

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: P526802

Luminaire Tested: **GALN-SA1D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6181 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

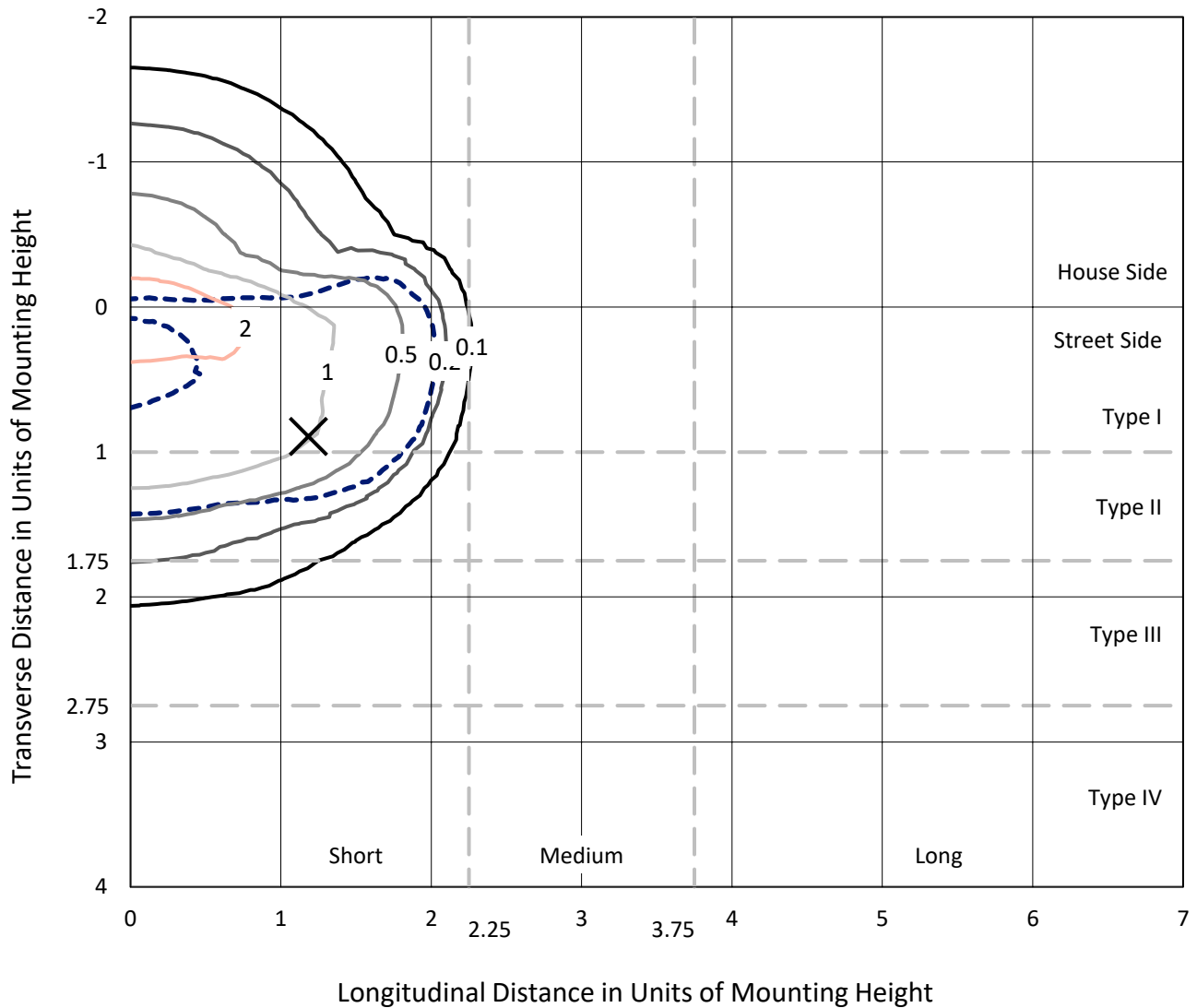
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

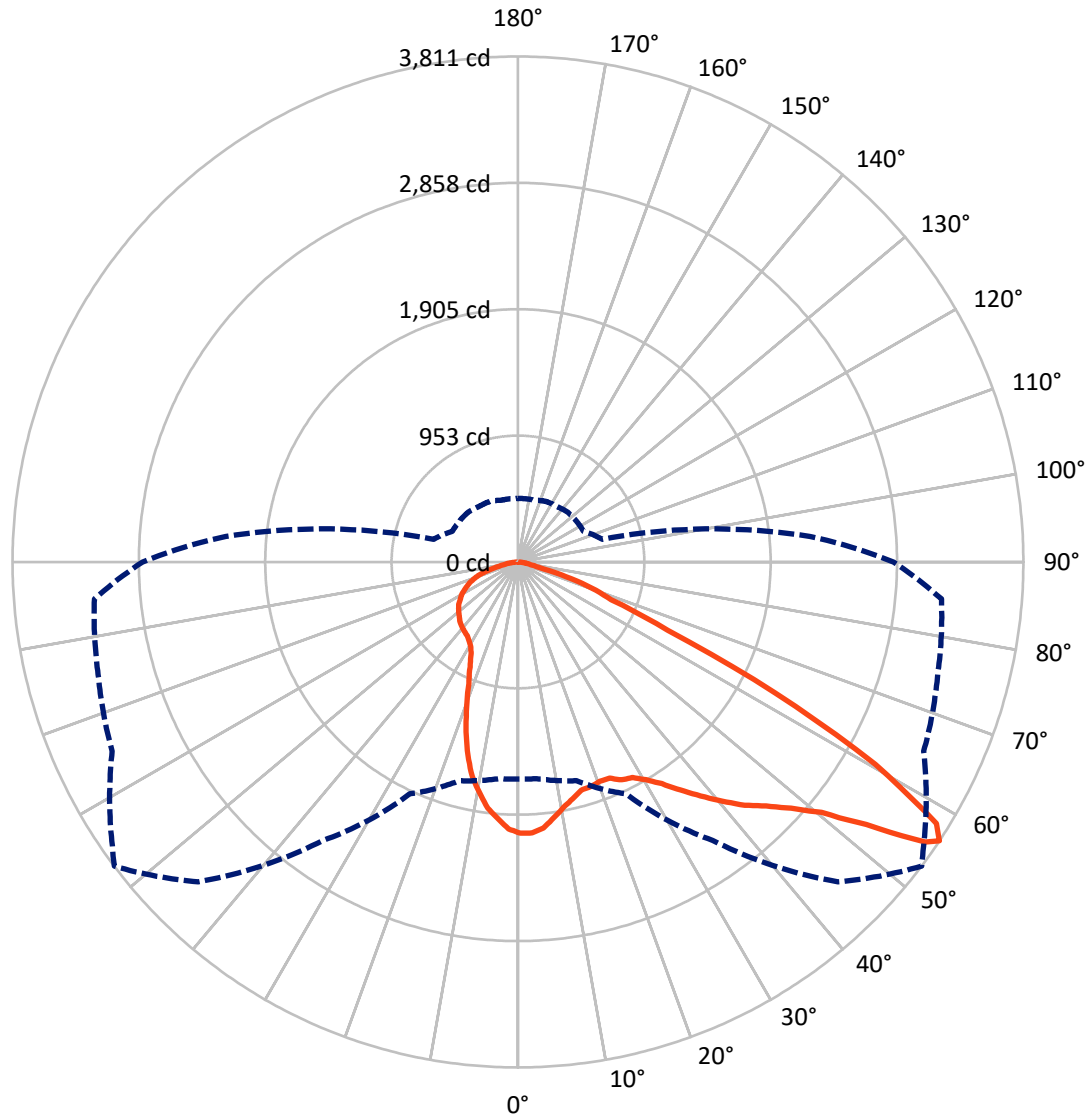
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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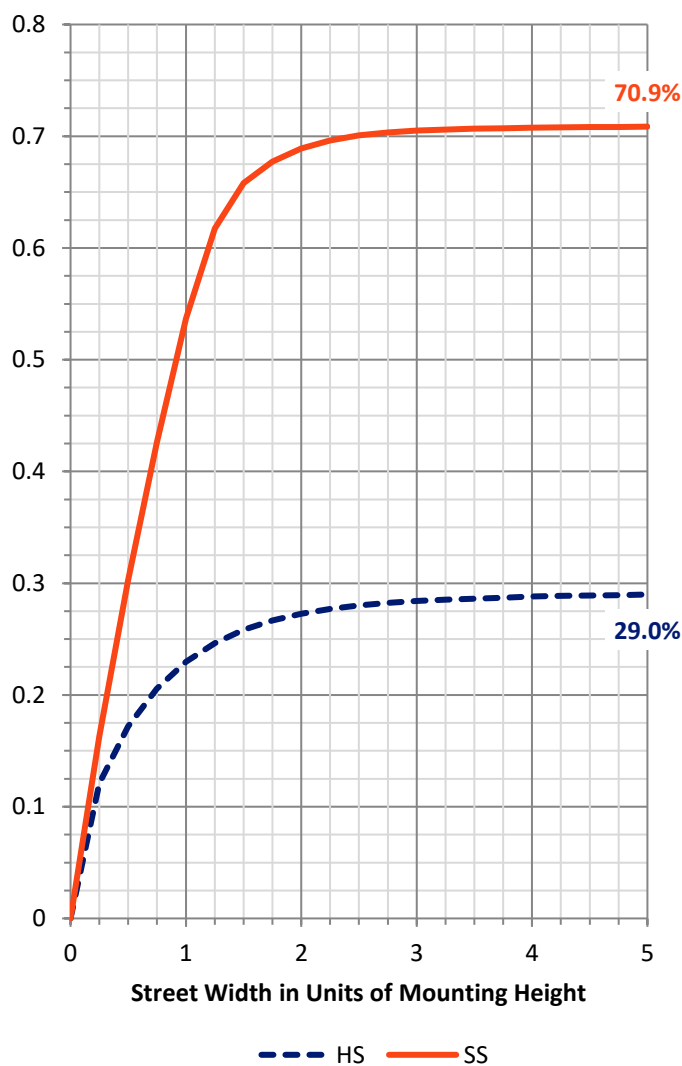
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1803.7	0.0	1803.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4377.2	0.0	4377.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	6181.0	0.0	6181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.9
10°-20°	452.1	7.3
20°-30°	666.7	10.8
30°-40°	952.6	15.4
40°-50°	1311.2	21.2
50°-60°	1549.4	25.1
60°-70°	825.7	13.4
70°-80°	209.5	3.4
80°-90°	32.7	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°	6181.0	100.0
0°-180°	6181.0	100.0

Coefficient of Utilization



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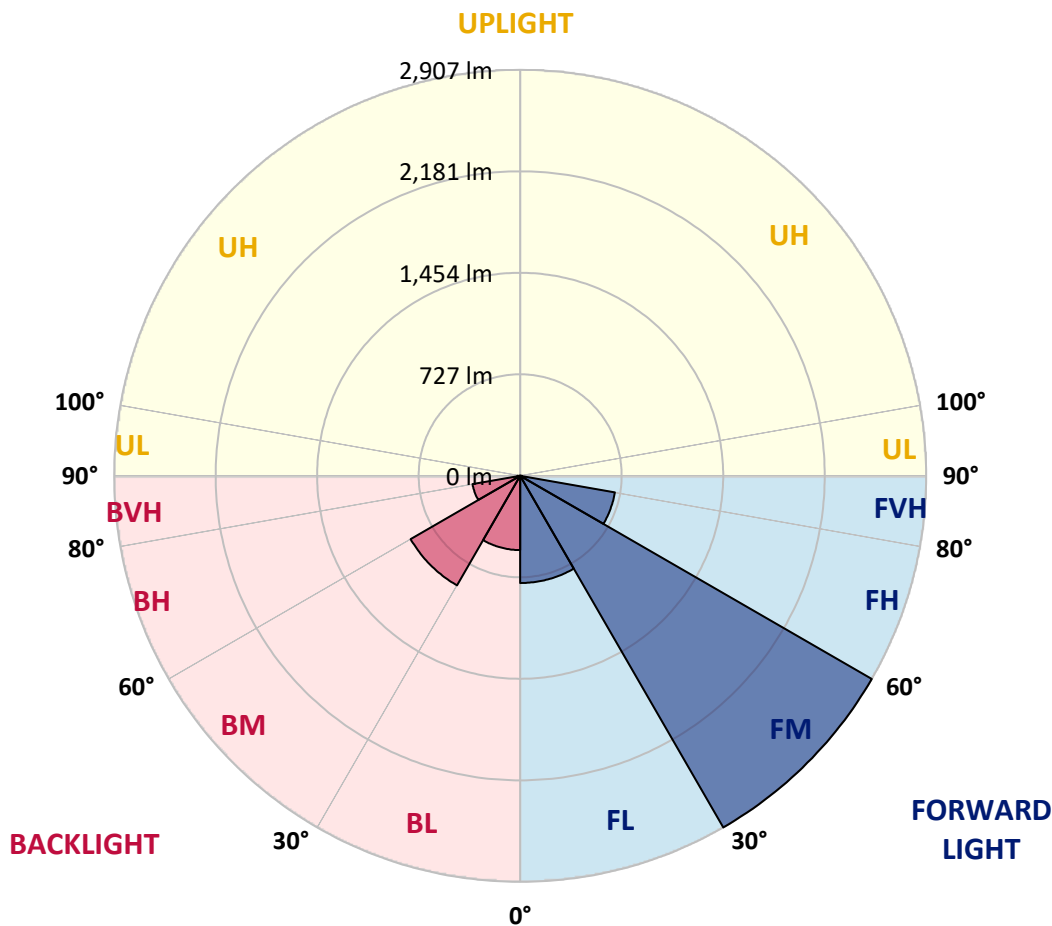
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.9	12.4			
FM (30°-60°)	2907.4	47.0			
FH (60°-80°)	688.8	11.1			G1/1800
FVH (80°-90°)	13.1	0.2			G1/100
BL (0°-30°)	532.0	8.6	B2/1000		
BM (30°-60°)	905.8	14.7	B1/1000		
BH (60°-80°)	346.4	5.6	B1/500		G1/500
BVH (80°-90°)	19.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9
2.5°	2019.5	2002.1	2012.4	2008.4	2041.0	2050.5	2045.7	2049.7	2067.9	2059.2	2041.0
5°	1887.1	1911.7	1916.5	1928.4	1947.4	1984.7	2014.0	2021.9	2030.6	2071.1	2067.1
7.5°	1766.6	1783.3	1774.5	1809.4	1850.7	1910.9	1946.6	1952.9	2033.0	2055.2	2071.9
10°	1690.5	1673.8	1713.5	1723.0	1769.8	1838.8	1881.6	1907.7	1980.7	2068.7	2079.0
12.5°	1619.9	1614.4	1638.2	1665.1	1717.4	1788.8	1832.4	1842.7	1955.3	2048.1	2096.5
15°	1567.6	1561.2	1585.0	1604.9	1665.9	1729.3	1784.8	1814.2	1927.6	2036.2	2081.4
17.5°	1526.4	1525.6	1539.0	1574.7	1637.4	1690.5	1780.1	1781.7	1913.3	2054.4	2094.1
20°	1524.0	1523.2	1525.6	1565.2	1622.3	1687.3	1765.0	1779.3	1913.3	2041.7	2094.9
22.5°	1543.8	1531.1	1545.4	1570.8	1612.0	1692.9	1770.6	1802.3	1959.3	2104.4	2130.6
25°	1575.5	1578.7	1586.6	1595.3	1619.1	1705.6	1819.7	1845.9	2013.2	2158.3	2179.7
27.5°	1633.4	1631.8	1635.0	1639.7	1660.4	1717.4	1839.6	1907.0	2125.8	2254.2	2232.8
30°	1718.2	1712.7	1725.4	1742.0	1723.0	1755.5	1905.4	1956.1	2230.5	2351.0	2292.3
32.5°	1795.2	1815.8	1839.6	1846.7	1823.7	1830.0	1992.6	2044.1	2317.7	2469.9	2365.3
35°	1891.1	1907.7	1939.5	1961.7	1957.7	1938.7	2111.5	2179.7	2443.8	2557.1	2442.2
37.5°	1984.7	2004.5	2056.8	2122.6	2086.1	2077.4	2238.4	2294.7	2482.6	2603.9	2498.5
40°	2135.3	2134.5	2224.9	2259.0	2291.5	2276.4	2370.0	2389.0	2503.2	2593.6	2500.0
42.5°	2312.1	2301.0	2393.0	2446.1	2488.2	2489.7	2507.2	2500.8	2512.7	2541.3	2483.4
45°	2480.2	2504.0	2596.8	2691.9	2734.0	2738.7	2623.0	2611.1	2529.4	2526.2	2451.7
47.5°	2685.6	2691.1	2767.3	2892.5	2990.1	2956.8	2772.8	2746.6	2602.3	2626.9	2504.8
50°	2697.5	2738.7	2806.9	2954.4	3254.1	3245.4	2967.1	2917.9	2719.7	2769.6	2653.1
52.5°	2448.5	2439.0	2519.9	2760.9	3234.3	3532.4	3289.0	3171.6	2971.8	2933.8	2893.3
55°	1865.7	1887.9	1959.3	2202.7	2808.5	3536.4	3727.5	3631.5	3241.4	3176.4	3129.6
56°	1636.6	1639.7	1707.1	1929.2	2562.7	3410.3	3810.7	3733.0	3375.4	3276.3	3204.9
57.5°	1356.7	1338.4	1373.3	1494.6	2163.1	3143.9	3719.5	3795.7	3532.4	3384.1	3285.0
60°	1068.1	1064.1	1049.8	1072.0	1367.0	2368.4	3096.3	3267.6	3516.6	3282.7	3146.3
62.5°	872.2	852.4	880.9	912.6	949.9	1469.3	2175.7	2276.4	2791.8	2620.6	2363.7
65°	676.4	666.8	702.5	805.6	827.8	933.3	1239.3	1317.0	1648.5	1619.1	1425.7
67.5°	465.4	467.0	497.9	654.9	767.5	758.0	758.8	799.3	860.3	639.1	556.6
70°	295.0	294.2	310.8	421.8	617.7	624.0	592.3	580.4	550.3	333.0	352.8
72.5°	189.5	184.0	192.7	233.1	319.5	369.5	380.6	387.7	318.8	261.7	283.9
75°	107.0	101.5	98.3	108.6	126.1	145.9	160.2	164.9	184.7	198.2	210.1
77.5°	32.5	29.3	35.7	47.6	62.6	84.0	102.3	105.5	124.5	140.3	152.2
80°	14.3	15.9	22.2	31.7	44.4	59.5	72.2	76.9	89.6	101.5	104.7
82.5°	8.7	9.5	15.1	21.4	30.9	42.0	51.5	53.1	65.8	75.3	77.7
85°	3.2	4.0	7.9	12.7	19.8	27.0	27.0	29.3	27.0	27.0	29.3
87.5°	0.0	0.0	0.8	1.6	1.6	2.4	3.2	3.2	4.0	4.8	5.6
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°	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9
2.5°	2050.5	2046.5	2040.2	2017.2	2014.8	2007.7	1968.0	1961.7	1968.0	1949.0	1950.6
5°	2046.5	2058.4	2010.8	1987.8	1945.0	1914.1	1878.4	1860.2	1827.7	1807.0	1830.0
7.5°	2063.9	2059.2	1999.7	1949.8	1885.5	1807.0	1744.4	1708.7	1651.6	1635.8	1647.7
10°	2057.6	2032.2	1962.5	1896.6	1775.3	1706.3	1604.9	1506.5	1452.6	1424.9	1420.9
12.5°	2048.9	2041.7	1925.2	1811.8	1684.1	1539.0	1396.3	1303.5	1215.5	1177.5	1183.0
15°	2059.2	1998.9	1855.4	1711.9	1542.2	1351.9	1198.1	1078.4	1017.3	992.7	992.7
17.5°	2054.4	1978.3	1822.1	1600.1	1385.2	1160.0	991.1	919.0	893.6	893.6	900.7
20°	2056.8	1991.8	1754.7	1488.3	1199.7	976.9	854.0	827.8	838.9	842.9	846.8
22.5°	2070.3	1947.4	1688.9	1365.4	1027.6	835.7	775.5	776.3	796.1	817.5	813.5
25°	2086.9	1929.9	1608.8	1243.3	896.0	766.7	747.7	745.3	760.4	771.5	773.1
27.5°	2072.7	1899.8	1527.1	1091.0	788.2	720.8	716.8	718.4	723.1	745.3	738.2
30°	2119.5	1908.5	1424.9	963.4	728.7	705.7	700.9	698.6	705.7	712.0	706.5
32.5°	2177.3	1877.6	1348.7	840.5	699.3	694.6	685.1	681.9	685.9	679.5	682.7
35°	2202.7	1872.1	1249.6	752.5	676.4	672.4	666.8	666.0	666.8	661.3	656.5
37.5°	2217.0	1898.2	1136.2	712.0	662.1	666.0	653.4	651.8	637.5	640.7	643.1
40°	2241.6	1857.8	1044.3	673.2	653.4	645.4	634.3	632.0	622.4	616.9	622.4
42.5°	2205.9	1845.9	953.9	656.5	640.7	632.0	624.0	610.5	607.4	602.6	599.4
45°	2177.3	1777.7	873.0	635.9	625.6	620.8	605.8	591.5	579.6	584.4	577.2
47.5°	2198.7	1753.9	792.9	618.5	605.0	599.4	584.4	573.3	561.4	555.8	554.2
50°	2284.4	1798.3	725.5	605.8	587.5	584.4	564.6	551.9	540.8	536.8	538.4
52.5°	2488.9	1919.6	679.5	579.6	570.9	556.6	545.5	529.7	522.5	509.8	517.8
55°	2748.2	2117.1	667.6	555.0	550.3	537.6	522.5	510.6	497.2	486.8	484.5
56°	2831.5	2211.4	658.1	545.5	537.6	530.5	510.6	503.5	482.1	479.7	478.1
57.5°	2898.9	2294.7	659.7	527.3	519.4	513.0	501.1	483.7	469.4	460.7	464.6
60°	2746.6	2148.0	629.6	499.5	497.9	486.1	469.4	461.5	444.0	433.7	431.3
62.5°	2041.7	1458.2	510.6	463.9	463.1	450.4	431.3	422.6	419.5	405.2	405.2
65°	1175.9	914.2	441.7	434.5	428.2	415.5	396.5	389.3	381.4	376.6	372.7
67.5°	501.9	474.2	401.2	400.4	393.3	377.4	358.4	347.3	337.0	327.5	332.2
70°	363.9	369.5	362.4	358.4	349.7	329.9	313.2	299.7	283.9	277.5	282.3
72.5°	288.6	300.5	310.8	311.6	301.3	278.3	260.1	241.8	224.4	215.7	219.6
75°	218.8	226.8	237.1	239.5	224.4	208.5	191.1	172.1	158.6	148.3	149.9
77.5°	157.8	156.2	165.7	164.1	157.0	145.9	130.0	112.6	97.5	88.0	88.8
80°	107.8	110.2	115.8	115.0	106.3	99.1	87.2	72.9	61.8	53.9	52.3
82.5°	75.3	79.3	84.0	80.1	72.9	65.8	57.1	46.8	38.1	31.7	30.1
85°	27.0	30.9	35.7	38.1	40.4	38.9	32.5	26.2	19.0	15.9	15.1
87.5°	5.6	6.3	7.1	7.1	7.1	6.3	5.6	5.6	4.8	2.4	2.4
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)