

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: P527388

Luminaire Tested: **GALN-SA2B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7343 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

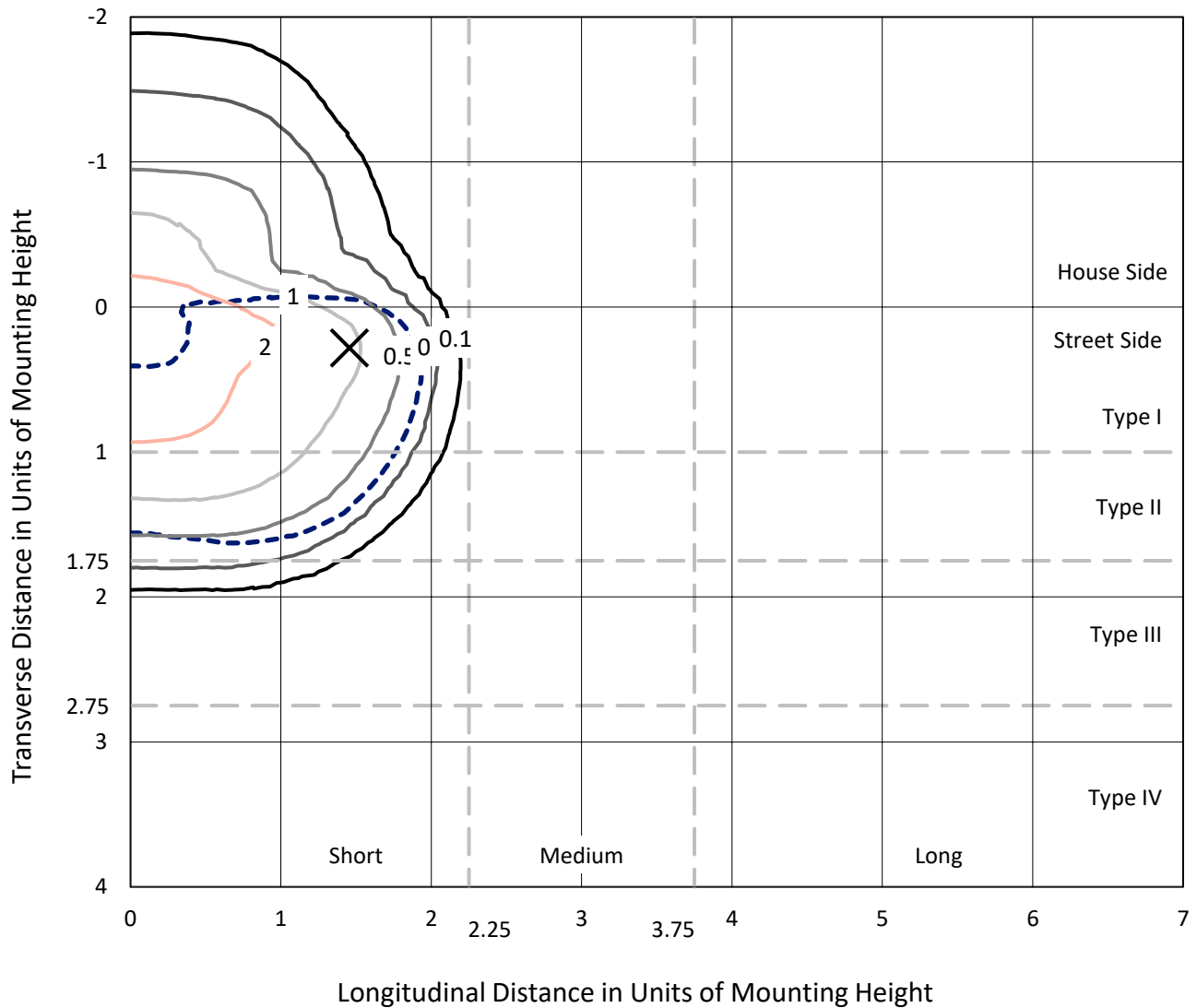
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527388  
 CATALOG NUMBER: GALN-SA2B-827-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

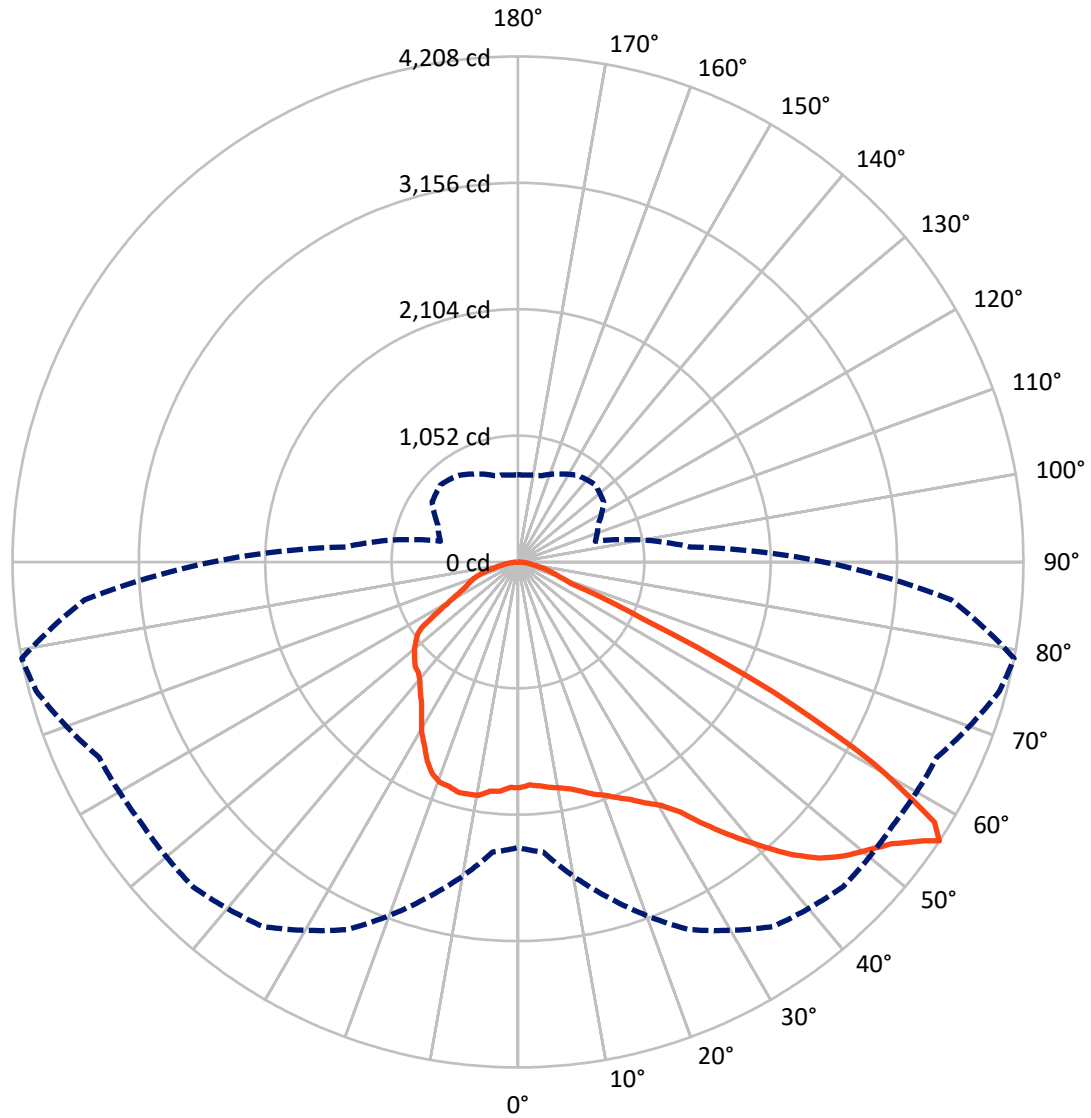
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

REPORT NUMBER: P527388  
CATALOG NUMBER: GALN-SA2B-827-U-T3R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA2B-827-U-T3R-GRSWH

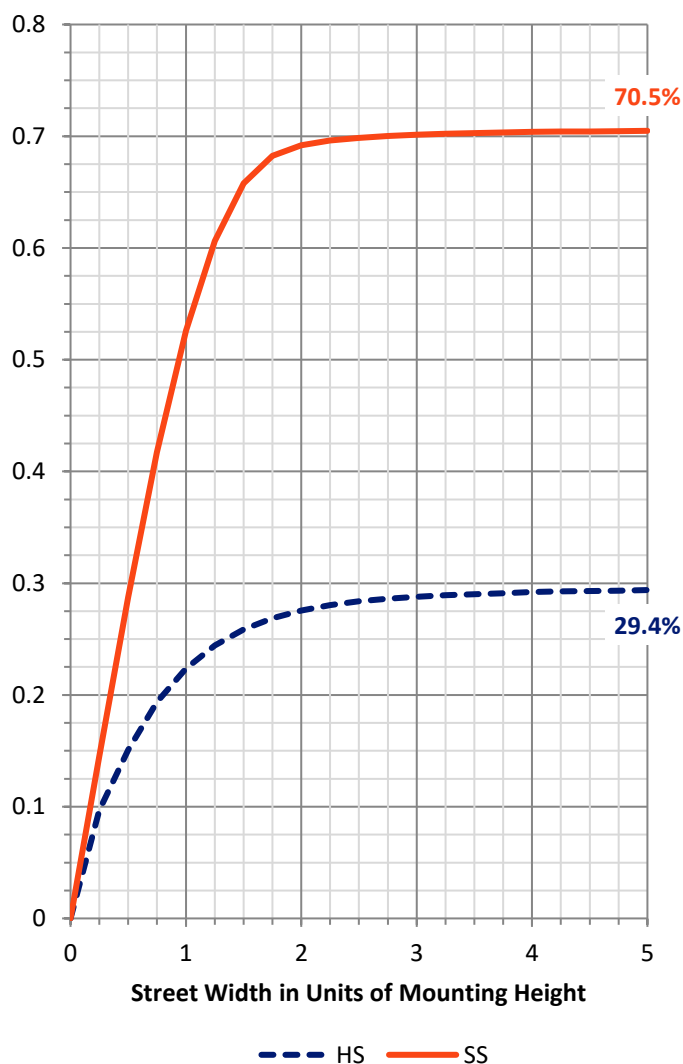
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2168.5	0.0	2168.5
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	5174.5	0.0	5174.5
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	7343.0	0.0	7343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.8	2.3
10°-20°	467.5	6.4
20°-30°	799.8	10.9
30°-40°	1225.7	16.7
40°-50°	1656.6	22.6
50°-60°	1902.6	25.9
60°-70°	867.3	11.8
70°-80°	213.8	2.9
80°-90°	38.9	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°	7343.0	100.0
0°-180°	7343.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527388

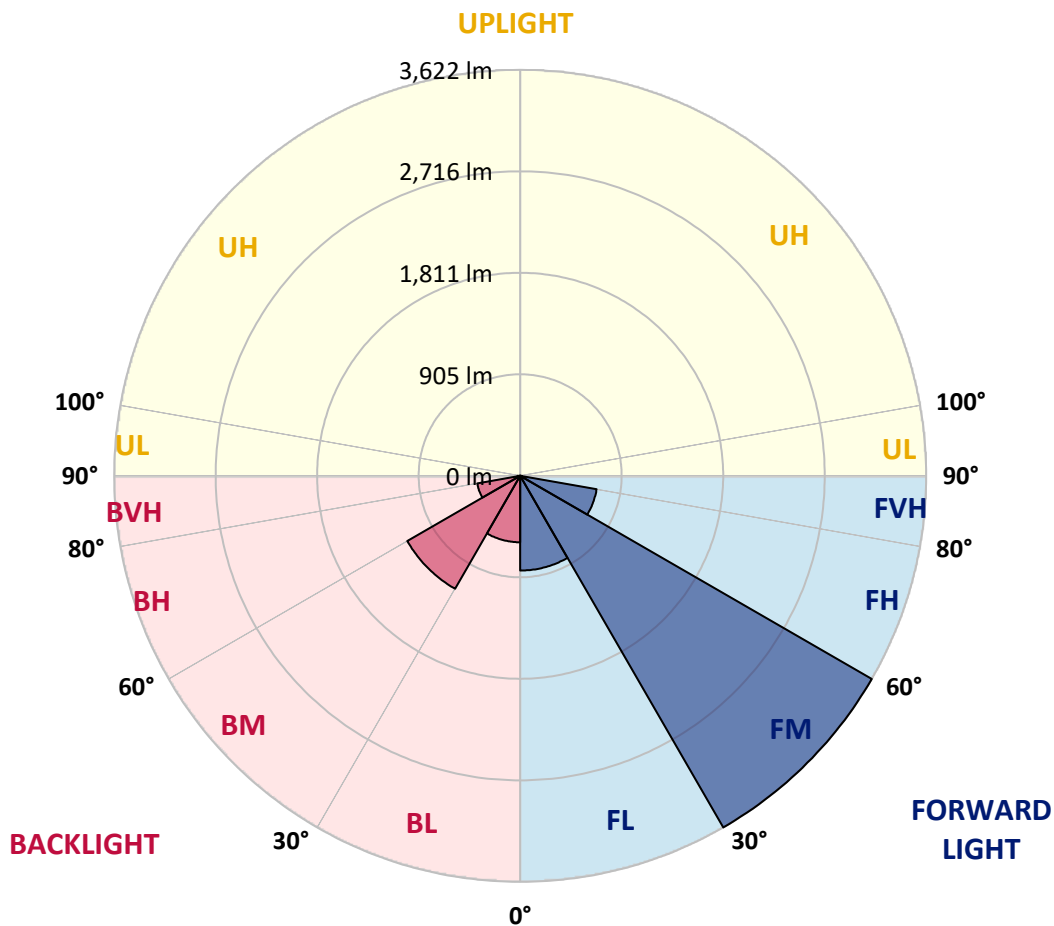
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.9	11.5			
FM (30°-60°)	3621.8	49.3			
FH (60°-80°)	692.3	9.4			G1/1800
FVH (80°-90°)	15.5	0.2			G1/100
BL (0°-30°)	593.2	8.1	B2/1000		
BM (30°-60°)	1163.2	15.8	B2/2500		
BH (60°-80°)	388.8	5.3	B1/500		G1/500
BVH (80°-90°)	23.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P527388

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8
2.5°	1787.3	1782.7	1793.7	1801.9	1812.0	1824.8	1831.2	1834.9	1866.9	1858.7	1883.4
5°	1748.9	1737.0	1745.2	1751.6	1769.0	1784.6	1801.9	1829.4	1858.7	1871.5	1901.7
7.5°	1715.1	1708.6	1706.8	1711.4	1735.2	1755.3	1785.5	1825.7	1873.3	1894.3	1911.7
10°	1659.3	1650.1	1663.8	1694.0	1700.4	1742.5	1777.3	1834.9	1876.0	1912.6	1963.8
12.5°	1634.6	1625.4	1628.2	1645.5	1690.4	1730.6	1771.8	1836.7	1923.6	1938.2	2006.8
15°	1673.9	1664.7	1667.5	1662.9	1705.9	1726.9	1791.9	1873.3	1956.5	1981.2	2054.4
17.5°	1763.5	1764.4	1752.6	1742.5	1732.4	1777.3	1822.1	1895.2	1969.3	2031.5	2086.4
20°	1934.6	1904.4	1880.6	1823.9	1808.4	1827.6	1884.3	1954.7	2021.5	2072.7	2134.9
22.5°	2066.3	2069.0	2035.2	1941.9	1908.1	1916.3	1964.8	2022.4	2095.6	2132.2	2203.5
25°	2257.5	2238.3	2201.7	2127.6	2051.7	2058.1	2093.7	2145.9	2166.0	2191.6	2269.4
27.5°	2432.2	2437.7	2365.4	2295.9	2201.7	2183.4	2247.4	2256.6	2222.7	2271.2	2297.7
30°	2609.6	2605.1	2557.5	2476.1	2383.7	2387.4	2415.7	2370.9	2324.2	2350.8	2369.1
32.5°	2793.5	2741.3	2739.5	2666.3	2595.9	2562.1	2527.3	2549.3	2477.0	2482.5	2465.1
35°	2940.7	2948.1	2906.0	2853.8	2819.1	2759.6	2664.5	2703.8	2690.1	2683.7	2608.7
37.5°	3047.8	3019.4	3040.4	3023.1	2990.1	2916.0	2817.3	2854.8	2861.2	2892.3	2805.4
40°	3135.6	3123.7	3179.5	3188.6	3165.8	3005.7	2828.2	2939.8	3035.9	3103.6	3000.2
42.5°	3177.6	3203.3	3261.8	3332.2	3281.0	3110.0	2884.9	3004.8	3218.8	3325.8	3185.0
45°	3234.4	3201.4	3288.3	3417.3	3418.2	3197.8	2939.8	3092.6	3361.5	3517.0	3311.2
47.5°	3176.7	3193.2	3282.8	3446.6	3488.6	3290.2	3088.0	3217.0	3518.8	3656.9	3428.3
50°	3047.8	3080.7	3244.4	3414.6	3541.7	3388.0	3258.1	3351.4	3664.3	3769.5	3447.5
52.5°	2913.3	2931.6	3187.7	3439.3	3565.5	3514.3	3485.9	3537.1	3841.7	3896.6	3471.3
55°	2547.4	2634.3	3000.2	3428.3	3681.6	3742.0	3720.1	3795.1	4043.0	4097.8	3601.2
56°	2378.2	2423.9	2887.7	3377.1	3704.5	3825.3	3814.3	3848.1	4150.0	4207.6	3621.3
57.5°	2065.4	2069.0	2462.4	3150.2	3618.5	3850.0	3839.0	3865.5	4128.9	4089.6	3444.7
60°	1292.5	1349.2	1675.7	2423.0	3077.0	3571.9	3634.1	3421.0	3481.3	3398.1	2680.1
62.5°	669.6	661.3	878.1	1416.9	2042.5	2557.5	2615.1	2605.1	2511.8	2390.1	1750.7
65°	333.9	335.7	459.2	701.6	1046.4	1339.1	1500.1	1517.5	1269.6	1168.1	830.5
67.5°	242.4	251.5	330.2	429.0	493.0	551.6	676.0	663.2	502.2	477.5	442.7
70°	188.4	196.7	268.0	327.5	297.3	297.3	323.8	334.8	357.6	367.7	379.6
72.5°	137.2	143.6	204.9	225.9	194.8	209.5	242.4	268.0	291.8	295.4	309.2
75°	94.2	99.7	134.5	124.4	117.1	144.5	177.5	201.2	218.6	227.8	236.0
77.5°	61.3	63.1	76.8	64.9	75.0	93.3	115.3	135.4	152.8	160.1	161.9
80°	27.4	30.2	32.9	41.2	52.1	66.8	82.3	98.8	109.8	112.5	118.0
82.5°	15.5	15.5	20.1	29.3	38.4	48.5	59.5	71.3	84.2	86.9	86.0
85°	8.2	8.2	11.9	17.4	23.8	28.4	27.4	28.4	30.2	34.8	33.8
87.5°	2.7	2.7	3.7	3.7	4.6	5.5	4.6	6.4	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527388

CATALOG NUMBER: GALN-SA2B-827-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8
2.5°	1876.0	1884.3	1873.3	1897.1	1897.1	1892.5	1869.6	1877.0	1882.4	1882.4	1887.0
5°	1911.7	1909.0	1916.3	1887.9	1870.6	1864.1	1826.6	1808.4	1792.8	1791.9	1778.2
7.5°	1931.8	1924.5	1921.8	1900.7	1823.9	1777.3	1696.8	1650.1	1640.0	1604.4	1618.1
10°	1963.8	1977.6	1963.8	1849.5	1742.5	1635.5	1556.8	1484.5	1456.2	1433.3	1419.6
12.5°	2029.7	2023.3	1943.7	1789.1	1639.1	1512.0	1394.9	1319.0	1290.6	1270.5	1268.7
15°	2085.5	2053.5	1931.8	1694.0	1478.1	1342.8	1246.7	1192.8	1180.0	1181.8	1190.0
17.5°	2104.7	2082.8	1869.6	1595.2	1358.3	1199.2	1154.3	1146.1	1158.0	1171.7	1175.4
20°	2134.9	2100.1	1844.0	1460.8	1210.1	1109.5	1106.8	1136.1	1158.0	1178.1	1180.9
22.5°	2198.0	2110.2	1760.8	1333.6	1108.6	1083.0	1109.5	1134.2	1168.1	1184.5	1169.9
25°	2216.3	2088.2	1643.7	1180.9	1044.6	1066.5	1094.9	1128.7	1152.5	1161.7	1168.1
27.5°	2231.9	2054.4	1485.5	1079.3	1024.5	1065.6	1094.9	1123.2	1136.1	1144.3	1151.6
30°	2275.8	2044.3	1348.3	1011.7	1011.7	1047.3	1084.8	1092.1	1109.5	1119.6	1132.4
32.5°	2297.7	1974.8	1207.4	968.7	998.8	1056.5	1059.2	1072.9	1073.9	1082.1	1068.4
35°	2355.3	1925.4	1076.6	937.6	1004.3	1047.3	1061.0	1052.8	1008.0	986.0	990.6
37.5°	2397.4	1900.7	982.4	933.9	1005.2	1057.4	1064.7	1002.5	955.9	919.3	928.4
40°	2510.8	1839.5	911.0	927.5	1013.5	1068.4	1048.2	980.6	896.4	858.9	852.5
42.5°	2597.7	1795.5	866.2	920.2	1019.9	1083.9	1040.0	936.6	850.7	815.9	825.1
45°	2698.3	1785.5	842.4	922.0	1030.9	1092.1	1029.9	902.8	811.3	797.6	794.9
47.5°	2734.0	1713.2	816.8	906.5	1028.1	1089.4	996.1	877.2	796.7	798.5	805.8
50°	2674.6	1639.1	797.6	874.4	1009.8	1064.7	943.1	843.3	788.5	811.3	824.1
52.5°	2598.6	1563.2	758.3	831.5	972.3	1026.3	918.4	841.5	780.2	772.9	775.7
55°	2621.5	1501.0	703.4	772.9	912.0	954.9	890.9	824.1	760.1	732.7	741.8
56°	2547.4	1437.0	667.7	736.3	870.8	909.2	877.2	808.6	743.6	725.4	725.4
57.5°	2338.0	1222.0	621.1	677.8	783.9	829.6	850.7	799.4	725.4	693.3	694.3
60°	1724.2	869.0	557.0	597.3	649.4	686.0	783.9	773.8	679.6	657.7	649.4
62.5°	1062.9	634.8	511.3	526.9	553.4	583.6	684.2	700.7	631.1	607.4	601.9
65°	595.5	485.7	476.6	483.0	495.8	511.3	568.0	604.6	557.0	520.5	518.6
67.5°	435.4	434.5	441.8	447.3	452.8	452.8	466.5	481.1	474.7	445.5	442.7
70°	386.9	389.7	395.1	396.1	397.9	391.5	380.5	375.9	383.3	365.0	361.3
72.5°	319.2	328.4	334.8	335.7	325.6	317.4	302.8	287.2	281.7	278.1	277.2
75°	245.1	251.5	254.3	253.4	249.7	237.8	220.4	204.9	194.8	183.9	189.3
77.5°	165.6	174.7	179.3	179.3	173.8	155.5	147.3	135.4	125.3	113.4	115.3
80°	116.2	122.6	129.9	129.0	119.8	110.7	98.8	87.8	79.6	70.4	69.5
82.5°	86.9	90.6	94.2	92.4	86.0	76.8	68.6	58.5	49.4	43.0	43.0
85°	31.1	33.8	41.2	43.0	46.6	46.6	39.3	32.9	26.5	22.0	22.0
87.5°	9.1	9.1	10.1	10.1	9.1	10.1	8.2	9.1	10.1	6.4	6.4
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)