307.5	318.3	307.5	280.5	245.4	205.0	164.5	134.9	110.6	105.2
82.5°	215.8	232.0	240.0	229.3	202.3	175.3	145.6	116.0	86.3	67.4	62.0
85°	83.6	86.3	97.1	116.0	113.3	110.6	89.0	64.7	48.5	35.1	32.4
87.5°	21.6	18.9	21.6	21.6	18.9	16.2	16.2	16.2	16.2	8.1	10.8
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)