

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: P651729

Luminaire Tested: **GALN-SA2A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6543 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

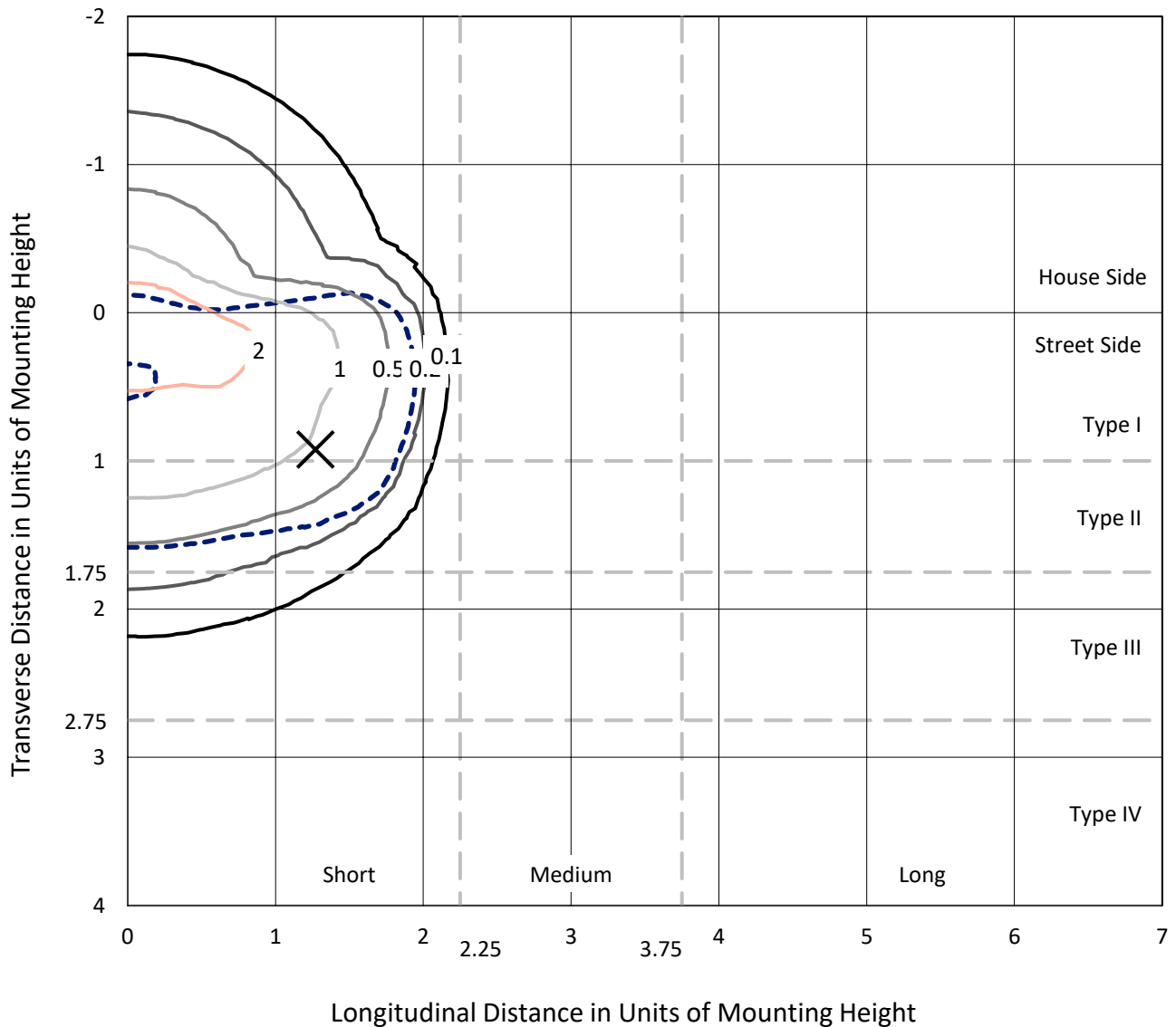
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651729
 CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

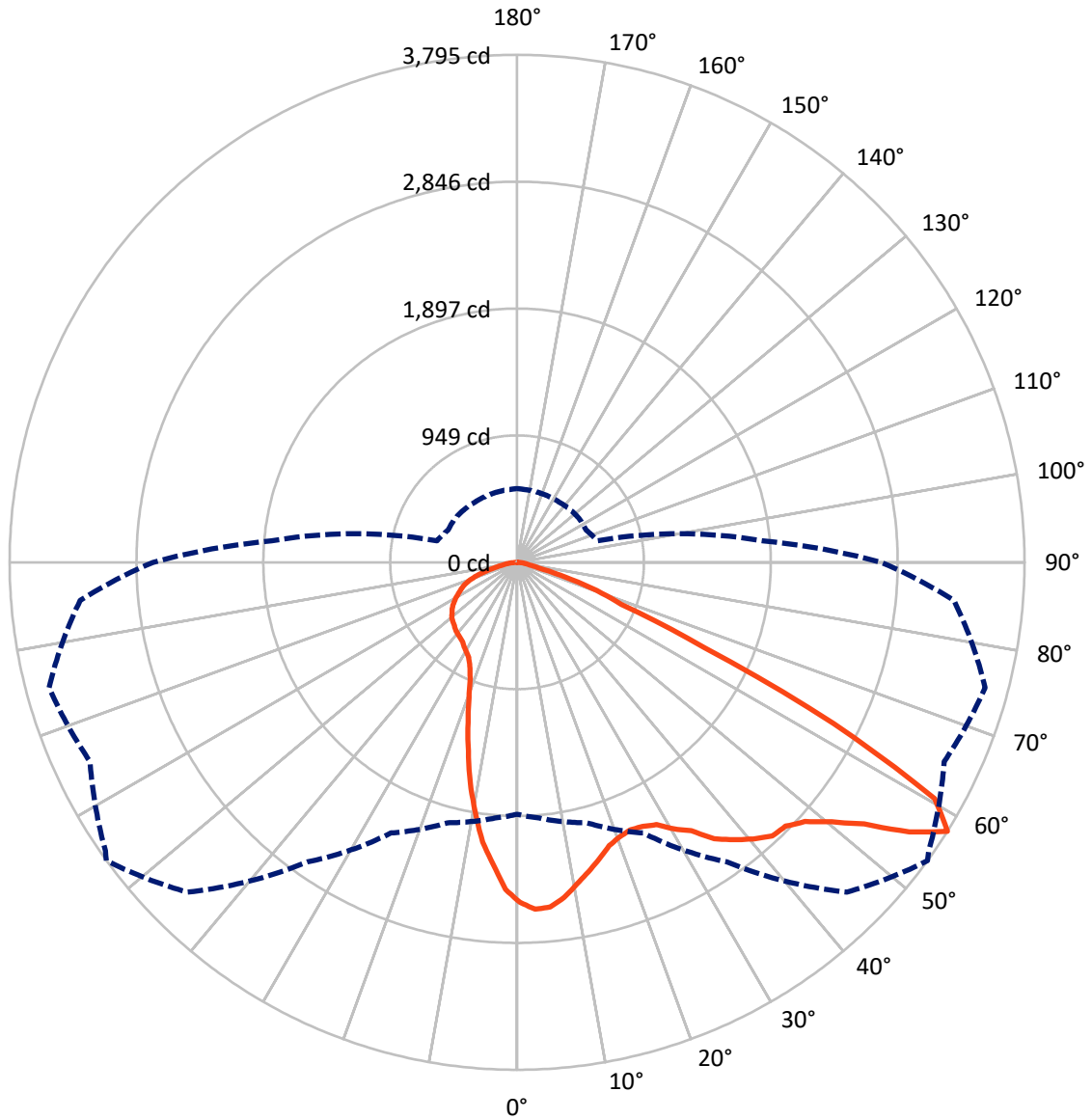
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P651729
CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P651729
 CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

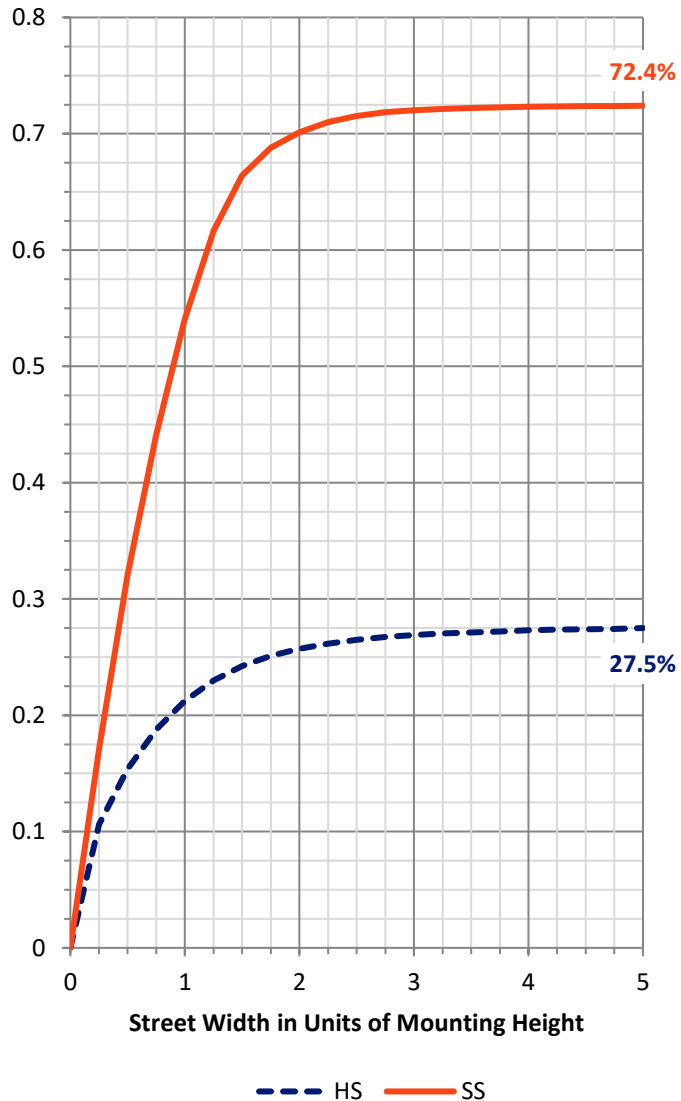
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.2	0.0	1810.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4732.8	0.0	4732.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	6543.0	0.0	6543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	3.4
10°-20°	507.8	7.8
20°-30°	713.5	10.9
30°-40°	997.5	15.2
40°-50°	1350.4	20.6
50°-60°	1644.8	25.1
60°-70°	856.7	13.1
70°-80°	219.5	3.4
80°-90°	33.5	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°	6543.0	100.0
0°-180°	6543.0	100.0

Coefficient of Utilization

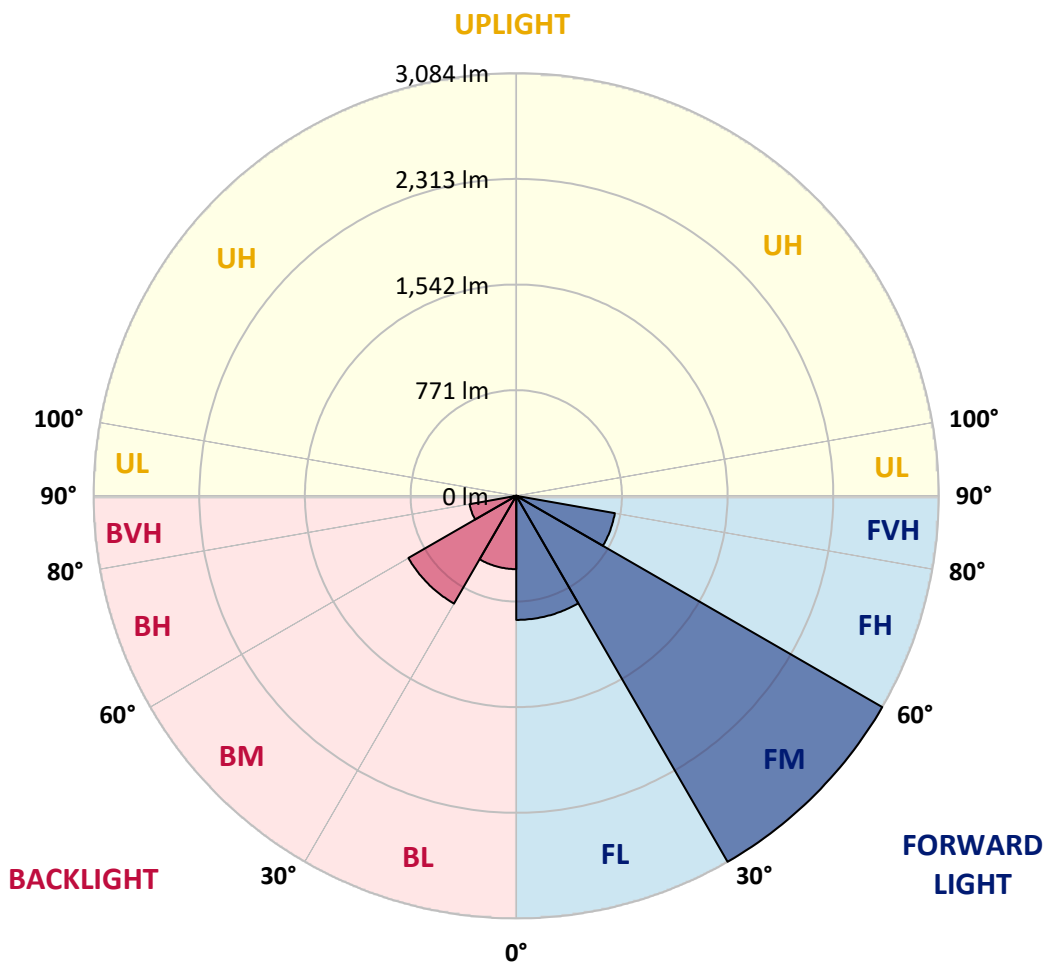


REPORT NUMBER: P651729
 CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.6	13.8			
FM (30°-60°)	3084.2	47.1			
FH (60°-80°)	730.4	11.2			G1/1800
FVH (80°-90°)	12.6	0.2			G1/100
BL (0°-30°)	535.0	8.2	B2/1000		
BM (30°-60°)	908.5	13.9	B1/1000		
BH (60°-80°)	345.8	5.3	B1/500		G1/500
BVH (80°-90°)	20.8	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: P651729
 CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2
2.5°	2615.5	2605.4	2607.1	2620.6	2603.7	2597.0	2597.0	2564.2	2566.7	2544.0	2538.1
5°	2555.0	2531.4	2547.4	2567.6	2570.9	2577.7	2588.6	2580.2	2556.6	2532.3	2492.7
7.5°	2396.8	2417.9	2423.8	2438.1	2468.3	2496.1	2530.6	2507.0	2506.2	2481.8	2458.2
10°	2258.1	2245.5	2277.4	2298.5	2348.9	2395.2	2448.2	2445.6	2458.2	2430.5	2390.1
12.5°	2120.2	2110.1	2125.2	2173.1	2243.8	2311.1	2374.1	2350.6	2417.9	2412.8	2326.2
15°	1973.8	1981.4	2003.3	2047.8	2140.3	2221.1	2301.0	2301.8	2361.5	2381.7	2265.7
17.5°	1871.2	1862.8	1890.6	1957.0	2039.4	2136.1	2227.0	2245.5	2337.1	2348.9	2247.2
20°	1794.7	1806.5	1842.6	1876.3	1971.3	2088.2	2190.8	2197.5	2332.1	2364.1	2217.7
22.5°	1776.2	1769.5	1781.2	1835.9	1914.1	2041.1	2171.5	2196.7	2331.3	2359.0	2162.2
25°	1756.8	1778.7	1777.9	1832.5	1889.7	2003.3	2187.4	2215.2	2375.8	2385.1	2169.8
27.5°	1800.6	1798.1	1821.6	1825.8	1896.5	2013.4	2221.1	2242.1	2449.8	2442.3	2175.7
30°	1844.3	1831.7	1846.0	1895.6	1928.4	2071.4	2313.6	2311.9	2545.7	2540.7	2194.2
32.5°	1898.1	1892.2	1901.5	1945.2	2000.7	2148.8	2391.8	2441.4	2643.3	2675.2	2258.1
35°	1908.2	1932.6	1954.5	2013.4	2092.4	2274.1	2539.0	2580.2	2756.0	2856.0	2380.0
37.5°	1972.1	1981.4	2032.7	2137.0	2209.3	2441.4	2632.3	2658.4	2858.6	2972.1	2508.7
40°	2040.3	2051.2	2128.6	2237.9	2337.1	2550.8	2719.8	2728.2	2891.4	3061.2	2592.8
42.5°	2132.8	2142.9	2219.4	2356.5	2489.4	2644.1	2797.2	2806.4	2888.8	3163.8	2726.5
45°	2228.6	2253.0	2343.0	2498.6	2618.0	2753.4	2814.8	2852.7	2912.4	3255.5	2835.0
47.5°	2363.2	2385.9	2459.9	2612.1	2751.8	2849.3	2896.4	2933.4	2968.7	3335.4	2904.8
50°	2506.2	2510.4	2600.4	2738.3	2840.9	2957.8	3048.6	3061.2	3042.7	3427.9	3023.4
52.5°	2611.3	2624.8	2694.6	2829.1	2982.2	3126.0	3250.5	3263.9	3227.8	3462.4	3063.8
55°	2437.2	2429.6	2543.2	2722.3	3077.2	3376.6	3557.4	3567.5	3362.3	3569.2	3195.8
57.5°	1883.8	1920.0	2016.7	2232.9	2734.1	3487.6	3794.6	3758.4	3523.8	3623.0	3279.9
60°	1369.1	1360.7	1425.5	1570.1	2060.4	3005.7	3587.7	3624.7	3391.8	3265.6	2704.7
62.5°	1115.2	1103.4	1108.4	1113.5	1329.6	1994.9	2655.9	2655.0	2612.1	2347.2	1824.1
65°	891.5	919.2	921.7	959.6	987.3	1191.7	1539.0	1621.4	1412.0	1158.1	840.2
67.5°	672.0	661.9	695.5	830.1	882.2	860.3	840.2	849.4	603.8	435.6	410.4
70°	396.1	391.9	432.3	578.6	726.6	683.7	633.3	634.1	414.6	304.4	338.9
72.5°	217.0	216.1	224.5	293.5	412.9	428.9	380.1	391.9	247.3	246.4	264.9
75°	121.1	118.6	116.1	129.5	148.9	157.3	160.6	162.3	169.9	190.1	197.6
77.5°	44.6	42.9	42.9	49.6	63.1	79.1	100.1	101.8	120.3	137.9	145.5
80°	15.1	16.8	22.7	31.1	42.0	56.3	68.1	69.8	84.9	96.7	99.2
82.5°	9.3	10.1	15.1	21.9	30.3	39.5	50.5	51.3	63.1	70.6	74.0
85°	4.2	5.0	8.4	13.5	19.3	26.1	26.9	26.9	26.1	26.9	25.2
87.5°	0.0	0.0	1.7	1.7	1.7	2.5	3.4	2.5	4.2	5.0	5.0
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: P651729

CATALOG NUMBER: GALN-SA2A-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2	2543.2
2.5°	2520.5	2511.2	2482.6	2457.4	2449.8	2416.2	2366.6	2372.5	2336.3	2353.1	2335.5
5°	2486.0	2454.9	2381.7	2350.6	2269.0	2232.0	2206.8	2143.7	2114.3	2108.4	2083.2
7.5°	2397.7	2378.3	2286.7	2202.6	2116.0	2041.9	1946.9	1882.2	1835.9	1823.3	1786.3
10°	2327.9	2285.0	2158.0	2030.2	1906.5	1777.9	1654.2	1557.5	1510.4	1455.8	1437.3
12.5°	2258.9	2194.2	2022.6	1858.6	1698.8	1536.5	1386.8	1269.1	1166.5	1142.1	1133.7
15°	2216.0	2103.3	1901.5	1703.9	1476.8	1264.9	1115.2	1037.8	974.7	948.6	967.2
17.5°	2159.7	2028.5	1785.4	1522.2	1272.4	1077.3	952.0	904.1	881.4	883.9	876.3
20°	2089.0	1957.8	1633.2	1357.4	1089.9	934.4	862.9	845.2	848.6	854.5	851.9
22.5°	2038.6	1872.1	1523.1	1189.2	941.9	855.3	825.9	813.2	824.2	829.2	825.0
25°	1999.9	1798.9	1389.3	1040.3	856.1	810.7	797.3	796.4	813.2	820.0	815.8
27.5°	1964.6	1730.8	1256.5	926.8	798.9	776.2	772.0	782.1	793.1	799.8	805.7
30°	1943.6	1678.6	1132.0	831.7	770.4	759.4	751.9	761.1	767.0	773.7	770.4
32.5°	1963.7	1641.6	1011.7	777.9	746.8	735.9	746.0	740.1	750.2	756.1	746.8
35°	2026.8	1608.8	925.9	749.3	719.9	724.1	725.8	723.3	727.5	722.4	733.4
37.5°	2089.0	1597.1	846.9	724.9	707.3	707.3	705.6	700.6	709.0	707.3	712.3
40°	2168.1	1604.6	779.6	698.9	695.5	693.8	687.1	686.3	682.9	683.7	685.4
42.5°	2237.1	1621.4	740.9	682.1	684.6	687.9	675.3	665.2	669.4	661.0	661.0
45°	2310.2	1636.6	706.4	670.3	667.8	666.9	656.8	650.9	647.6	648.4	656.0
47.5°	2425.4	1658.5	680.4	654.3	656.0	643.4	640.8	633.3	636.6	641.7	642.5
50°	2507.0	1704.7	660.2	635.8	641.7	633.3	618.1	614.8	614.8	623.2	621.5
52.5°	2564.2	1769.5	640.8	615.6	618.1	611.4	606.4	598.8	593.7	605.5	611.4
55°	2739.1	1877.1	635.8	598.8	598.0	591.2	582.0	574.4	571.9	573.6	585.3
57.5°	2722.3	1843.5	619.8	569.4	567.7	558.4	549.2	546.6	545.8	547.5	550.9
60°	2210.1	1361.6	553.4	535.7	533.2	531.5	522.3	512.2	507.1	512.2	508.0
62.5°	1462.5	911.6	487.8	495.3	497.0	492.8	477.7	467.6	469.3	475.2	465.9
65°	718.2	535.7	442.4	462.6	464.2	452.5	438.2	426.4	420.5	425.5	421.3
67.5°	410.4	409.6	405.4	426.4	425.5	413.8	391.1	381.0	370.9	372.6	370.0
70°	348.2	354.9	363.3	375.9	375.1	361.6	334.7	327.1	312.9	311.2	307.0
72.5°	274.2	285.9	304.4	313.7	306.1	289.3	271.6	259.0	246.4	238.8	241.4
75°	203.5	220.3	230.4	236.3	224.5	215.3	201.0	185.9	170.7	164.0	161.5
77.5°	148.0	153.1	162.3	166.5	158.9	149.7	141.3	126.2	111.9	102.6	100.1
80°	103.4	106.8	113.5	113.5	113.5	109.3	98.4	83.3	74.0	65.6	63.9
82.5°	72.3	75.7	82.4	79.1	78.2	73.2	66.4	54.7	44.6	38.7	37.0
85°	25.2	27.8	33.6	40.4	42.9	42.0	37.8	30.3	23.5	19.3	17.7
87.5°	5.9	5.9	6.7	5.9	5.9	6.7	5.9	5.9	5.9	4.2	3.4
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)