

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: P191552

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191552
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-04-LED-E1-T4W-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16070.6 lumens
Efficiency: N/A
Efficacy: 124.6 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

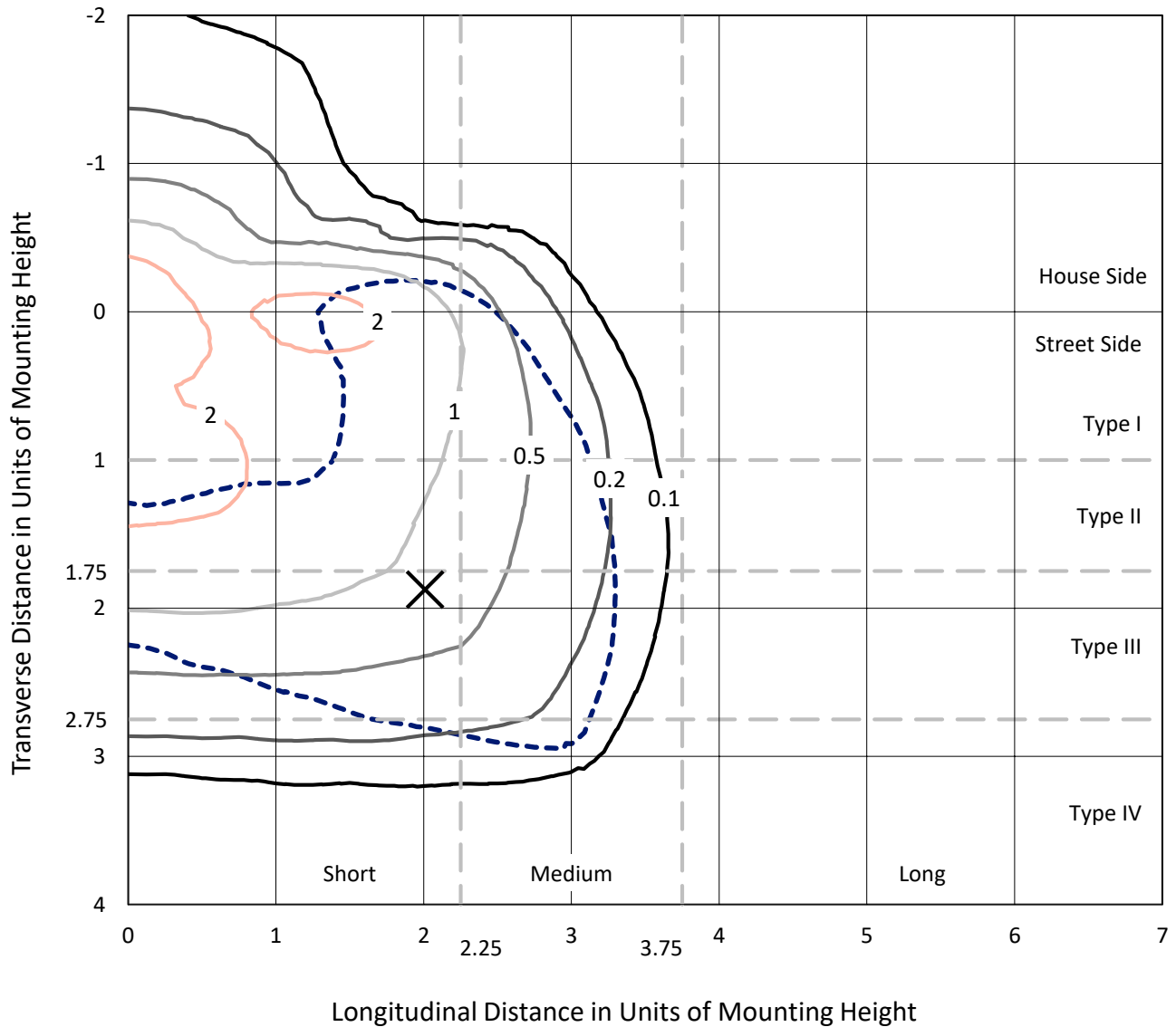
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

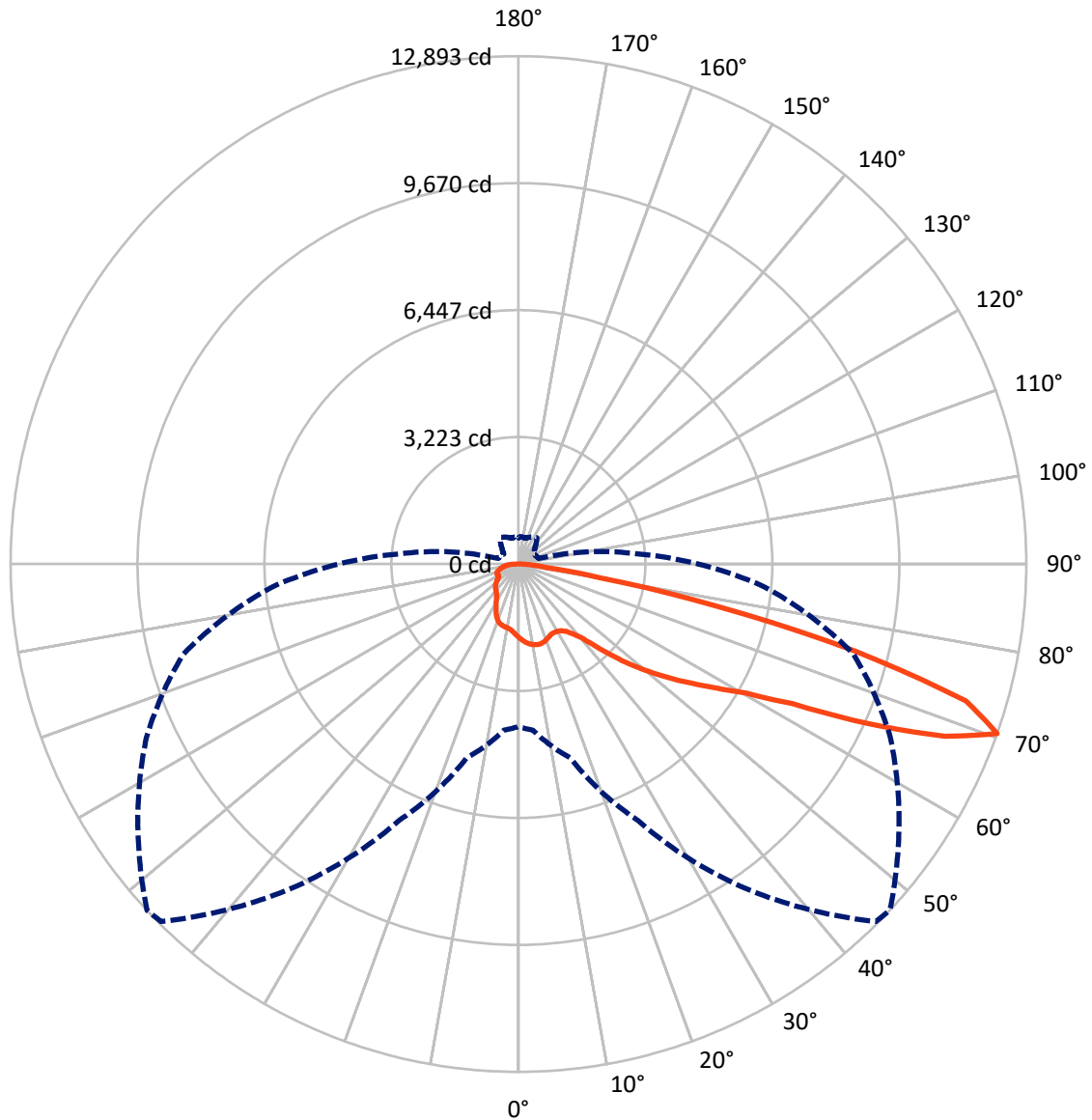
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	3352.6	0.0	3352.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12717.9	0.0	12717.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	16070.6	0.0	16070.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.1
10°-20°	524.2	3.3
20°-30°	774.1	4.8
30°-40°	1125.1	7.0
40°-50°	2024.7	12.6
50°-60°	3507.6	21.8
60°-70°	5006.4	31.2
70°-80°	2570.0	16.0
80°-90°	359.8	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°	16070.6	100.0
0°-180°	16070.6	100.0



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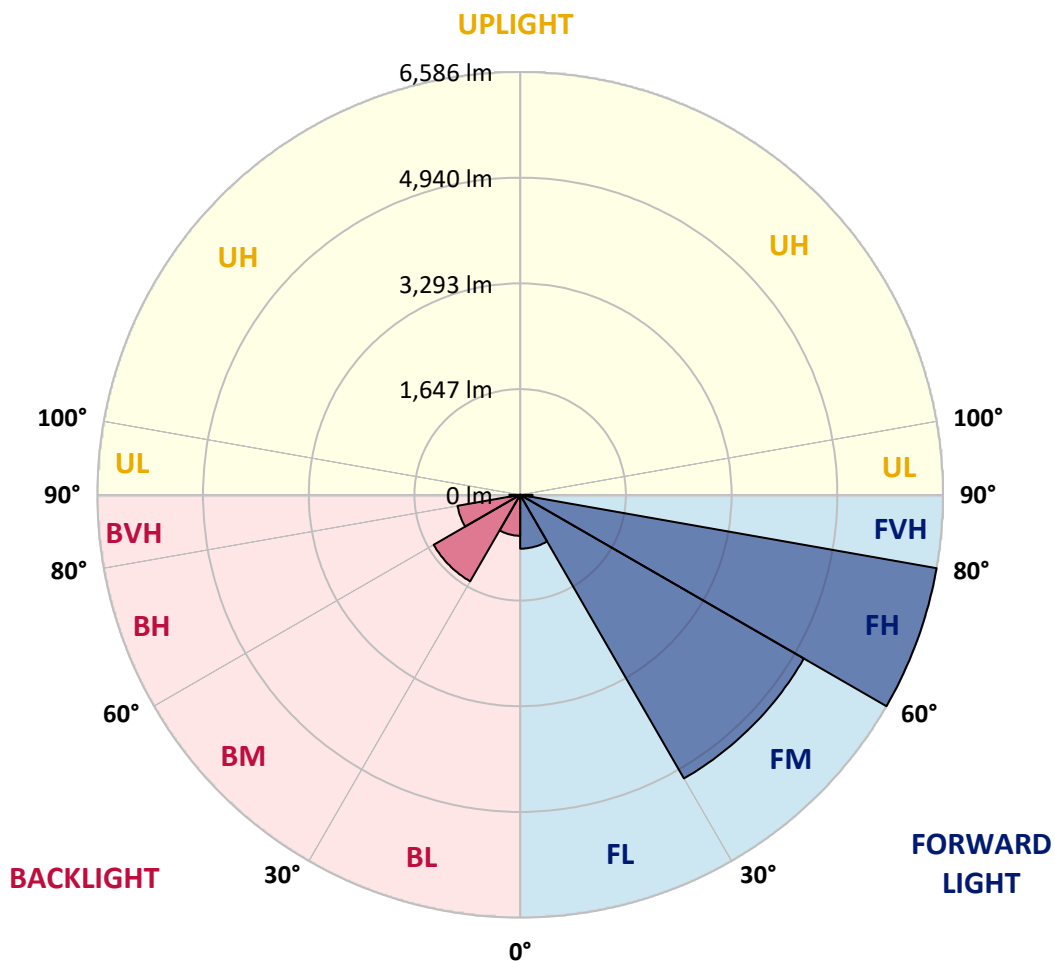
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.5	5.2			
FM	(30°-60°)	5101.3	31.7			
FH	(60°-80°)	6586.2	41.0			G3/7500
FVH	(80°-90°)	192.0	1.2			G2/225
BL	(0°-30°)	638.4	4.0	B2/1000		
BM	(30°-60°)	1556.2	9.7	B2/2500		
BH	(60°-80°)	990.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	167.8	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°	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6
2.5°	1974.2	1970.2	1968.7	1965.5	1961.6	1942.1	1938.2	1924.1	1904.5	1884.3	1863.1
5°	2103.9	2103.2	2094.6	2078.9	2053.9	2010.9	2000.7	1966.3	1920.2	1875.6	1831.1
7.5°	2218.1	2211.0	2194.6	2163.3	2119.6	2060.9	2046.8	1999.2	1935.8	1874.9	1814.6
10°	2301.7	2297.9	2261.8	2218.9	2161.8	2096.8	2080.5	2027.3	1957.7	1880.3	1805.3
12.5°	2349.4	2341.6	2300.2	2248.5	2180.5	2117.2	2100.8	2046.8	1968.7	1880.3	1792.0
15°	2346.3	2340.8	2299.4	2243.1	2174.3	2118.7	2103.9	2050.0	1966.3	1872.5	1774.8
17.5°	2283.7	2286.1	2250.9	2195.4	2139.1	2096.8	2083.6	2033.5	1950.7	1856.9	1754.5
20°	2174.3	2185.2	2161.8	2112.5	2081.3	2052.3	2043.8	2001.5	1926.4	1834.2	1732.6
22.5°	2064.8	2075.0	2065.6	2024.2	2019.5	2002.3	1997.6	1967.1	1905.3	1820.1	1719.3
25°	1984.3	1993.7	1992.1	1956.2	1970.2	1969.5	1965.5	1950.7	1900.6	1820.1	1721.6
27.5°	1962.4	1965.5	1962.4	1929.6	1949.1	1964.8	1961.6	1959.3	1914.8	1842.7	1751.3
30°	2037.5	2032.8	2008.6	1942.1	1960.1	1982.0	1978.8	1980.4	1956.9	1902.2	1817.8
32.5°	2336.9	2315.8	2239.1	2052.3	2004.7	2016.3	2018.0	2043.8	2047.6	1993.7	1921.0
35°	2784.9	2761.5	2662.1	2347.9	2143.0	2102.4	2102.4	2141.4	2164.9	2125.1	2081.3
37.5°	3259.5	3233.6	3180.6	2757.6	2433.9	2251.7	2247.8	2275.1	2308.8	2318.1	2329.1
40°	3798.9	3771.6	3786.5	3217.3	2839.6	2510.5	2455.0	2435.4	2526.1	2586.3	2673.9
42.5°	4389.3	4376.7	4382.2	3729.4	3301.7	2897.5	2818.5	2717.7	2827.1	2934.2	3118.0
45°	4935.7	4946.7	4941.3	4277.5	3816.1	3369.7	3286.0	3090.6	3197.7	3381.5	3680.9
47.5°	5414.3	5368.9	5439.2	4876.3	4392.3	3898.3	3795.0	3533.2	3641.8	3868.5	4375.2
50°	5995.1	5988.9	5885.6	5675.3	5089.0	4429.1	4293.8	3990.5	4159.4	4474.5	5250.1
52.5°	6605.7	6492.4	6397.7	6297.0	5827.9	4973.3	4807.6	4446.4	4767.7	5164.1	6316.5
55°	6730.8	6680.1	6797.3	6967.0	6540.0	5538.6	5345.4	5017.9	5452.5	5952.1	7546.3
57.5°	6998.2	6997.5	7239.8	7542.4	7273.5	6138.2	5943.5	5708.2	6222.6	6855.2	8852.0
60°	7178.9	7229.7	7680.0	8267.2	7993.5	6831.0	6651.8	6504.9	7098.4	7864.5	10068.5
62.5°	7273.5	7342.2	7956.8	8561.2	9011.5	7984.1	7805.1	7593.3	8257.0	8971.6	10780.0
65°	6880.2	7015.4	7913.8	8815.3	9902.8	9853.5	9773.0	9400.8	9705.8	9846.5	10522.8
67.5°	5791.8	5930.3	6976.3	8578.4	10539.2	11656.4	11673.6	11037.9	10597.1	9921.5	8847.3
70°	4126.6	4235.2	5100.7	7192.2	10054.5	12834.7	12893.3	11792.5	10419.6	8798.8	6181.2
72.5°	1959.3	2025.7	2845.1	4680.8	7978.7	11759.6	11873.0	10829.3	8859.8	6514.3	3372.1
75°	720.1	740.4	961.7	1991.4	4627.7	8672.2	8805.9	7762.9	5873.2	3243.1	1284.5
77.5°	431.6	444.9	539.5	840.5	1820.1	4956.8	5154.6	4221.9	2566.8	1207.2	631.8
80°	301.8	311.2	387.0	523.0	860.0	1888.9	2064.8	1723.2	1022.6	763.8	459.7
82.5°	204.1	208.8	272.1	353.4	571.5	674.7	727.9	766.2	689.6	568.4	291.6
85°	133.7	138.4	184.5	233.0	363.6	348.7	356.5	451.1	503.5	386.3	161.8
87.5°	76.6	79.8	111.0	124.3	178.3	147.8	149.4	237.6	322.1	260.3	98.5
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°	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6	1864.6
2.5°	1857.7	1847.4	1824.8	1810.7	1797.4	1794.4	1788.8	1788.0	1787.3	1787.3	1784.9
5°	1816.2	1799.0	1763.9	1744.2	1727.9	1726.3	1725.5	1729.4	1731.0	1732.6	1730.2
7.5°	1789.7	1766.1	1722.3	1694.2	1674.7	1670.0	1677.8	1695.8	1707.5	1712.2	1709.9
10°	1773.2	1744.2	1693.5	1663.0	1646.5	1644.2	1654.4	1675.5	1699.7	1709.1	1708.3
12.5°	1754.5	1721.6	1667.6	1635.6	1626.2	1630.9	1644.2	1663.7	1688.8	1703.6	1704.4
15°	1735.6	1697.4	1641.8	1613.7	1609.8	1616.1	1628.5	1643.5	1663.0	1677.8	1679.4
17.5°	1713.0	1673.1	1617.6	1588.7	1585.6	1588.7	1589.5	1597.3	1609.8	1623.8	1627.8
20°	1688.8	1648.1	1590.3	1561.3	1547.2	1534.7	1520.7	1522.3	1526.1	1540.3	1543.3
22.5°	1671.6	1630.9	1569.1	1529.3	1491.8	1454.2	1426.1	1422.2	1423.7	1435.4	1439.4
25°	1673.1	1630.2	1563.7	1494.8	1412.8	1352.5	1315.0	1308.8	1308.0	1316.6	1322.1
27.5°	1703.6	1660.7	1584.0	1459.6	1326.8	1237.7	1197.8	1193.1	1186.8	1189.2	1195.4
30°	1771.6	1731.8	1633.2	1423.7	1233.8	1125.0	1083.6	1078.9	1070.3	1066.4	1071.1
32.5°	1882.6	1849.8	1705.2	1389.4	1140.7	1028.9	986.6	976.5	971.1	966.4	970.3
35°	2067.2	2053.1	1801.3	1351.8	1058.7	954.6	916.4	900.7	892.8	901.4	907.7
37.5°	2356.5	2364.2	1927.2	1293.1	995.3	905.4	873.3	855.3	843.6	850.7	857.6
40°	2766.2	2771.6	2066.4	1210.3	940.5	876.5	842.0	825.6	809.2	796.7	796.0
42.5°	3304.0	3248.6	2203.2	1120.3	877.2	858.5	820.1	799.8	774.8	740.4	733.4
45°	3942.0	3747.4	2307.2	1017.2	806.1	836.6	796.0	767.7	728.6	691.1	687.2
47.5°	4676.9	4282.9	2358.0	910.0	739.6	804.6	766.2	721.6	672.4	653.7	651.3
50°	5574.5	4918.6	2382.2	806.1	681.8	762.3	723.2	670.9	629.4	625.4	623.1
52.5°	6596.4	5683.2	2390.1	720.9	634.0	707.6	688.0	637.2	604.4	607.5	607.5
55°	7665.9	6472.8	2283.7	659.1	590.2	651.3	664.6	623.9	596.6	609.1	613.8
57.5°	8647.9	7172.6	1949.1	611.4	548.8	608.2	655.9	636.4	617.7	668.5	671.6
60°	9401.6	7586.2	1455.8	568.4	518.3	593.4	678.6	684.1	688.8	810.0	826.4
62.5°	9559.6	7448.6	1000.8	534.8	504.3	605.9	720.1	720.9	715.3	799.8	810.0
65°	8834.8	6578.4	727.9	516.0	492.6	628.6	755.2	738.9	702.9	767.0	748.2
67.5°	7016.2	4956.1	605.9	502.0	475.4	627.1	792.8	755.2	695.8	751.4	720.9
70°	4554.2	2996.8	539.5	490.2	455.0	597.3	814.7	753.7	675.6	699.0	663.0
72.5°	2222.0	1340.1	494.9	473.0	433.9	555.9	813.9	739.6	654.4	652.8	633.3
75°	869.4	613.8	454.3	447.2	397.9	509.0	792.0	719.3	629.4	604.4	597.3
77.5°	509.0	437.8	402.6	408.9	355.0	462.1	760.0	684.1	594.9	565.3	557.4
80°	370.6	327.5	343.2	353.4	303.3	415.1	717.0	641.1	556.7	571.5	560.6
82.5°	237.6	211.1	278.3	288.5	252.6	367.4	670.0	595.8	502.7	456.5	445.6
85°	121.2	133.7	207.1	219.7	194.7	301.8	613.0	535.5	441.7	379.9	386.3
87.5°	68.0	91.5	132.2	147.8	137.6	232.2	497.3	441.7	360.4	293.2	258.0
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)