

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: P526778

Luminaire Tested: **GALN-SA1D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526778  
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-SA1D-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6031 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

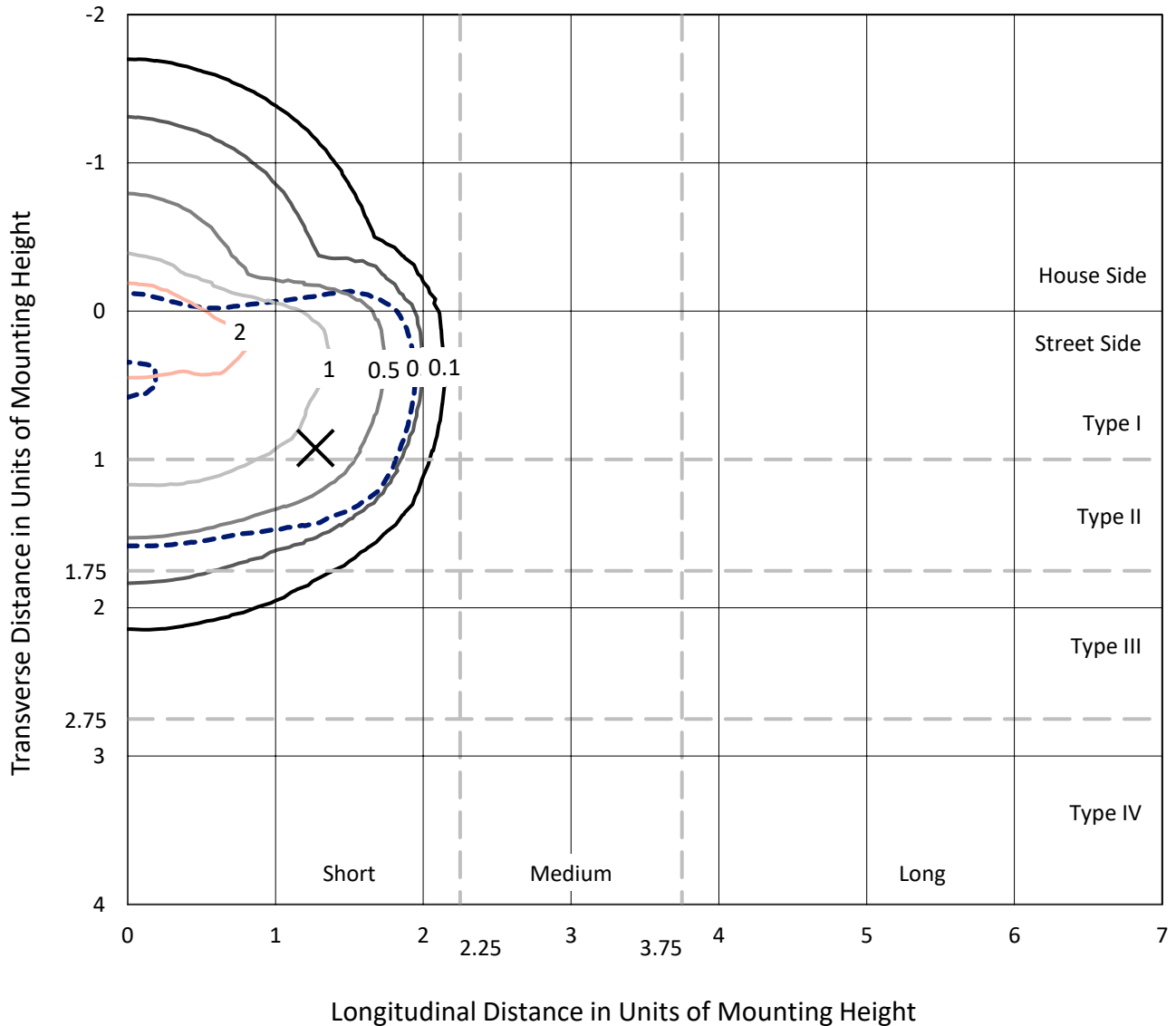
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

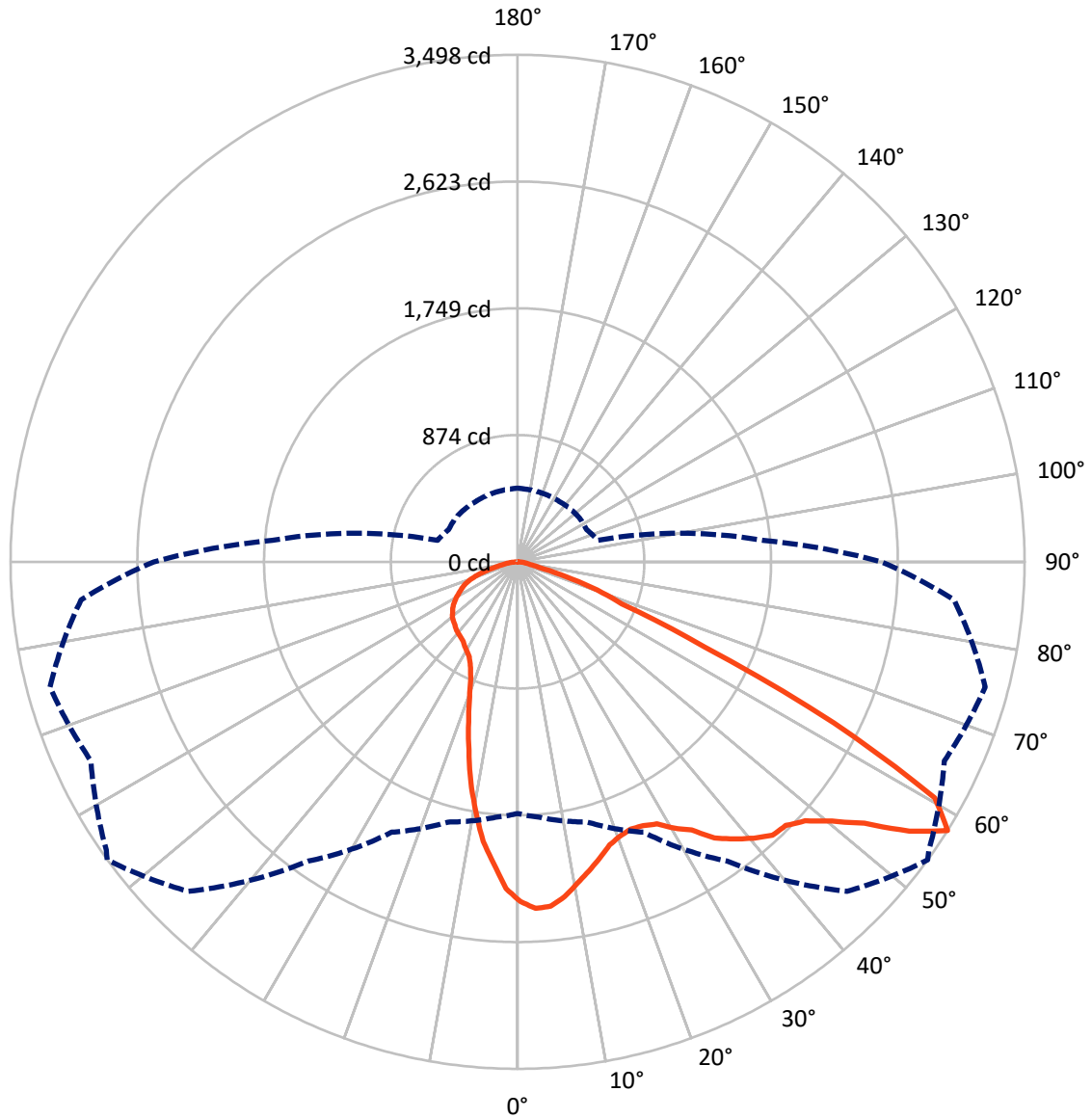
× Max cd  
 - - - 1/2 Max cd



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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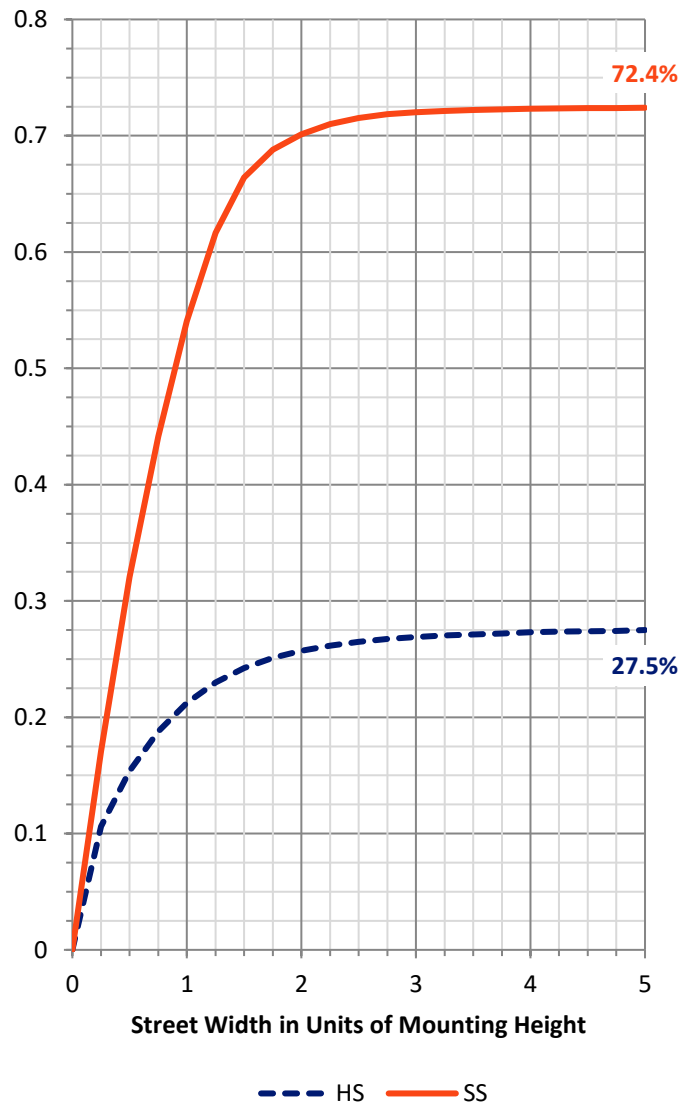
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1668.5	0.0	1668.5
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	4362.5	0.0	4362.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	6031.0	0.0	6031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	3.4
10°-20°	468.1	7.8
20°-30°	657.7	10.9
30°-40°	919.4	15.2
40°-50°	1244.7	20.6
50°-60°	1516.1	25.1
60°-70°	789.7	13.1
70°-80°	202.3	3.4
80°-90°	30.9	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°	6031.0	100.0
0°-180°	6031.0	100.0

**Coefficient of Utilization**

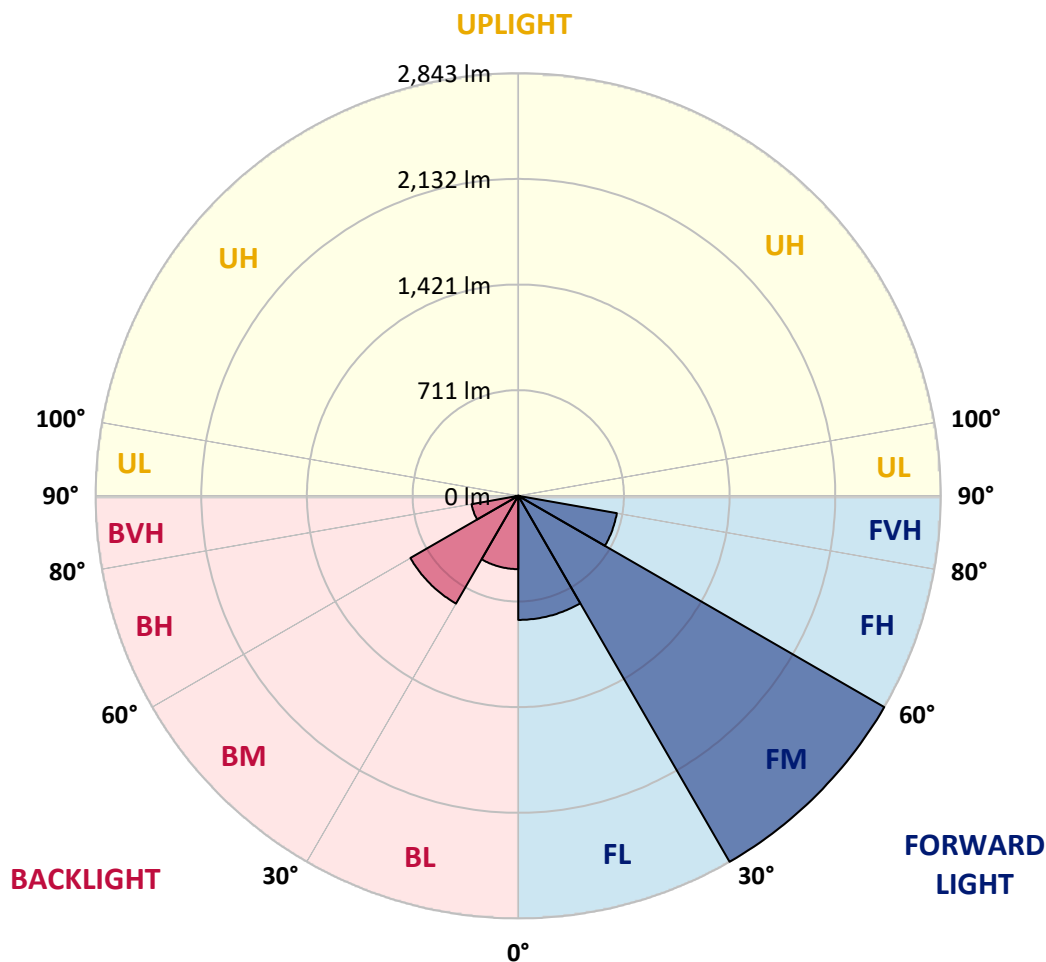


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.8	13.8			
FM (30°-60°)	2842.8	47.1			
FH (60°-80°)	673.2	11.2			G1/1800
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	493.1	8.2	B1/500		
BM (30°-60°)	837.4	13.9	B1/1000		
BH (60°-80°)	318.8	5.3	B1/500		G1/500
BVH (80°-90°)	19.2	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°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2410.8	2401.5	2403.1	2415.5	2400.0	2393.8	2393.8	2363.6	2365.9	2345.0	2339.5
5°	2355.0	2333.3	2348.1	2366.7	2369.8	2376.0	2386.0	2378.3	2356.6	2334.1	2297.7
7.5°	2209.3	2228.7	2234.1	2247.3	2275.2	2300.8	2332.6	2310.8	2310.1	2287.6	2265.9
10°	2081.4	2069.8	2099.2	2118.6	2165.1	2207.7	2256.6	2254.3	2265.9	2240.3	2203.1
12.5°	1954.3	1945.0	1958.9	2003.1	2068.2	2130.2	2188.4	2166.7	2228.7	2224.0	2144.2
15°	1819.4	1826.4	1846.5	1887.6	1972.9	2047.3	2120.9	2121.7	2176.7	2195.3	2088.4
17.5°	1724.8	1717.1	1742.6	1803.9	1879.8	1969.0	2052.7	2069.8	2154.3	2165.1	2071.3
20°	1654.3	1665.1	1698.4	1729.5	1817.1	1924.8	2019.4	2025.6	2149.6	2179.1	2044.2
22.5°	1637.2	1631.0	1641.9	1692.2	1764.3	1881.4	2001.5	2024.8	2148.8	2174.4	1993.0
25°	1619.4	1639.5	1638.8	1689.1	1741.9	1846.5	2016.3	2041.9	2189.9	2198.4	2000.0
27.5°	1659.7	1657.4	1679.1	1682.9	1748.1	1855.8	2047.3	2066.7	2258.1	2251.2	2005.4
30°	1700.0	1688.4	1701.5	1747.3	1777.5	1909.3	2132.6	2131.0	2346.5	2341.9	2022.5
32.5°	1749.6	1744.2	1752.7	1793.0	1844.2	1980.6	2204.6	2250.4	2436.4	2465.9	2081.4
35°	1758.9	1781.4	1801.5	1855.8	1928.7	2096.1	2340.3	2378.3	2540.3	2632.6	2193.8
37.5°	1817.8	1826.4	1873.6	1969.8	2036.4	2250.4	2426.4	2450.4	2634.9	2739.5	2312.4
40°	1880.6	1890.7	1962.0	2062.8	2154.3	2351.2	2507.0	2514.7	2665.1	2821.7	2389.9
42.5°	1965.9	1975.2	2045.7	2172.1	2294.6	2437.2	2578.3	2586.8	2662.8	2916.3	2513.2
45°	2054.3	2076.7	2159.7	2303.1	2413.2	2538.0	2594.6	2629.5	2684.5	3000.8	2613.2
47.5°	2178.3	2199.2	2267.4	2407.7	2536.4	2626.4	2669.8	2703.9	2736.4	3074.4	2677.5
50°	2310.1	2313.9	2396.9	2524.0	2618.6	2726.4	2810.1	2821.7	2804.6	3159.7	2786.8
52.5°	2407.0	2419.4	2483.7	2607.7	2748.8	2881.4	2996.1	3008.5	2975.2	3191.5	2824.0
55°	2246.5	2239.5	2344.2	2509.3	2836.4	3112.4	3279.1	3288.4	3099.2	3289.9	2945.7
57.5°	1736.4	1769.8	1858.9	2058.1	2520.1	3214.7	3497.7	3464.3	3248.1	3339.5	3023.2
60°	1262.0	1254.3	1314.0	1447.3	1899.2	2770.5	3307.0	3341.1	3126.3	3010.1	2493.0
62.5°	1027.9	1017.1	1021.7	1026.4	1225.6	1838.8	2448.1	2447.3	2407.7	2163.6	1681.4
65°	821.7	847.3	849.6	884.5	910.1	1098.4	1418.6	1494.6	1301.5	1067.4	774.4
67.5°	619.4	610.1	641.1	765.1	813.2	793.0	774.4	782.9	556.6	401.5	378.3
70°	365.1	361.2	398.4	533.3	669.8	630.2	583.7	584.5	382.2	280.6	312.4
72.5°	200.0	199.2	207.0	270.5	380.6	395.3	350.4	361.2	227.9	227.1	244.2
75°	111.6	109.3	107.0	119.4	137.2	145.0	148.1	149.6	156.6	175.2	182.2
77.5°	41.1	39.5	39.5	45.7	58.1	72.9	92.2	93.8	110.9	127.1	134.1
80°	14.0	15.5	20.9	28.7	38.8	51.9	62.8	64.3	78.3	89.1	91.5
82.5°	8.5	9.3	14.0	20.2	27.9	36.4	46.5	47.3	58.1	65.1	68.2
85°	3.9	4.7	7.8	12.4	17.8	24.0	24.8	24.8	24.0	24.8	23.3
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°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2323.3	2314.7	2288.4	2265.1	2258.1	2227.1	2181.4	2186.8	2153.5	2169.0	2152.7
5°	2291.5	2262.8	2195.3	2166.7	2091.5	2057.4	2034.1	1976.0	1948.8	1943.4	1920.2
7.5°	2210.1	2192.2	2107.7	2030.2	1950.4	1882.2	1794.6	1734.9	1692.2	1680.6	1646.5
10°	2145.7	2106.2	1989.1	1871.3	1757.4	1638.8	1524.8	1435.7	1392.2	1341.9	1324.8
12.5°	2082.2	2022.5	1864.3	1713.2	1565.9	1416.3	1278.3	1169.8	1075.2	1052.7	1045.0
15°	2042.6	1938.8	1752.7	1570.5	1361.2	1165.9	1027.9	956.6	898.4	874.4	891.5
17.5°	1990.7	1869.8	1645.7	1403.1	1172.9	993.0	877.5	833.3	812.4	814.7	807.8
20°	1925.6	1804.6	1505.4	1251.2	1004.6	861.2	795.3	779.1	782.2	787.6	785.3
22.5°	1879.1	1725.6	1403.9	1096.1	868.2	788.4	761.2	749.6	759.7	764.3	760.5
25°	1843.4	1658.1	1280.6	958.9	789.1	747.3	734.9	734.1	749.6	755.8	751.9
27.5°	1810.8	1595.3	1158.1	854.3	736.4	715.5	711.6	720.9	731.0	737.2	742.6
30°	1791.5	1547.3	1043.4	766.7	710.1	700.0	693.0	701.5	707.0	713.2	710.1
32.5°	1810.1	1513.2	932.6	717.1	688.4	678.3	687.6	682.2	691.5	696.9	688.4
35°	1868.2	1482.9	853.5	690.7	663.6	667.4	669.0	666.7	670.5	665.9	676.0
37.5°	1925.6	1472.1	780.6	668.2	651.9	651.9	650.4	645.7	653.5	651.9	656.6
40°	1998.4	1479.1	718.6	644.2	641.1	639.5	633.3	632.6	629.5	630.2	631.8
42.5°	2062.0	1494.6	682.9	628.7	631.0	634.1	622.5	613.2	617.1	609.3	609.3
45°	2129.5	1508.5	651.2	617.8	615.5	614.7	605.4	600.0	596.9	597.7	604.6
47.5°	2235.7	1528.7	627.1	603.1	604.6	593.0	590.7	583.7	586.8	591.5	592.2
50°	2310.8	1571.3	608.5	586.0	591.5	583.7	569.8	566.7	566.7	574.4	572.9
52.5°	2363.6	1631.0	590.7	567.4	569.8	563.6	558.9	551.9	547.3	558.1	563.6
55°	2524.8	1730.2	586.0	551.9	551.2	545.0	536.4	529.5	527.1	528.7	539.5
57.5°	2509.3	1699.2	571.3	524.8	523.3	514.7	506.2	503.9	503.1	504.6	507.8
60°	2037.2	1255.0	510.1	493.8	491.5	489.9	481.4	472.1	467.4	472.1	468.2
62.5°	1348.1	840.3	449.6	456.6	458.1	454.3	440.3	431.0	432.6	438.0	429.5
65°	662.0	493.8	407.8	426.4	427.9	417.1	403.9	393.0	387.6	392.2	388.4
67.5°	378.3	377.5	373.6	393.0	392.2	381.4	360.5	351.2	341.9	343.4	341.1
70°	320.9	327.1	334.9	346.5	345.7	333.3	308.5	301.5	288.4	286.8	282.9
72.5°	252.7	263.6	280.6	289.1	282.2	266.7	250.4	238.8	227.1	220.2	222.5
75°	187.6	203.1	212.4	217.8	207.0	198.4	185.3	171.3	157.4	151.2	148.8
77.5°	136.4	141.1	149.6	153.5	146.5	138.0	130.2	116.3	103.1	94.6	92.2
80°	95.3	98.4	104.7	104.7	104.7	100.8	90.7	76.7	68.2	60.5	58.9
82.5°	66.7	69.8	76.0	72.9	72.1	67.4	61.2	50.4	41.1	35.7	34.1
85°	23.3	25.6	31.0	37.2	39.5	38.8	34.9	27.9	21.7	17.8	16.3
87.5°	5.4	5.4	6.2	5.4	5.4	6.2	5.4	5.4	5.4	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)