

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: P193982

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193982
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-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15834 lumens
Efficiency: N/A
Efficacy: 92.6 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): 171
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

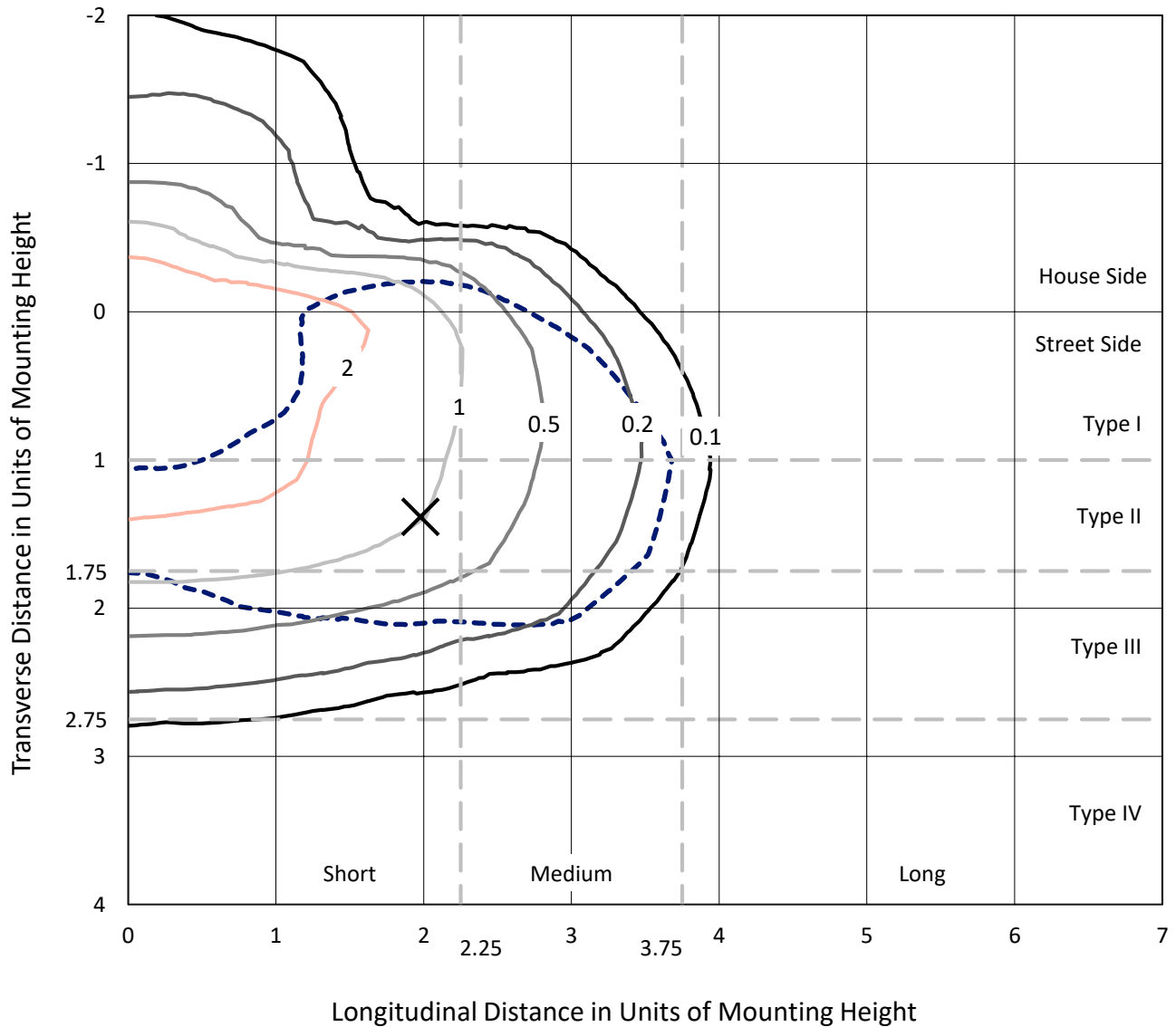


REPORT NUMBER: P193982

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

Iso-Footcandle Lines of Horizontal Illumination

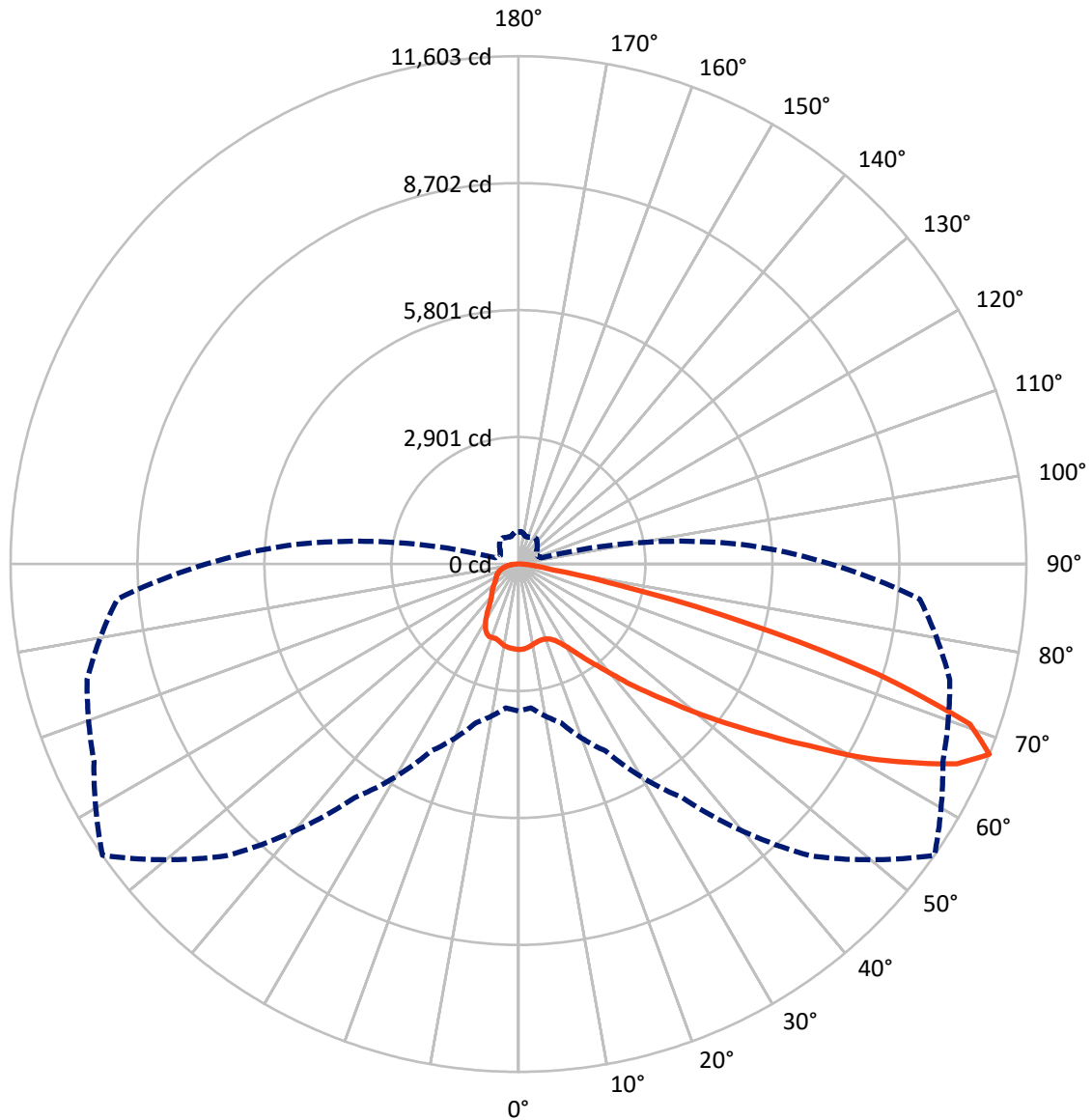
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P193982
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193982

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3420.5	0.0	3420.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12413.5	0.0	12413.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	15834.0	0.0	15834.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.2
10°-20°	516.1	3.3
20°-30°	864.6	5.5
30°-40°	1421.8	9.0
40°-50°	2393.3	15.1
50°-60°	3766.9	23.8
60°-70°	4495.4	28.4
70°-80°	1930.4	12.2
80°-90°	263.2	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°	15834.0	100.0
0°-180°	15834.0	100.0



REPORT NUMBER: P193982

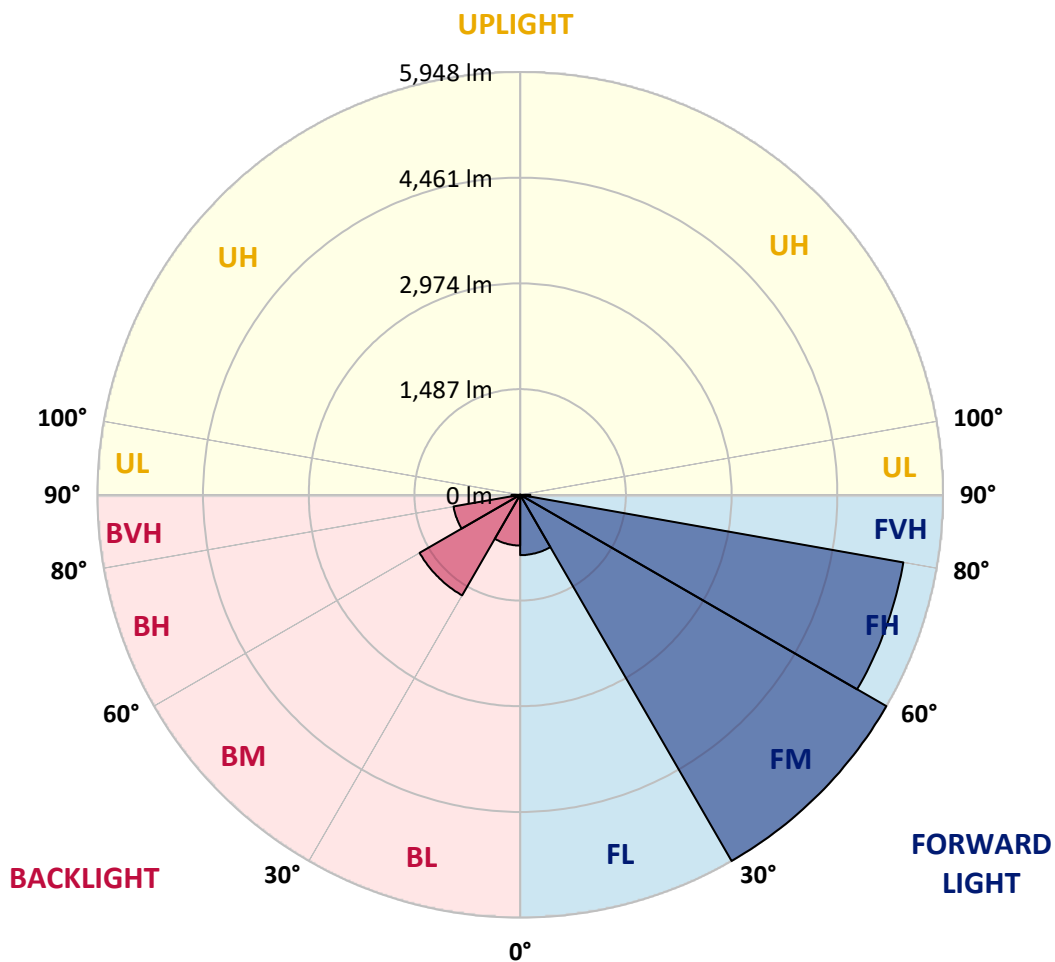
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.7	5.4			
FM (30°-60°)	5948.4	37.6			
FH (60°-80°)	5473.9	34.6			G3/7500
FVH (80°-90°)	142.5	0.9			G2/225
BL (0°-30°)	714.3	4.5	B2/1000		
BM (30°-60°)	1633.6	10.3	B2/2500		
BH (60°-80°)	951.9	6.0	B2/1000		G2/1000
BVH (80°-90°)	120.7	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





REPORT NUMBER: P193982

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5
2.5°	1935.7	1936.4	1938.0	1944.1	1949.4	1947.9	1948.7	1945.6	1944.9	1940.3	1944.9
5°	1911.2	1913.5	1914.3	1924.2	1930.3	1931.9	1929.6	1925.7	1921.1	1916.6	1918.9
7.5°	1855.4	1861.5	1862.3	1876.0	1886.0	1899.0	1899.7	1900.5	1898.2	1895.1	1899.7
10°	1820.2	1821.7	1821.0	1830.9	1838.6	1853.1	1861.5	1876.0	1882.1	1883.7	1886.7
12.5°	1817.9	1816.4	1814.1	1814.1	1811.8	1817.9	1833.2	1853.8	1868.4	1873.0	1876.8
15°	1842.4	1841.6	1834.0	1822.5	1808.0	1803.4	1816.4	1839.3	1858.4	1868.4	1872.2
17.5°	1897.4	1892.9	1880.6	1854.6	1823.3	1811.0	1812.5	1831.7	1853.8	1866.8	1870.7
20°	1998.4	1998.4	1972.4	1923.4	1867.6	1838.6	1824.8	1836.3	1857.7	1875.3	1880.6
22.5°	2172.8	2174.3	2130.7	2050.4	1956.3	1894.4	1860.0	1857.7	1882.9	1902.8	1908.9
25°	2419.8	2413.7	2352.5	2237.8	2094.8	1992.3	1932.6	1918.9	1940.3	1962.4	1970.1
27.5°	2707.4	2685.2	2612.5	2474.1	2289.0	2139.1	2047.3	2025.2	2045.8	2071.0	2078.7
30°	2991.9	2968.9	2882.5	2731.1	2525.3	2335.7	2204.1	2168.2	2197.2	2233.2	2237.8
32.5°	3276.4	3276.4	3180.0	3003.3	2779.2	2570.5	2412.9	2370.1	2418.3	2461.9	2471.8
35°	3616.7	3618.2	3524.9	3312.3	3071.4	2850.4	2676.8	2645.4	2718.1	2748.7	2772.4
37.5°	4035.0	4043.4	3923.4	3666.4	3402.5	3170.0	2963.6	2920.7	2993.4	3076.7	3153.2
40°	4487.0	4497.7	4365.4	4048.8	3784.9	3541.7	3318.4	3241.2	3362.0	3521.1	3619.7
42.5°	4918.4	4973.4	4845.7	4519.9	4236.2	3984.5	3758.2	3645.7	3797.2	4037.3	4123.0
45°	5541.7	5581.4	5358.9	5063.7	4796.8	4515.3	4215.5	4097.0	4308.8	4611.7	4629.3
47.5°	5956.9	5927.1	5813.9	5630.4	5461.4	5198.3	4747.0	4617.0	4898.5	5254.9	5156.2
50°	6178.0	6187.1	6171.8	6182.6	6188.7	6023.5	5398.6	5220.4	5556.2	5986.8	5759.6
52.5°	6384.5	6323.3	6373.7	6624.6	6927.5	6866.3	6107.6	5921.8	6261.3	6799.0	6397.5
55°	6379.9	6286.6	6451.0	6893.8	7550.8	7621.1	6903.7	6689.6	7007.0	7670.1	7073.5
57.5°	6154.3	6158.8	6412.0	6991.7	7985.2	8330.8	7827.6	7506.4	7797.8	8552.6	7690.7
60°	5843.7	5885.8	6250.6	6975.6	8333.1	8912.8	8961.0	8386.7	8572.5	9354.9	8201.6
62.5°	5342.8	5387.2	5890.4	6808.9	8280.4	9473.4	9985.8	9385.5	9382.4	9841.3	8351.5
65°	4552.8	4539.8	5068.3	6185.6	7837.6	9888.0	11003.8	10248.9	9992.7	9848.9	8050.2
67.5°	3357.4	3299.3	3752.8	4711.1	6514.5	9423.7	11602.6	10698.6	10200.7	9201.2	7129.4
70°	1742.2	1684.1	2051.2	2750.9	4284.3	7355.0	10939.5	10466.1	9741.1	7712.9	5585.3
72.5°	744.9	735.0	884.1	1206.8	2072.6	4242.3	8577.9	9058.9	8358.4	5746.6	3840.0
75°	500.9	497.9	553.7	657.7	932.3	1721.5	5368.1	6430.3	6115.2	3563.1	2159.8
77.5°	393.1	389.3	422.2	472.6	604.2	679.1	2382.3	3452.3	3195.3	1551.0	945.3
80°	307.4	304.4	325.0	352.6	434.4	428.3	783.9	1373.6	1063.1	594.2	459.6
82.5°	242.4	242.4	259.3	260.0	308.2	292.1	409.2	604.9	530.8	346.4	281.4
85°	221.8	221.8	239.4	194.3	201.1	184.3	253.9	358.7	336.5	142.3	122.4
87.5°	111.7	108.6	201.1	172.1	109.4	97.9	123.9	173.6	186.6	78.8	61.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193982

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5	1952.5
2.5°	1943.3	1942.6	1944.1	1944.9	1951.0	1959.4	1963.2	1968.6	1971.6	1970.1
5°	1920.4	1921.9	1928.0	1932.6	1943.3	1957.1	1964.7	1970.9	1976.2	1973.9
7.5°	1901.3	1905.1	1914.3	1918.1	1924.2	1928.0	1927.3	1929.6	1934.2	1928.8
10°	1890.6	1895.1	1902.0	1896.7	1882.1	1861.5	1842.4	1832.4	1835.5	1831.7
12.5°	1879.9	1886.0	1880.6	1855.4	1814.8	1788.1	1773.5	1775.1	1782.0	1783.5
15°	1873.7	1876.0	1853.1	1805.7	1764.4	1760.5	1768.2	1766.7	1767.4	1767.4
17.5°	1873.7	1867.6	1824.8	1777.4	1759.8	1752.9	1729.2	1699.4	1686.4	1681.8
20°	1883.7	1867.6	1815.6	1784.3	1746.0	1687.1	1624.4	1569.3	1544.9	1538.0
22.5°	1913.5	1886.0	1841.6	1787.3	1678.7	1580.1	1480.6	1414.9	1370.5	1362.9
25°	1973.9	1943.3	1892.9	1746.8	1571.6	1430.9	1317.7	1244.3	1200.0	1193.8
27.5°	2079.5	2059.6	1920.4	1657.3	1429.4	1278.7	1174.0	1117.4	1084.5	1082.2
30°	2238.5	2228.6	1906.6	1525.0	1254.3	1131.1	1080.6	1047.8	1023.3	1022.5
32.5°	2492.4	2412.1	1861.5	1363.6	1094.4	1026.3	1005.7	985.8	966.7	966.7
35°	2819.0	2560.5	1775.8	1190.8	997.3	968.2	942.2	910.9	885.6	884.1
37.5°	3202.9	2652.3	1622.1	1051.6	951.4	929.2	891.0	844.3	800.0	792.3
40°	3590.7	2679.8	1405.7	965.9	922.3	890.2	843.6	788.5	745.7	743.4
42.5°	3946.3	2627.0	1176.2	907.0	893.3	850.4	801.5	752.6	718.9	718.1
45°	4244.6	2490.2	983.5	851.2	862.7	814.5	770.9	731.1	705.1	699.8
47.5°	4525.3	2296.7	848.2	792.3	832.1	794.6	757.9	720.4	695.2	691.4
50°	4851.1	2087.9	753.3	735.0	805.3	787.7	768.6	729.6	687.5	683.0
52.5°	5245.7	1907.4	679.1	684.5	784.7	796.9	796.1	755.6	682.2	676.1
55°	5686.2	1707.0	623.3	643.2	776.3	813.7	803.0	780.1	686.8	677.6
57.5°	6119.8	1473.0	584.3	611.8	764.0	812.2	770.1	737.3	697.5	684.5
60°	6444.9	1158.7	554.5	584.3	737.3	787.0	734.2	690.6	695.2	685.3
62.5°	6466.3	895.6	518.5	560.6	696.7	761.7	710.5	670.0	705.1	696.0
65°	6086.2	676.8	484.1	532.3	653.1	745.7	687.5	658.5	725.8	715.8
67.5°	5124.1	544.5	455.0	503.2	609.5	712.0	666.9	647.8	744.1	726.5
70°	3699.3	464.2	426.8	468.1	570.5	673.8	648.5	628.7	694.4	666.9
72.5°	2277.5	402.3	394.6	421.4	540.7	634.0	621.0	592.7	625.6	603.4
75°	1137.2	348.7	358.7	375.5	498.6	588.9	575.1	546.8	551.4	546.8
77.5°	544.5	298.3	316.6	329.6	444.3	537.6	523.1	494.1	488.7	489.5
80°	344.9	249.3	266.9	276.1	396.9	478.0	463.5	434.4	495.6	459.6
82.5°	215.7	202.7	207.3	224.1	345.7	416.0	396.9	370.9	446.6	353.3
85°	119.3	141.5	147.6	162.1	266.1	348.0	328.9	296.0	265.4	260.8
87.5°	71.1	84.1	86.4	97.1	179.0	251.6	222.6	211.1	175.1	174.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)