

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: P192232

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15824 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full 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

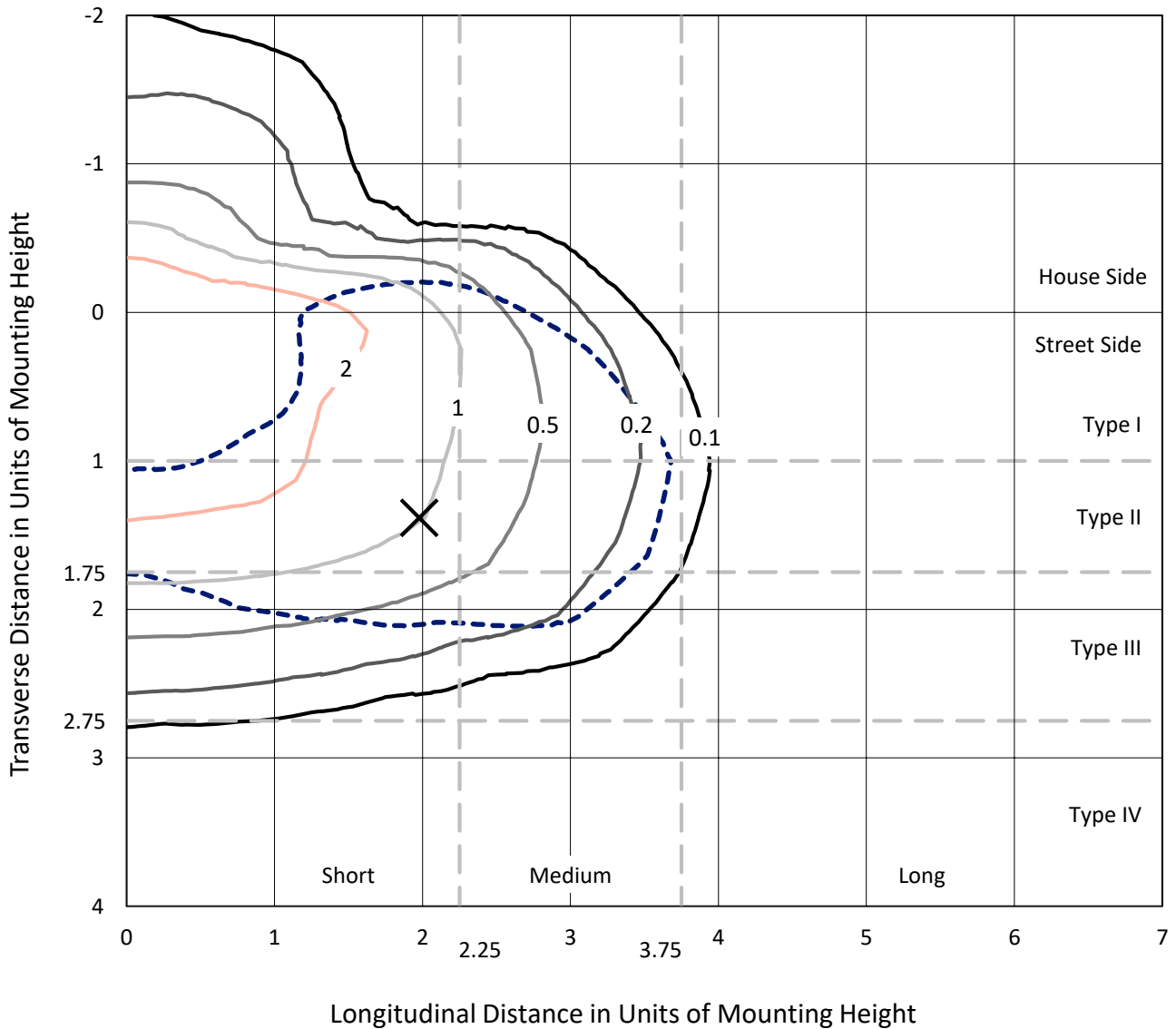


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

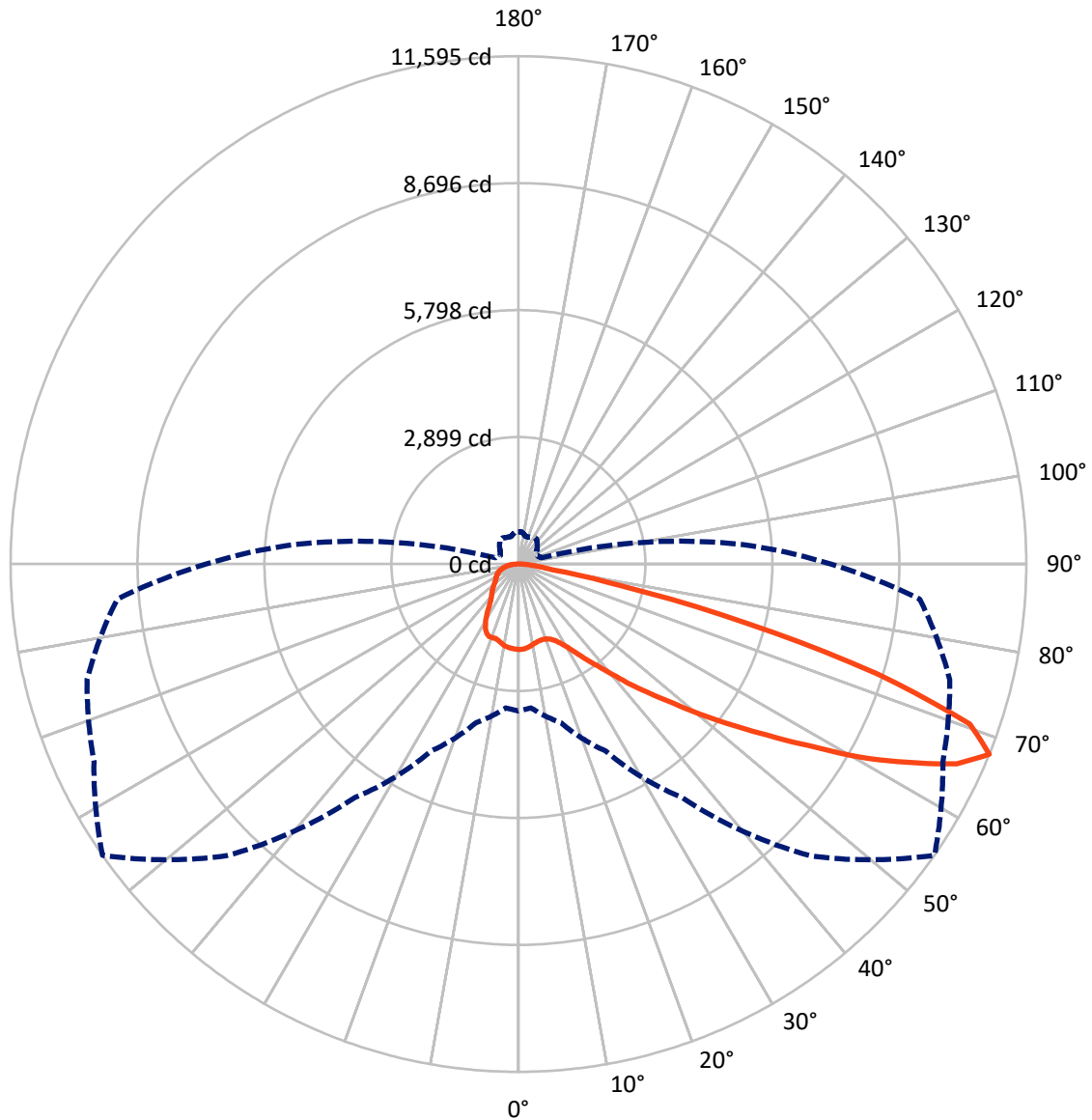


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3418.3	0.0	3418.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	12405.7	0.0	12405.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	15824.0	0.0	15824.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	1.2
10°-20°	515.8	3.3
20°-30°	864.1	5.5
30°-40°	1420.9	9.0
40°-50°	2391.8	15.1
50°-60°	3764.5	23.8
60°-70°	4492.6	28.4
70°-80°	1929.2	12.2
80°-90°	263.0	1.7
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°	15824.0	100.0
0°-180°	15824.0	100.0



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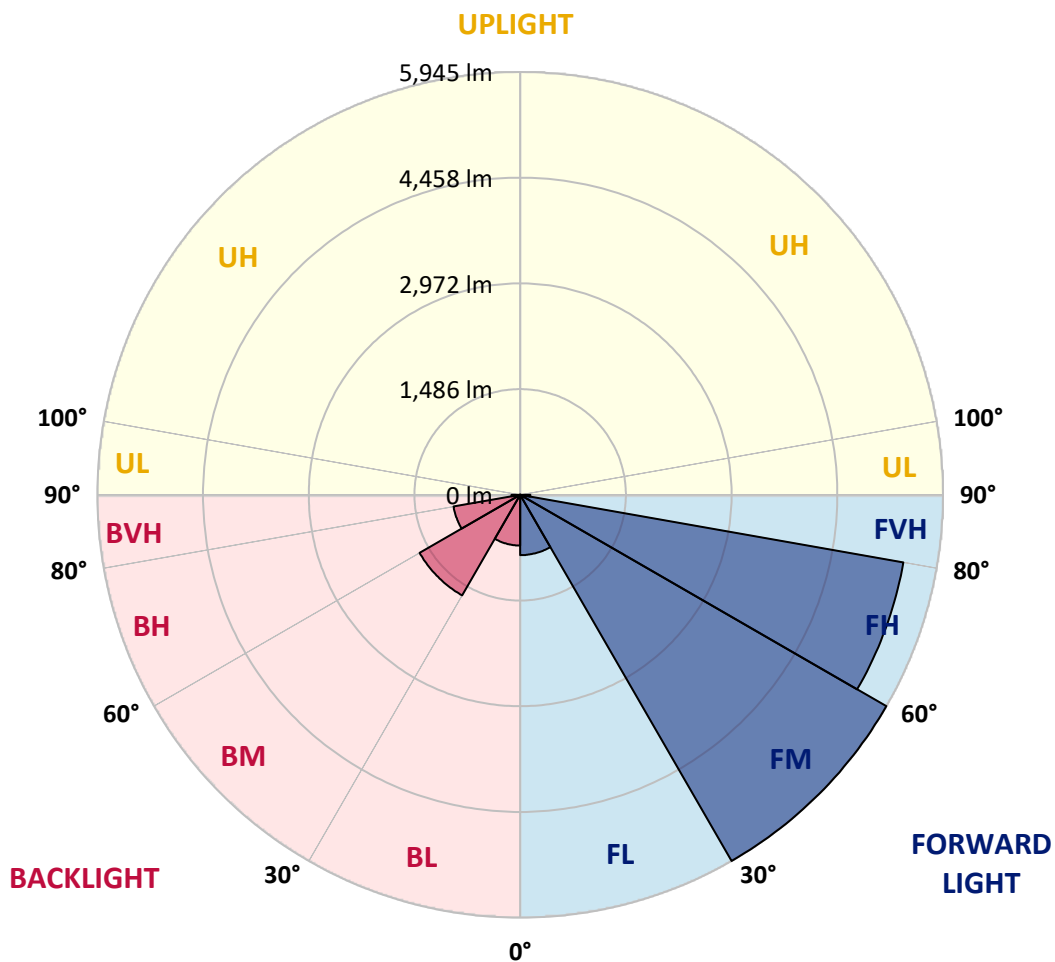
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.2	5.4			
FM (30°-60°)	5944.7	37.6			
FH (60°-80°)	5470.4	34.6			G3/7500
FVH (80°-90°)	142.4	0.9			G2/225
BL (0°-30°)	713.8	4.5	B2/1000		
BM (30°-60°)	1632.6	10.3	B2/2500		
BH (60°-80°)	951.3	6.0	B2/1000		G2/1000
BVH (80°-90°)	120.6	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3
2.5°	1934.5	1935.2	1936.8	1942.9	1948.2	1946.7	1947.5	1944.4	1943.6	1939.0	1943.6
5°	1910.0	1912.3	1913.1	1923.0	1929.1	1930.6	1928.3	1924.5	1919.9	1915.3	1917.6
7.5°	1854.2	1860.3	1861.1	1874.8	1884.8	1897.8	1898.5	1899.3	1897.0	1893.9	1898.5
10°	1819.0	1820.6	1819.8	1829.7	1837.4	1851.9	1860.3	1874.8	1881.0	1882.5	1885.5
12.5°	1816.8	1815.2	1812.9	1812.9	1810.6	1816.8	1832.0	1852.7	1867.2	1871.8	1875.6
15°	1841.2	1840.4	1832.8	1821.3	1806.8	1802.2	1815.2	1838.2	1857.3	1867.2	1871.0
17.5°	1896.2	1891.7	1879.4	1853.4	1822.1	1809.9	1811.4	1830.5	1852.7	1865.7	1869.5
20°	1997.1	1997.1	1971.1	1922.2	1866.4	1837.4	1823.6	1835.1	1856.5	1874.1	1879.4
22.5°	2171.4	2172.9	2129.4	2049.1	1955.1	1893.2	1858.8	1856.5	1881.7	1901.6	1907.7
25°	2418.3	2412.1	2351.0	2236.4	2093.4	1991.0	1931.4	1917.6	1939.0	1961.2	1968.9
27.5°	2705.6	2683.5	2610.9	2472.5	2287.6	2137.8	2046.0	2023.9	2044.5	2069.7	2077.4
30°	2990.0	2967.0	2880.7	2729.3	2523.7	2334.2	2202.7	2166.8	2195.8	2231.8	2236.4
32.5°	3274.3	3274.3	3178.0	3001.4	2777.5	2568.8	2411.4	2368.6	2416.7	2460.3	2470.2
35°	3614.4	3615.9	3522.7	3310.2	3069.5	2848.6	2675.1	2643.7	2716.3	2746.9	2770.6
37.5°	4032.5	4040.9	3920.9	3664.1	3400.4	3168.0	2961.7	2918.9	2991.5	3074.8	3151.2
40°	4484.2	4494.9	4362.7	4046.2	3782.5	3539.5	3316.3	3239.1	3359.9	3518.9	3617.5
42.5°	4915.2	4970.3	4842.6	4517.0	4233.5	3982.0	3755.8	3643.4	3794.8	4034.8	4120.4
45°	5538.2	5577.9	5355.5	5060.5	4793.7	4512.5	4212.9	4094.4	4306.1	4608.8	4626.3
47.5°	5953.2	5923.4	5810.3	5626.8	5457.9	5195.0	4744.0	4614.1	4895.4	5251.5	5152.9
50°	6174.1	6183.2	6167.9	6178.6	6184.8	6019.7	5395.2	5217.1	5552.7	5983.0	5756.0
52.5°	6380.4	6319.3	6369.7	6620.4	6923.1	6861.9	6103.7	5918.0	6257.4	6794.7	6393.4
55°	6375.8	6282.6	6446.9	6889.5	7546.0	7616.3	6899.4	6685.4	7002.6	7665.2	7069.1
57.5°	6150.4	6155.0	6407.9	6987.3	7980.1	8325.6	7822.7	7501.7	7792.9	8547.2	7685.9
60°	5840.1	5882.1	6246.7	6971.2	8327.9	8907.2	8955.4	8381.4	8567.1	9349.0	8196.4
62.5°	5339.4	5383.8	5886.7	6804.6	8275.1	9467.5	9979.5	9379.6	9376.5	9835.1	8346.2
65°	4549.9	4536.9	5065.1	6181.7	7832.6	9881.7	10996.8	10242.5	9986.4	9842.7	8045.1
67.5°	3355.3	3297.2	3750.4	4708.1	6510.4	9417.8	11595.3	10691.9	10194.3	9195.4	7124.9
70°	1741.1	1683.0	2049.9	2749.2	4281.6	7350.3	10932.6	10459.5	9735.0	7708.0	5581.7
72.5°	744.4	734.5	883.5	1206.1	2071.3	4239.6	8572.5	9053.2	8353.1	5743.0	3837.6
75°	500.6	497.6	553.4	657.3	931.7	1720.5	5364.7	6426.3	6111.4	3560.9	2158.4
77.5°	392.9	389.0	421.9	472.3	603.8	678.7	2380.8	3450.1	3193.3	1550.0	944.7
80°	307.3	304.2	324.8	352.3	434.1	428.0	783.4	1372.7	1062.4	593.9	459.3
82.5°	242.3	242.3	259.1	259.9	308.0	292.0	408.9	604.6	530.4	346.2	281.3
85°	221.6	221.6	239.2	194.1	201.0	184.2	253.7	358.5	336.3	142.2	122.3
87.5°	111.6	108.5	201.0	172.0	109.3	97.8	123.8	173.5	186.5	78.7	61.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3	1951.3
2.5°	1942.1	1941.3	1942.9	1943.6	1949.7	1958.2	1962.0	1967.3	1970.4	1968.9
5°	1919.2	1920.7	1926.8	1931.4	1942.1	1955.9	1963.5	1969.6	1975.0	1972.7
7.5°	1900.1	1903.9	1913.1	1916.9	1923.0	1926.8	1926.0	1928.3	1932.9	1927.6
10°	1889.4	1893.9	1900.8	1895.5	1881.0	1860.3	1841.2	1831.3	1834.3	1830.5
12.5°	1878.7	1884.8	1879.4	1854.2	1813.7	1786.9	1772.4	1774.0	1780.8	1782.4
15°	1872.5	1874.8	1851.9	1804.5	1763.3	1759.4	1767.1	1765.5	1766.3	1766.3
17.5°	1872.5	1866.4	1823.6	1776.2	1758.7	1751.8	1728.1	1698.3	1685.3	1680.7
20°	1882.5	1866.4	1814.5	1783.1	1744.9	1686.1	1623.4	1568.4	1543.9	1537.0
22.5°	1912.3	1884.8	1840.4	1786.2	1677.7	1579.1	1479.7	1414.0	1369.6	1362.0
25°	1972.7	1942.1	1891.7	1745.7	1570.6	1430.0	1316.9	1243.5	1199.2	1193.1
27.5°	2078.1	2058.3	1919.2	1656.3	1428.5	1277.9	1173.2	1116.7	1083.8	1081.5
30°	2237.1	2227.2	1905.4	1524.0	1253.5	1130.4	1080.0	1047.1	1022.6	1021.9
32.5°	2490.9	2410.6	1860.3	1362.8	1093.7	1025.7	1005.1	985.2	966.1	966.1
35°	2817.2	2558.9	1774.7	1190.0	996.7	967.6	941.6	910.3	885.1	883.5
37.5°	3200.9	2650.6	1621.1	1050.9	950.8	928.6	890.4	843.8	799.5	791.8
40°	3588.4	2678.1	1404.8	965.3	921.8	889.7	843.0	788.0	745.2	742.9
42.5°	3943.8	2625.4	1175.5	906.5	892.7	849.9	801.0	752.1	718.4	717.7
45°	4241.9	2488.6	982.9	850.7	862.1	814.0	770.4	730.7	704.7	699.3
47.5°	4522.4	2295.2	847.6	791.8	831.6	794.1	757.4	720.0	694.8	690.9
50°	4848.0	2086.6	752.8	734.5	804.8	787.2	768.1	729.1	687.1	682.5
52.5°	5242.4	1906.2	678.7	684.1	784.2	796.4	795.6	755.1	681.8	675.6
55°	5682.6	1705.9	622.9	642.8	775.8	813.2	802.5	779.6	686.3	677.2
57.5°	6116.0	1472.1	583.9	611.4	763.5	811.7	769.7	736.8	697.0	684.1
60°	6440.8	1157.9	554.1	583.9	736.8	786.5	733.7	690.2	694.8	684.8
62.5°	6462.2	895.0	518.2	560.2	696.3	761.2	710.0	669.5	704.7	695.5
65°	6082.3	676.4	483.8	532.0	652.7	745.2	687.1	658.1	725.3	715.4
67.5°	5120.8	544.2	454.8	502.9	609.2	711.6	666.5	647.4	743.7	726.1
70°	3696.9	463.9	426.5	467.8	570.2	673.4	648.1	628.3	694.0	666.5
72.5°	2276.1	402.0	394.4	421.1	540.4	633.6	620.6	592.3	625.2	603.0
75°	1136.5	348.5	358.5	375.3	498.3	588.5	574.8	546.5	551.1	546.5
77.5°	544.2	298.1	316.4	329.4	444.1	537.3	522.8	493.7	488.4	489.2
80°	344.7	249.2	266.7	275.9	396.7	477.7	463.2	434.1	495.3	459.3
82.5°	215.5	202.5	207.1	223.9	345.5	415.8	396.7	370.7	446.4	353.1
85°	119.2	141.4	147.5	162.0	266.0	347.8	328.7	295.8	265.2	260.6
87.5°	71.1	84.1	86.4	97.1	178.8	251.5	222.4	210.9	175.0	174.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)