

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: P647769

Luminaire Tested: **GALN-SA2A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647769  
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-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 6091.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

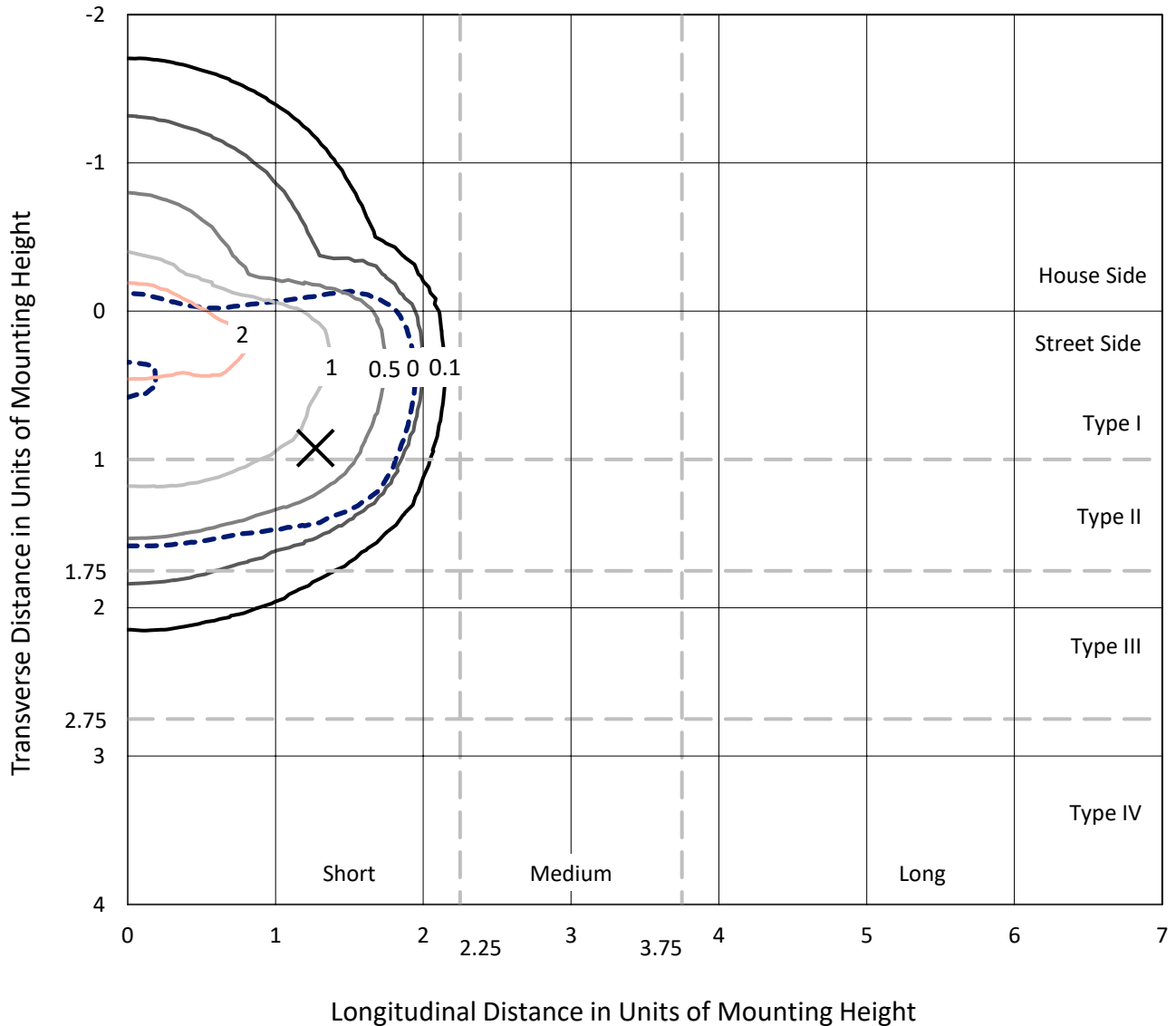
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

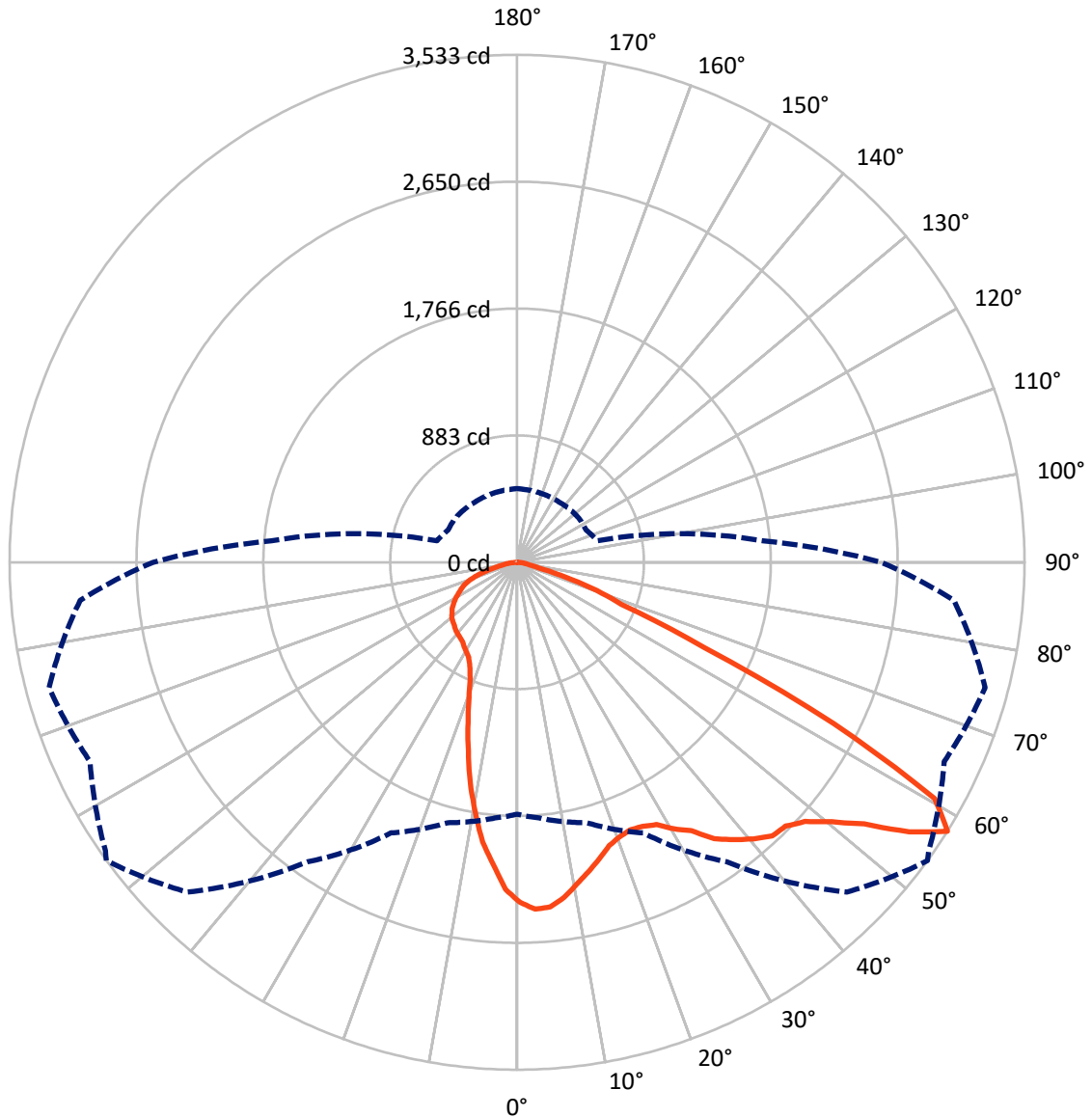
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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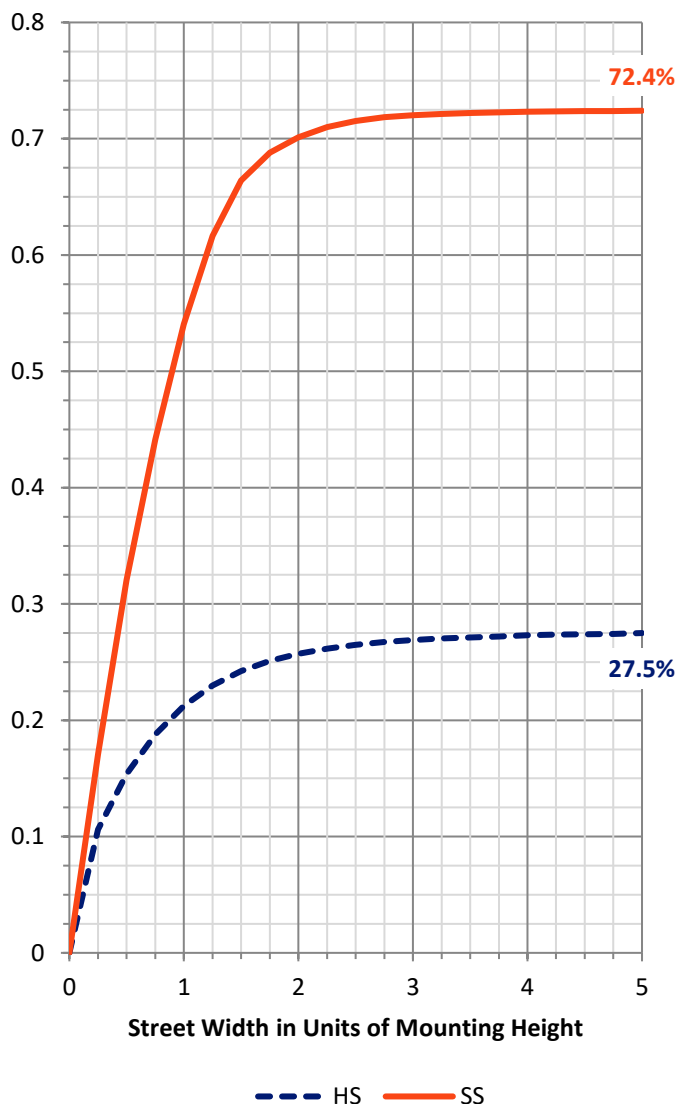
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1685.3	0.0	1685.3
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	4406.4	0.0	4406.4
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	6091.7	0.0	6091.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	3.4
10°-20°	472.8	7.8
20°-30°	664.3	10.9
30°-40°	928.7	15.2
40°-50°	1257.2	20.6
50°-60°	1531.4	25.1
60°-70°	797.6	13.1
70°-80°	204.4	3.4
80°-90°	31.2	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°	6091.7	100.0
0°-180°	6091.7	100.0

**Coefficient of Utilization**

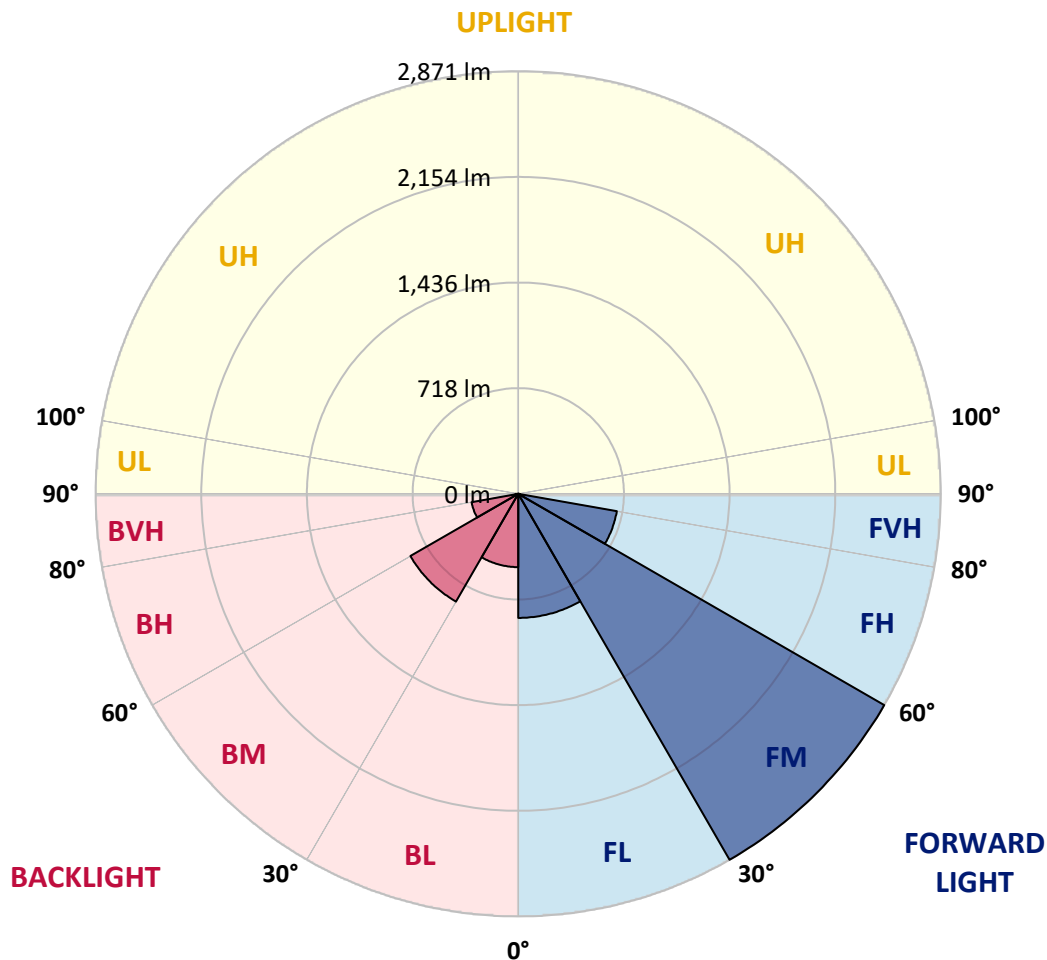


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.2	13.8			
FM (30°-60°)	2871.5	47.1			
FH (60°-80°)	680.0	11.2			G1/1800
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	498.1	8.2	B1/500		
BM (30°-60°)	845.8	13.9	B1/1000		
BH (60°-80°)	322.0	5.3	B1/500		G1/500
BVH (80°-90°)	19.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2435.1	2425.7	2427.3	2439.8	2424.2	2417.9	2417.9	2387.4	2389.7	2368.6	2363.1
5°	2378.8	2356.8	2371.7	2390.5	2393.6	2399.9	2410.1	2402.2	2380.3	2357.6	2320.8
7.5°	2231.6	2251.1	2256.6	2269.9	2298.1	2323.9	2356.0	2334.1	2333.3	2310.6	2288.7
10°	2102.4	2090.6	2120.4	2139.9	2186.9	2230.0	2279.3	2277.0	2288.7	2262.9	2225.3
12.5°	1973.9	1964.5	1978.6	2023.3	2089.0	2151.7	2210.4	2188.5	2251.1	2246.4	2165.8
15°	1837.7	1844.7	1865.1	1906.6	1992.7	2067.9	2142.3	2143.1	2198.7	2217.5	2109.4
17.5°	1742.2	1734.3	1760.2	1822.0	1898.8	1988.8	2073.4	2090.6	2176.0	2186.9	2092.2
20°	1670.9	1681.9	1715.6	1746.9	1835.4	1944.2	2039.7	2046.0	2171.3	2201.0	2064.8
22.5°	1653.7	1647.4	1658.4	1709.3	1782.1	1900.3	2021.7	2045.2	2170.5	2196.3	2013.1
25°	1635.7	1656.0	1655.3	1706.2	1759.4	1865.1	2036.6	2062.4	2212.0	2220.6	2020.1
27.5°	1676.4	1674.1	1696.0	1699.9	1765.7	1874.5	2067.9	2087.5	2280.9	2273.8	2025.6
30°	1717.1	1705.4	1718.7	1764.9	1795.4	1928.5	2154.0	2152.5	2370.1	2365.4	2042.8
32.5°	1767.2	1761.8	1770.4	1811.1	1862.8	2000.6	2226.9	2273.0	2461.0	2490.7	2102.4
35°	1776.6	1799.3	1819.7	1874.5	1948.1	2117.2	2363.9	2402.2	2565.9	2659.1	2215.9
37.5°	1836.1	1844.7	1892.5	1989.6	2056.9	2273.0	2450.8	2475.1	2661.4	2767.1	2335.7
40°	1899.6	1909.7	1981.8	2083.6	2176.0	2374.8	2532.2	2540.1	2692.0	2850.1	2414.0
42.5°	1985.7	1995.1	2066.3	2194.0	2317.7	2461.8	2604.3	2612.9	2689.6	2945.6	2538.5
45°	2075.0	2097.7	2181.4	2326.3	2437.5	2563.5	2620.7	2655.9	2711.5	3031.0	2639.5
47.5°	2200.2	2221.4	2290.3	2432.0	2562.0	2652.8	2696.7	2731.1	2764.0	3105.4	2704.5
50°	2333.3	2337.3	2421.0	2549.4	2645.0	2753.8	2838.4	2850.1	2832.9	3191.5	2814.9
52.5°	2431.2	2443.7	2508.7	2634.0	2776.5	2910.4	3026.3	3038.8	3005.2	3223.6	2852.5
55°	2269.1	2262.1	2367.8	2534.6	2865.0	3143.7	3312.1	3321.5	3130.4	3323.1	2975.4
57.5°	1753.9	1787.6	1877.6	2078.9	2545.5	3247.1	3532.9	3499.2	3280.8	3373.2	3053.7
60°	1274.7	1266.9	1327.2	1461.9	1918.4	2798.4	3340.3	3374.7	3157.8	3040.4	2518.1
62.5°	1038.3	1027.3	1032.0	1036.7	1237.9	1857.3	2472.7	2471.9	2432.0	2185.4	1698.3
65°	830.0	855.8	858.2	893.4	919.2	1109.5	1432.9	1509.6	1314.7	1078.2	782.2
67.5°	625.6	616.2	647.5	772.8	821.4	801.0	782.2	790.8	562.2	405.6	382.1
70°	368.8	364.9	402.5	538.7	676.5	636.6	589.6	590.4	386.0	283.4	315.5
72.5°	202.0	201.2	209.1	273.3	384.5	399.3	353.9	364.9	230.2	229.4	246.6
75°	112.8	110.4	108.1	120.6	138.6	146.4	149.6	151.1	158.2	177.0	184.0
77.5°	41.5	39.9	39.9	46.2	58.7	73.6	93.2	94.7	112.0	128.4	135.5
80°	14.1	15.7	21.1	29.0	39.2	52.5	63.4	65.0	79.1	90.0	92.4
82.5°	8.6	9.4	14.1	20.4	28.2	36.8	47.0	47.8	58.7	65.8	68.9
85°	3.9	4.7	7.8	12.5	18.0	24.3	25.1	25.1	24.3	25.1	23.5
87.5°	0.0	0.0	1.6	1.6	1.6	2.3	3.1	2.3	3.9	4.7	4.7
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°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2346.7	2338.0	2311.4	2287.9	2280.9	2249.6	2203.4	2208.8	2175.2	2190.8	2174.4
5°	2314.5	2285.6	2217.5	2188.5	2112.5	2078.1	2054.6	1995.9	1968.5	1963.0	1939.5
7.5°	2232.3	2214.3	2129.0	2050.7	1970.0	1901.1	1812.6	1752.4	1709.3	1697.5	1663.1
10°	2167.3	2127.4	2009.2	1890.2	1775.1	1655.3	1540.2	1450.1	1406.3	1355.4	1338.1
12.5°	2103.1	2042.8	1883.1	1730.4	1581.7	1430.5	1291.2	1181.5	1086.0	1063.3	1055.5
15°	2063.2	1958.3	1770.4	1586.4	1374.9	1177.6	1038.3	966.2	907.5	883.2	900.4
17.5°	2010.7	1888.6	1662.3	1417.2	1184.7	1003.0	886.4	841.7	820.6	822.9	815.9
20°	1945.0	1822.8	1520.6	1263.8	1014.8	869.9	803.4	786.9	790.0	795.5	793.2
22.5°	1898.0	1743.0	1418.0	1107.2	877.0	796.3	768.9	757.2	767.3	772.0	768.1
25°	1862.0	1674.8	1293.5	968.6	797.1	754.8	742.3	741.5	757.2	763.4	759.5
27.5°	1829.1	1611.4	1169.8	862.9	743.8	722.7	718.8	728.2	738.4	744.6	750.1
30°	1809.5	1562.9	1053.9	774.4	717.2	707.0	700.0	708.6	714.1	720.4	717.2
32.5°	1828.3	1528.4	941.9	724.3	695.3	685.1	694.5	689.0	698.4	703.9	695.3
35°	1887.0	1497.9	862.1	697.7	670.2	674.2	675.7	673.4	677.3	672.6	682.8
37.5°	1945.0	1486.9	788.5	674.9	658.5	658.5	656.9	652.2	660.1	658.5	663.2
40°	2018.6	1494.0	725.8	650.7	647.5	646.0	639.7	638.9	635.8	636.6	638.1
42.5°	2082.8	1509.6	689.8	635.0	637.4	640.5	628.7	619.4	623.3	615.4	615.4
45°	2150.9	1523.7	657.7	624.1	621.7	620.9	611.5	606.0	602.9	603.7	610.7
47.5°	2258.2	1544.1	633.4	609.2	610.7	599.0	596.6	589.6	592.7	597.4	598.2
50°	2334.1	1587.1	614.7	591.9	597.4	589.6	575.5	572.4	572.4	580.2	578.6
52.5°	2387.4	1647.4	596.6	573.2	575.5	569.2	564.5	557.5	552.8	563.8	569.2
55°	2550.2	1747.7	591.9	557.5	556.7	550.4	541.8	534.8	532.4	534.0	545.0
57.5°	2534.6	1716.3	577.1	530.1	528.5	519.9	511.3	509.0	508.2	509.7	512.9
60°	2057.7	1267.7	515.2	498.8	496.4	494.9	486.2	476.8	472.1	476.8	472.9
62.5°	1361.6	848.8	454.1	461.2	462.8	458.8	444.7	435.3	436.9	442.4	433.8
65°	668.7	498.8	411.9	430.6	432.2	421.3	407.9	397.0	391.5	396.2	392.3
67.5°	382.1	381.3	377.4	397.0	396.2	385.2	364.1	354.7	345.3	346.9	344.5
70°	324.2	330.4	338.3	350.0	349.2	336.7	311.6	304.6	291.3	289.7	285.8
72.5°	255.3	266.2	283.4	292.1	285.0	269.4	252.9	241.2	229.4	222.4	224.7
75°	189.5	205.1	214.5	220.0	209.1	200.4	187.1	173.0	158.9	152.7	150.3
77.5°	137.8	142.5	151.1	155.0	148.0	139.4	131.5	117.4	104.1	95.5	93.2
80°	96.3	99.4	105.7	105.7	105.7	101.8	91.6	77.5	68.9	61.1	59.5
82.5°	67.3	70.5	76.7	73.6	72.8	68.1	61.9	50.9	41.5	36.0	34.5
85°	23.5	25.8	31.3	37.6	39.9	39.2	35.2	28.2	21.9	18.0	16.4
87.5°	5.5	5.5	6.3	5.5	5.5	6.3	5.5	5.5	5.5	3.9	3.1
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)