

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: P194121

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16153 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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: 25 FT

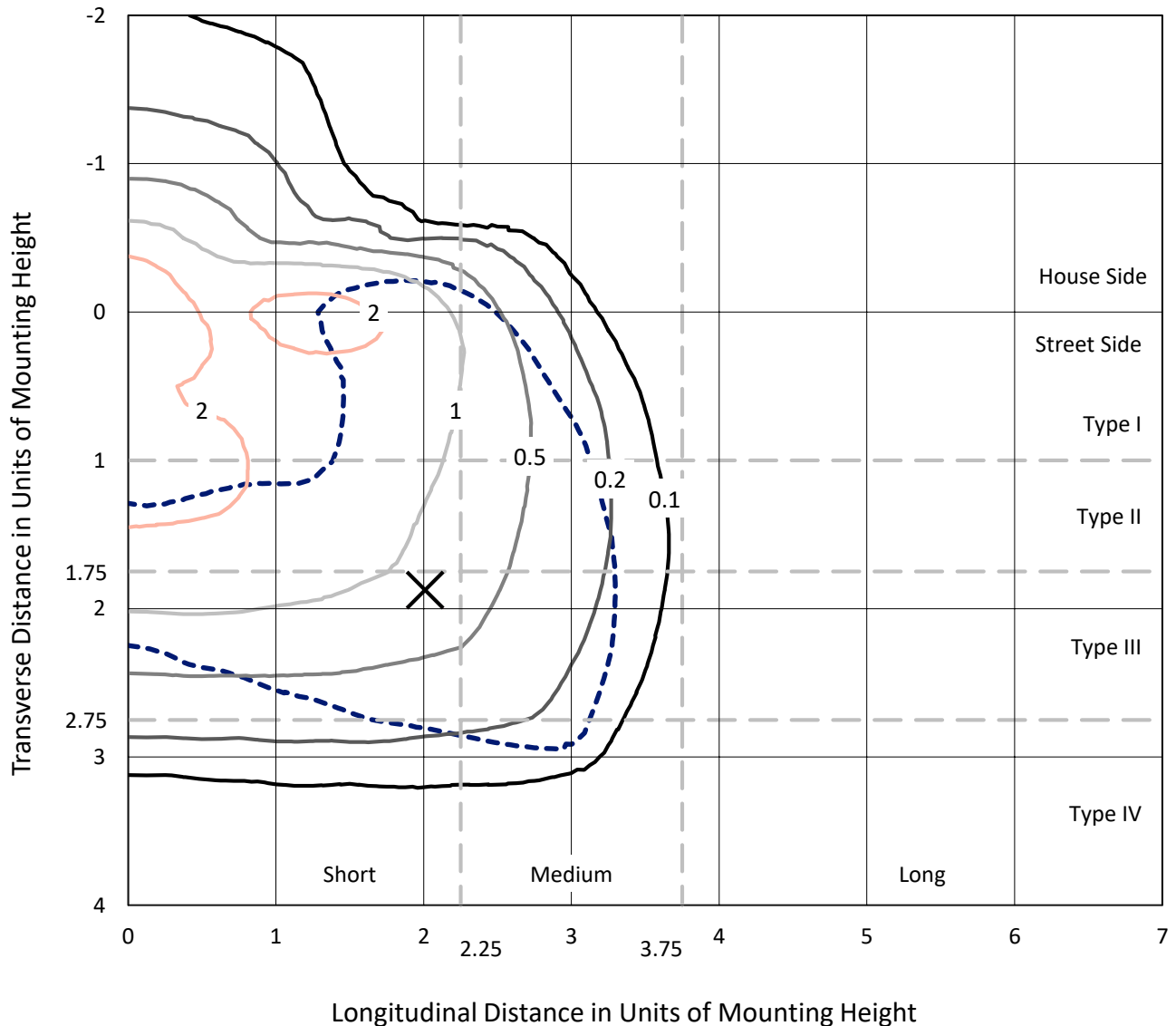


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

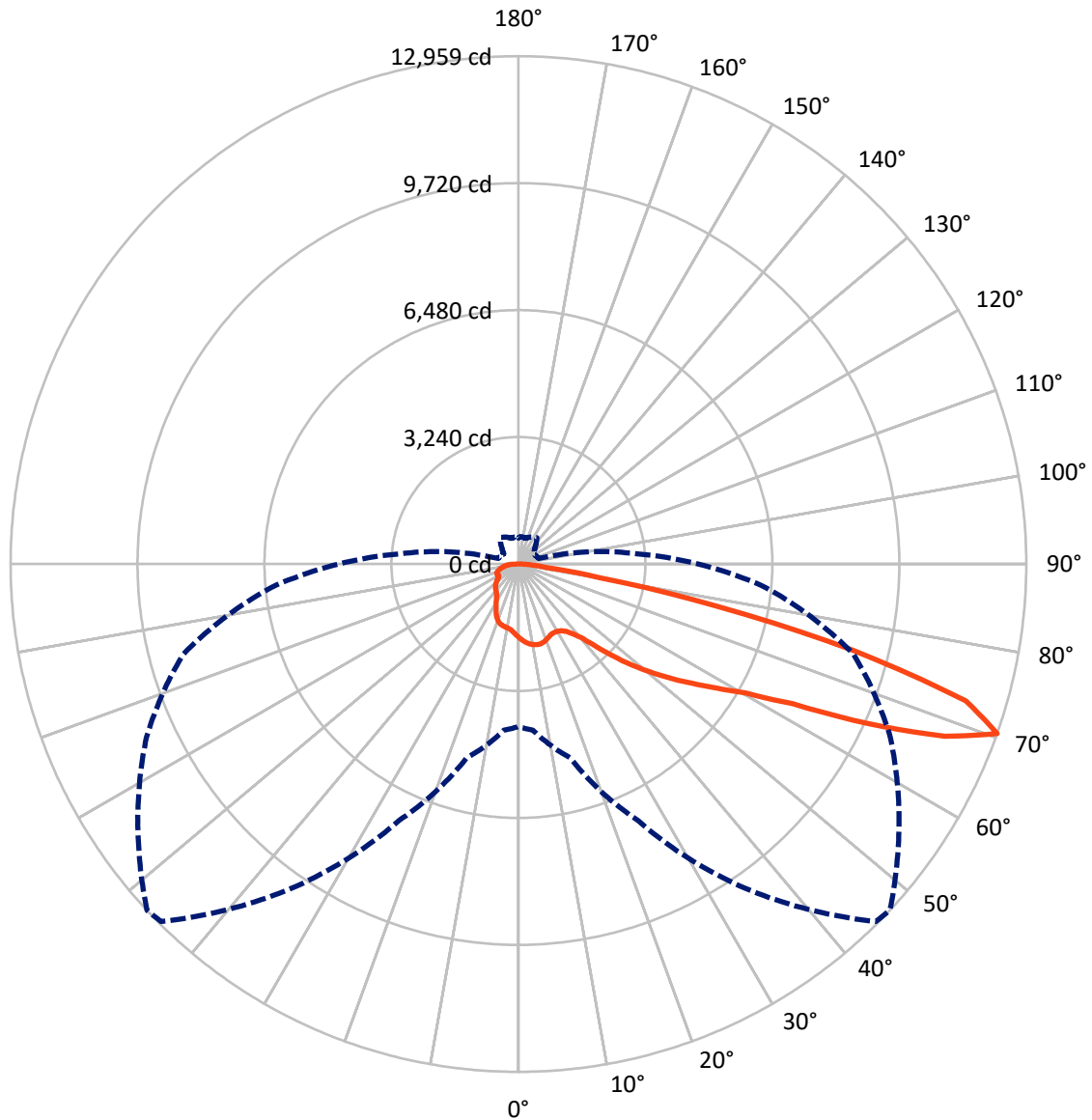


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3369.8	0.0	3369.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12783.2	0.0	12783.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	16153.0	0.0	16153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.1
10°-20°	526.9	3.3
20°-30°	778.0	4.8
30°-40°	1130.8	7.0
40°-50°	2035.1	12.6
50°-60°	3525.6	21.8
60°-70°	5032.1	31.2
70°-80°	2583.2	16.0
80°-90°	361.7	2.2
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°	16153.0	100.0
0°-180°	16153.0	100.0

Coefficient of Utilization



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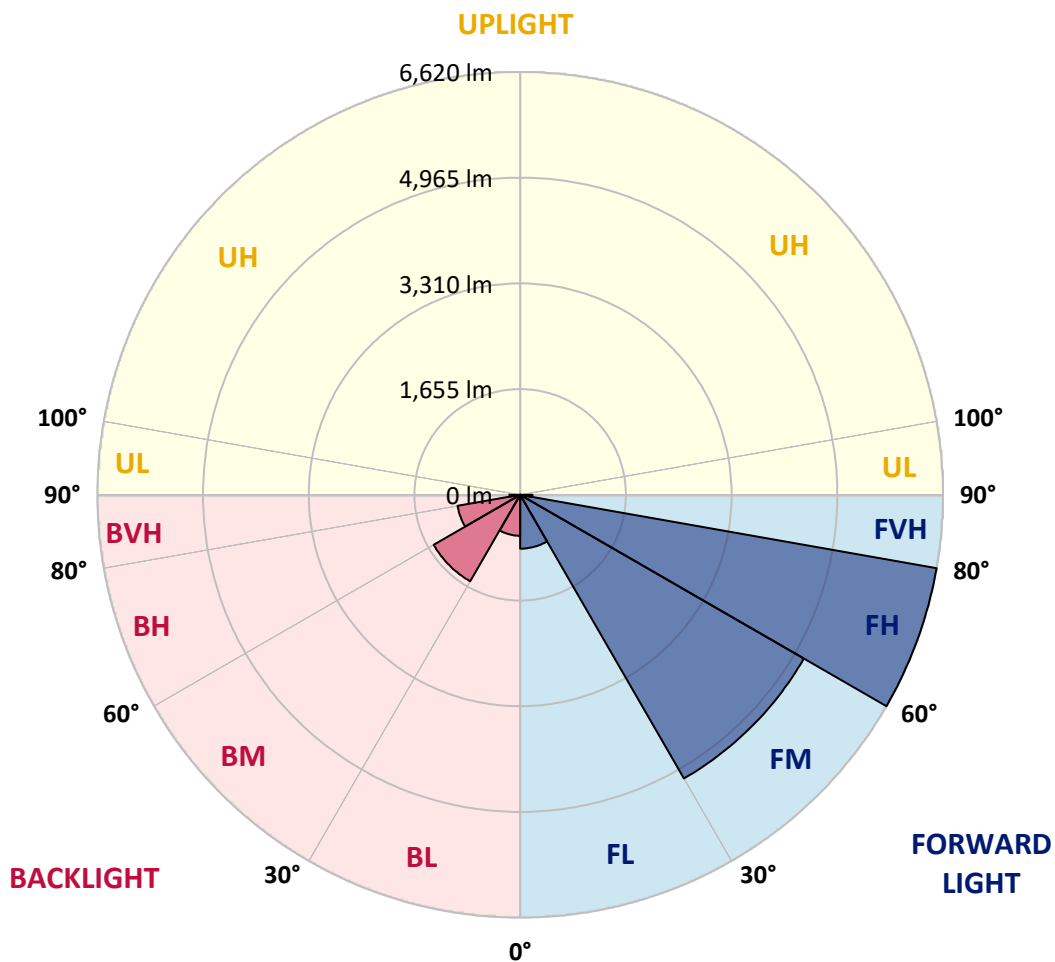
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.8	5.2			
FM (30°-60°)	5127.4	31.7			
FH (60°-80°)	6619.9	41.0			G3/7500
FVH (80°-90°)	193.0	1.2			G2/225
BL (0°-30°)	641.6	4.0	B2/1000		
BM (30°-60°)	1564.2	9.7	B2/2500		
BH (60°-80°)	995.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	168.7	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1984.3	1980.3	1978.8	1975.6	1971.7	1952.0	1948.1	1934.0	1914.3	1893.9	1872.7
5°	2114.7	2113.9	2105.3	2089.6	2064.4	2021.2	2011.0	1976.4	1930.0	1885.3	1840.5
7.5°	2229.5	2222.4	2205.9	2174.4	2130.4	2071.5	2057.4	2009.4	1945.8	1884.5	1824.0
10°	2313.5	2309.6	2273.5	2230.2	2172.9	2107.6	2091.1	2037.7	1967.8	1890.0	1814.5
12.5°	2361.5	2353.6	2312.0	2260.1	2191.7	2128.1	2111.6	2057.4	1978.8	1890.0	1801.2
15°	2358.3	2352.8	2311.2	2254.6	2185.4	2129.7	2114.7	2060.5	1976.4	1882.1	1783.9
17.5°	2295.5	2297.8	2262.5	2206.7	2150.1	2107.6	2094.3	2044.0	1960.7	1866.4	1763.4
20°	2185.4	2196.4	2172.9	2123.4	2091.9	2062.9	2054.2	2011.8	1936.3	1843.6	1741.4
22.5°	2075.4	2085.6	2076.2	2034.6	2029.8	2012.6	2007.8	1977.2	1915.1	1829.5	1728.1
25°	1994.5	2003.9	2002.3	1966.2	1980.3	1979.6	1975.6	1960.7	1910.4	1829.5	1730.4
27.5°	1972.5	1975.6	1972.5	1939.5	1959.1	1974.8	1971.7	1969.3	1924.5	1852.2	1760.3
30°	2047.9	2043.2	2018.8	1952.0	1970.1	1992.1	1989.0	1990.6	1967.0	1912.0	1827.1
32.5°	2348.9	2327.7	2250.7	2062.9	2014.9	2026.7	2028.3	2054.2	2058.1	2003.9	1930.8
35°	2799.2	2775.6	2675.8	2359.9	2154.0	2113.1	2113.1	2152.4	2176.0	2135.9	2091.9
37.5°	3276.2	3250.3	3196.8	2771.7	2446.3	2263.2	2259.3	2286.8	2320.6	2330.0	2341.0
40°	3818.4	3790.9	3805.9	3233.8	2854.2	2523.4	2467.6	2447.9	2539.1	2599.6	2687.6
42.5°	4411.8	4399.2	4404.7	3748.5	3318.6	2912.4	2833.0	2731.6	2841.6	2949.3	3134.0
45°	4961.1	4972.1	4966.6	4299.4	3835.7	3387.0	3302.9	3106.5	3214.1	3398.8	3699.8
47.5°	5442.0	5396.4	5467.2	4901.3	4414.9	3918.2	3814.5	3551.3	3660.5	3888.4	4397.6
50°	6025.9	6019.6	5915.9	5704.5	5115.1	4451.8	4315.9	4011.0	4180.7	4497.4	5277.0
52.5°	6639.6	6525.7	6430.6	6329.2	5857.7	4998.8	4832.2	4469.1	4792.1	5190.5	6348.9
55°	6765.4	6714.3	6832.2	7002.7	6573.6	5567.0	5372.9	5043.6	5480.5	5982.7	7585.0
57.5°	7034.1	7033.4	7277.0	7581.1	7310.8	6169.7	5974.0	5737.5	6254.6	6890.3	8897.4
60°	7215.7	7266.7	7719.4	8309.6	8034.5	6866.0	6686.0	6538.3	7134.7	7904.9	10120.2
62.5°	7310.8	7379.9	7997.6	8605.1	9057.7	8025.1	7845.1	7632.2	8299.4	9017.6	10835.3
65°	6915.5	7051.4	7954.4	8860.5	9953.6	9904.1	9823.1	9449.1	9755.5	9897.0	10576.7
67.5°	5821.6	5960.7	7012.1	8622.3	10593.3	11716.2	11733.5	11094.6	10651.4	9972.4	8892.7
70°	4147.7	4256.9	5126.9	7229.0	10106.0	12900.5	12959.4	11853.0	10473.0	8843.9	6212.9
72.5°	1969.3	2036.1	2859.7	4704.9	8019.6	11820.0	11933.9	10884.8	8905.2	6547.7	3389.4
75°	723.8	744.2	966.6	2001.6	4651.4	8716.6	8851.0	7802.7	5903.3	3259.7	1291.2
77.5°	433.8	447.1	542.2	844.8	1829.5	4982.3	5181.1	4243.6	2579.9	1213.4	635.0
80°	303.3	312.8	389.0	525.7	864.4	1898.6	2075.4	1732.0	1027.9	767.8	462.1
82.5°	205.1	209.8	273.5	355.2	574.5	678.2	731.6	770.1	693.1	571.3	293.1
85°	134.4	139.1	185.5	234.2	365.4	350.5	358.3	453.4	506.1	388.2	162.7
87.5°	77.0	80.2	111.6	125.0	179.2	148.5	150.1	238.9	323.8	261.7	99.0
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°	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1867.2	1857.0	1834.2	1820.0	1806.7	1803.5	1798.0	1797.2	1796.5	1796.5	1794.1
5°	1825.5	1808.2	1772.9	1753.2	1736.7	1735.2	1734.4	1738.3	1739.9	1741.4	1739.1
7.5°	1798.8	1775.2	1731.2	1702.9	1683.3	1678.6	1686.4	1704.5	1716.3	1721.0	1718.7
10°	1782.3	1753.2	1702.1	1671.5	1655.0	1652.6	1662.9	1684.1	1708.4	1717.9	1717.1
12.5°	1763.4	1730.4	1676.2	1644.0	1634.6	1639.3	1652.6	1672.3	1697.4	1712.4	1713.2
15°	1744.6	1706.1	1650.3	1622.0	1618.1	1624.4	1636.9	1651.9	1671.5	1686.4	1688.0
17.5°	1721.8	1681.7	1625.9	1596.8	1593.7	1596.8	1597.6	1605.5	1618.1	1632.2	1636.1
20°	1697.4	1656.6	1598.4	1569.3	1555.2	1542.6	1528.5	1530.0	1534.0	1548.1	1551.3
22.5°	1680.1	1639.3	1577.2	1537.1	1499.4	1461.7	1433.4	1429.5	1431.0	1442.8	1446.7
25°	1681.7	1638.5	1571.7	1502.5	1420.0	1359.5	1321.8	1315.5	1314.7	1323.4	1328.9
27.5°	1712.4	1669.1	1592.1	1467.2	1333.6	1244.0	1203.9	1199.2	1192.9	1195.3	1201.6
30°	1780.7	1740.7	1641.6	1431.0	1240.1	1130.8	1089.2	1084.5	1075.8	1071.9	1076.6
32.5°	1892.3	1859.3	1713.9	1396.5	1146.6	1034.2	991.7	981.5	976.0	971.3	975.2
35°	2077.8	2063.6	1810.6	1358.7	1064.0	959.5	921.0	905.3	897.4	906.1	912.4
37.5°	2368.6	2376.4	1937.1	1299.8	1000.4	910.0	877.8	859.7	847.9	855.0	862.1
40°	2780.3	2785.8	2077.0	1216.5	945.4	880.9	846.4	829.9	813.4	800.8	800.0
42.5°	3321.0	3265.2	2214.5	1126.1	881.7	862.9	824.4	803.9	778.8	744.2	737.1
45°	3962.3	3766.6	2319.0	1022.4	810.2	840.9	800.0	771.7	732.4	694.7	690.8
47.5°	4701.0	4304.9	2370.1	914.7	743.4	808.6	770.1	725.3	675.8	657.0	654.6
50°	5603.1	4943.8	2394.5	810.2	685.3	766.2	726.9	674.3	632.6	628.7	626.3
52.5°	6630.2	5712.3	2402.3	724.6	637.3	711.2	691.5	640.5	607.5	610.6	610.6
55°	7705.3	6506.0	2295.5	662.5	593.3	654.6	668.0	627.1	599.6	612.2	616.9
57.5°	8692.3	7209.4	1959.1	614.5	551.7	611.4	659.3	639.7	620.8	671.9	675.0
60°	9449.8	7625.1	1463.3	571.3	521.0	596.5	682.1	687.6	692.3	814.1	830.6
62.5°	9608.6	7486.8	1005.9	537.5	506.9	609.0	723.8	724.6	719.1	803.9	814.1
65°	8880.1	6612.1	731.6	518.7	495.1	631.8	759.1	742.6	706.5	770.9	752.1
67.5°	7052.2	4981.5	609.0	504.5	477.8	630.3	796.9	759.1	699.4	755.2	724.6
70°	4577.6	3012.2	542.2	492.7	457.4	600.4	818.9	757.6	679.0	702.5	666.4
72.5°	2233.4	1346.9	497.4	475.4	436.1	558.7	818.1	743.4	657.8	656.2	636.5
75°	873.9	616.9	456.6	449.5	400.0	511.6	796.1	723.0	632.6	607.5	600.4
77.5°	511.6	440.1	404.7	411.0	356.8	464.4	763.8	687.6	598.0	568.2	560.3
80°	372.5	329.3	345.0	355.2	304.9	417.3	720.6	644.4	559.5	574.5	563.5
82.5°	238.9	212.2	279.8	290.0	253.8	369.3	673.5	598.8	505.3	458.9	447.9
85°	121.8	134.4	208.3	220.8	195.7	303.3	616.1	538.3	444.0	381.9	388.2
87.5°	68.4	91.9	132.8	148.5	138.3	233.4	499.8	444.0	362.3	294.7	259.3
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)