

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: P193973

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193973
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-05-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15998 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

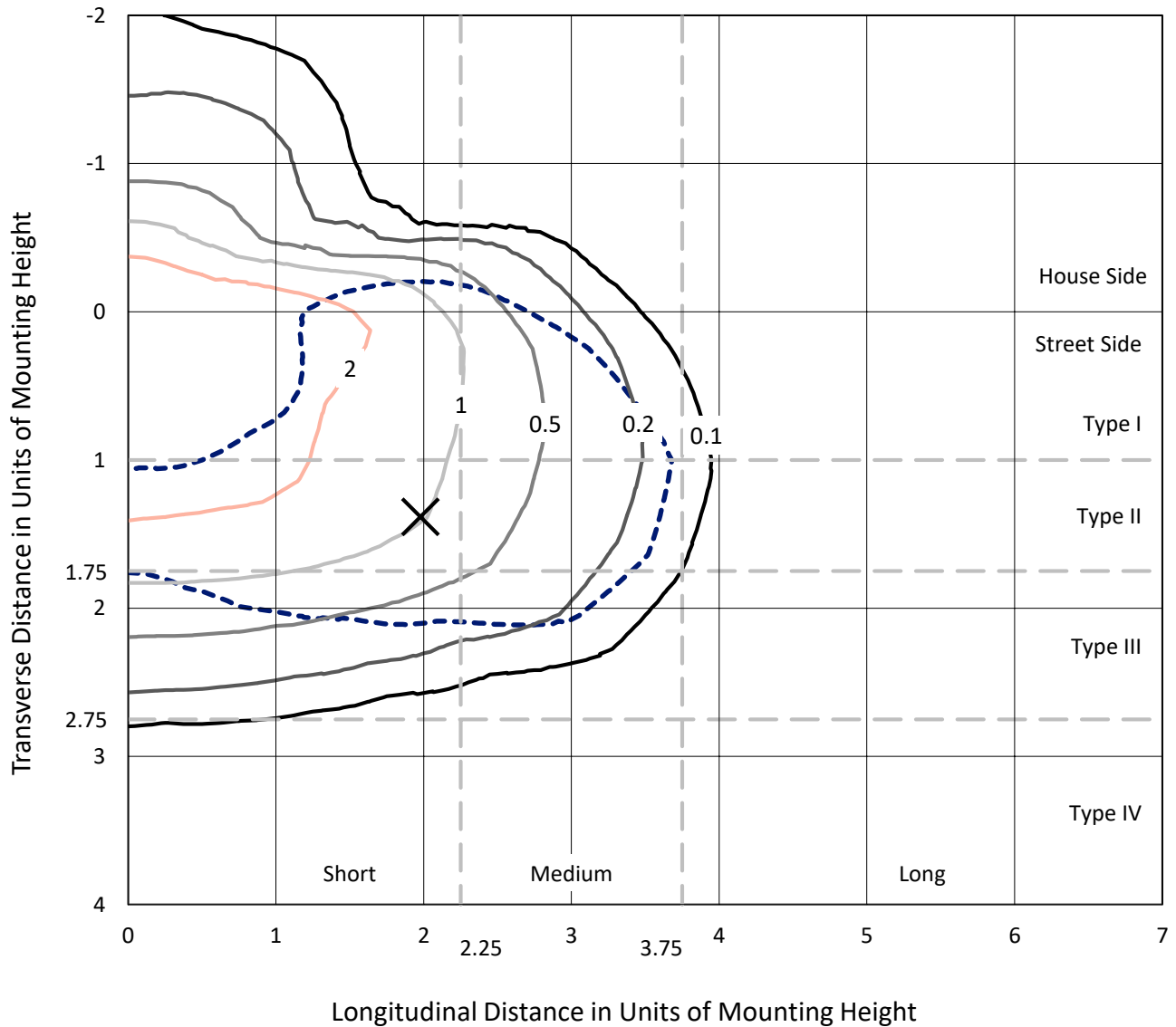
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

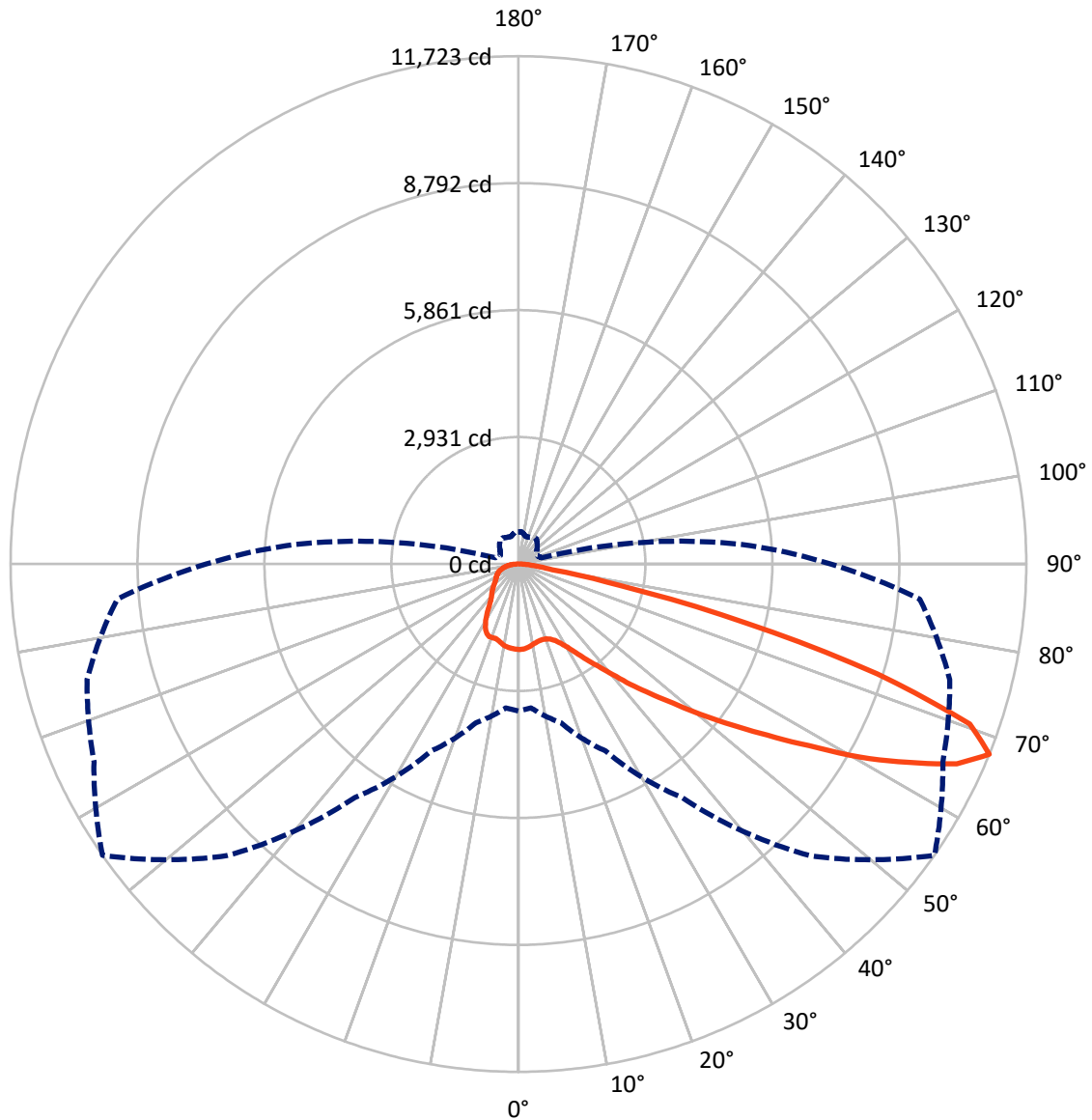
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
House Side	Lumens	3455.9	0.0	3455.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12542.1	0.0	12542.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	15998.0	0.0	15998.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.2
10°-20°	521.5	3.3
20°-30°	873.6	5.5
30°-40°	1436.5	9.0
40°-50°	2418.1	15.1
50°-60°	3805.9	23.8
60°-70°	4541.9	28.4
70°-80°	1950.4	12.2
80°-90°	265.9	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°	15998.0	100.0
0°-180°	15998.0	100.0



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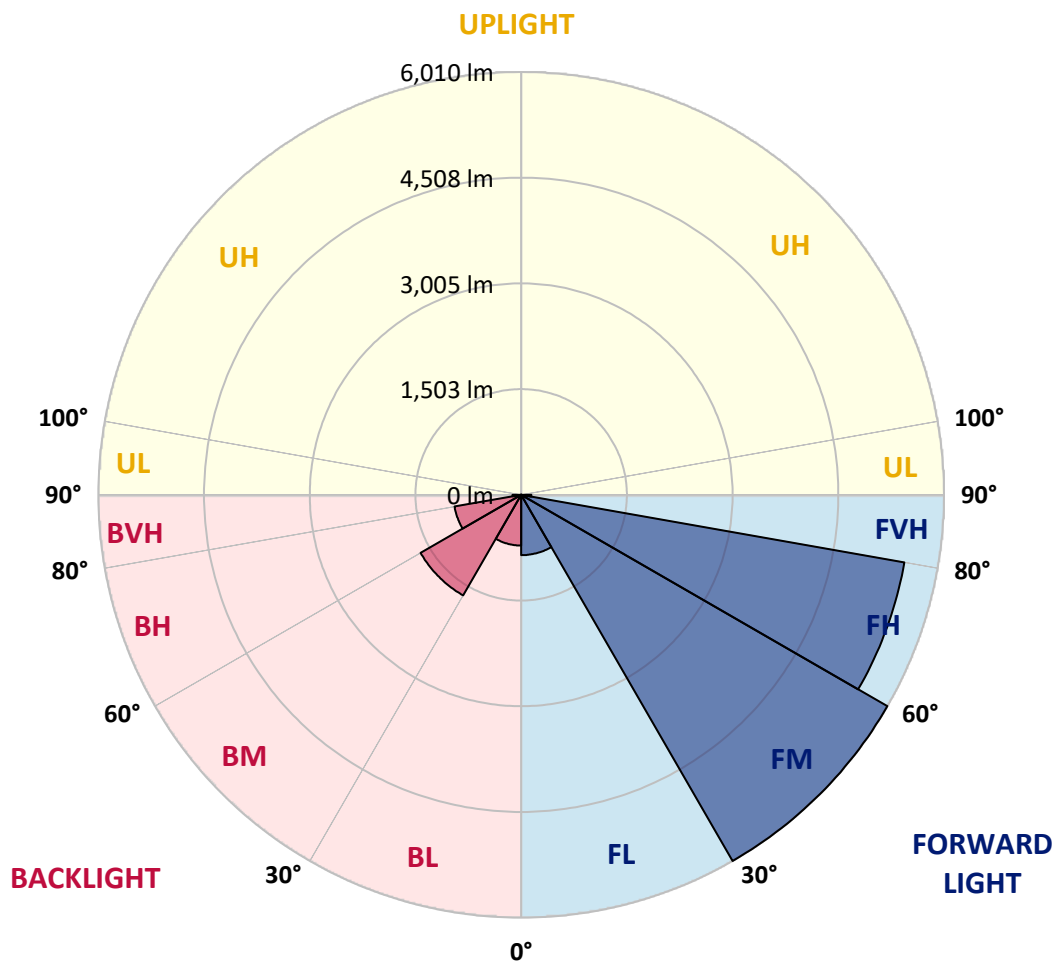
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.5	5.4			
FM (30°-60°)	6010.0	37.6			
FH (60°-80°)	5530.6	34.6			G3/7500
FVH (80°-90°)	143.9	0.9			G2/225
BL (0°-30°)	721.7	4.5	B2/1000		
BM (30°-60°)	1650.5	10.3	B2/2500		
BH (60°-80°)	961.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	122.0	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°	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7
2.5°	1955.7	1956.5	1958.0	1964.2	1969.6	1968.1	1968.9	1965.8	1965.0	1960.4	1965.0
5°	1931.0	1933.3	1934.1	1944.1	1950.3	1951.9	1949.5	1945.7	1941.0	1936.4	1938.7
7.5°	1874.6	1880.8	1881.5	1895.5	1905.5	1918.6	1919.4	1920.2	1917.9	1914.8	1919.4
10°	1839.0	1840.6	1839.8	1849.9	1857.6	1872.3	1880.8	1895.5	1901.6	1903.2	1906.3
12.5°	1836.7	1835.2	1832.9	1832.9	1830.5	1836.7	1852.2	1873.0	1887.7	1892.4	1896.2
15°	1861.5	1860.7	1853.0	1841.4	1826.7	1822.0	1835.2	1858.4	1877.7	1887.7	1891.6
17.5°	1917.1	1912.5	1900.1	1873.8	1842.1	1829.8	1831.3	1850.6	1873.0	1886.2	1890.0
20°	2019.1	2019.1	1992.8	1943.4	1887.0	1857.6	1843.7	1855.3	1876.9	1894.7	1900.1
22.5°	2195.3	2196.8	2152.8	2071.6	1976.6	1914.0	1879.2	1876.9	1902.4	1922.5	1928.7
25°	2444.9	2438.7	2376.9	2260.9	2116.5	2012.9	1952.6	1938.7	1960.4	1982.8	1990.5
27.5°	2735.4	2713.0	2639.6	2499.7	2312.7	2161.3	2068.5	2046.1	2067.0	2092.5	2100.2
30°	3022.8	2999.7	2912.3	2759.3	2551.5	2359.9	2226.9	2190.6	2220.0	2256.3	2260.9
32.5°	3310.3	3310.3	3212.9	3034.4	2808.0	2597.1	2437.9	2394.6	2443.3	2487.4	2497.4
35°	3654.1	3655.7	3561.4	3346.6	3103.2	2879.9	2704.5	2672.8	2746.2	2777.1	2801.1
37.5°	4076.8	4085.3	3964.0	3704.4	3437.8	3202.9	2994.3	2951.0	3024.4	3108.6	3185.9
40°	4533.5	4544.3	4410.6	4090.7	3824.1	3578.4	3352.8	3274.7	3396.8	3557.6	3657.2
42.5°	4969.3	5024.9	4895.9	4566.7	4280.0	4025.8	3797.1	3683.5	3836.5	4079.1	4165.7
45°	5599.1	5639.2	5414.4	5116.1	4846.4	4562.1	4259.2	4139.4	4353.4	4659.4	4677.2
47.5°	6018.6	5988.5	5874.1	5688.7	5517.9	5252.1	4796.2	4664.8	4949.2	5309.3	5209.6
50°	6241.9	6251.2	6235.8	6246.6	6252.8	6085.9	5454.6	5274.5	5613.7	6048.8	5819.3
52.5°	6450.6	6388.8	6439.8	6693.2	6999.2	6937.4	6170.9	5983.1	6326.2	6869.4	6463.7
55°	6445.9	6351.7	6517.8	6965.2	7629.0	7700.1	6975.3	6758.9	7079.6	7749.5	7146.8
57.5°	6218.0	6222.6	6478.4	7064.1	8067.9	8417.1	7908.7	7584.1	7878.5	8641.2	7770.4
60°	5904.3	5946.8	6315.4	7047.9	8419.4	9005.2	9053.8	8473.5	8661.3	9451.8	8286.5
62.5°	5398.2	5443.0	5951.4	6879.4	8366.1	9571.6	10089.3	9482.7	9479.6	9943.2	8438.0
65°	4599.9	4586.8	5120.7	6249.7	7918.7	9990.4	11117.7	10355.1	10096.2	9951.0	8133.5
67.5°	3392.2	3333.5	3791.7	4759.9	6581.9	9521.3	11722.8	10809.4	10306.4	9296.5	7203.2
70°	1760.2	1701.5	2072.4	2779.4	4328.7	7431.2	11052.8	10574.5	9842.0	7792.8	5643.1
72.5°	752.6	742.6	893.3	1219.3	2094.0	4286.2	8666.7	9152.7	8444.9	5806.1	3879.8
75°	506.1	503.0	559.4	664.5	941.9	1739.4	5423.7	6496.9	6178.6	3600.1	2182.1
77.5°	397.2	393.3	426.5	477.5	610.4	686.2	2407.0	3488.0	3228.4	1567.1	955.1
80°	310.6	307.5	328.4	356.2	438.9	432.7	792.0	1387.8	1074.1	600.4	464.4
82.5°	244.9	244.9	261.9	262.7	311.4	295.2	413.4	611.2	536.3	350.0	284.4
85°	224.1	224.1	241.9	196.3	203.2	186.2	256.5	362.4	340.0	143.7	123.6
87.5°	112.8	109.7	203.2	173.9	110.5	98.9	125.2	175.4	188.5	79.6	61.8
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°	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7
2.5°	1963.5	1962.7	1964.2	1965.0	1971.2	1979.7	1983.5	1989.0	1992.0	1990.5
5°	1940.3	1941.8	1948.0	1952.6	1963.5	1977.4	1985.1	1991.3	1996.7	1994.4
7.5°	1921.0	1924.8	1934.1	1938.0	1944.1	1948.0	1947.2	1949.5	1954.2	1948.8
10°	1910.1	1914.8	1921.7	1916.3	1901.6	1880.8	1861.5	1851.4	1854.5	1850.6
12.5°	1899.3	1905.5	1900.1	1874.6	1833.6	1806.6	1791.9	1793.5	1800.4	1802.0
15°	1893.1	1895.5	1872.3	1824.4	1782.6	1778.8	1786.5	1785.0	1785.7	1785.7
17.5°	1893.1	1887.0	1843.7	1795.8	1778.0	1771.1	1747.1	1717.0	1703.8	1699.2
20°	1903.2	1887.0	1834.4	1802.7	1764.1	1704.6	1641.2	1585.6	1560.9	1553.9
22.5°	1933.3	1905.5	1860.7	1805.8	1696.1	1596.4	1496.0	1429.5	1384.7	1377.0
25°	1994.4	1963.5	1912.5	1764.9	1587.9	1445.7	1331.4	1257.2	1212.4	1206.2
27.5°	2101.0	2080.9	1940.3	1674.5	1444.2	1292.0	1186.1	1128.9	1095.7	1093.4
30°	2261.7	2251.7	1926.4	1540.8	1267.2	1142.8	1091.8	1058.6	1033.9	1033.1
32.5°	2518.3	2437.1	1880.8	1377.7	1105.7	1037.0	1016.1	996.0	976.7	976.7
35°	2848.2	2587.0	1794.2	1203.1	1007.6	978.3	952.0	920.3	894.8	893.3
37.5°	3236.1	2679.8	1638.9	1062.5	961.3	938.8	900.2	853.1	808.3	800.5
40°	3627.9	2707.6	1420.2	975.9	931.9	899.4	852.3	796.7	753.4	751.1
42.5°	3987.2	2654.3	1188.4	916.4	902.5	859.3	809.8	760.3	726.3	725.6
45°	4288.5	2515.9	993.7	860.0	871.6	822.9	778.9	738.7	712.4	707.0
47.5°	4572.1	2320.4	856.9	800.5	840.7	802.8	765.8	727.9	702.4	698.5
50°	4901.3	2109.5	761.1	742.6	813.7	795.9	776.6	737.2	694.7	690.0
52.5°	5300.0	1927.1	686.2	691.6	792.8	805.2	804.4	763.4	689.3	683.1
55°	5745.1	1724.7	629.8	649.8	784.3	822.2	811.3	788.2	693.9	684.6
57.5°	6183.2	1488.2	590.4	618.2	771.9	820.6	778.1	744.9	704.7	691.6
60°	6511.6	1170.7	560.2	590.4	744.9	795.1	741.8	697.8	702.4	692.3
62.5°	6533.3	904.8	523.9	566.4	703.9	769.6	717.8	676.9	712.4	703.2
65°	6149.2	683.8	489.1	537.8	659.9	753.4	694.7	665.3	733.3	723.3
67.5°	5177.2	550.2	459.8	508.4	615.8	719.4	673.8	654.5	751.8	734.1
70°	3737.6	469.0	431.2	472.9	576.4	680.8	655.3	635.2	701.6	673.8
72.5°	2301.1	406.4	398.7	425.8	546.3	640.6	627.4	598.9	632.1	609.7
75°	1149.0	352.4	362.4	379.4	503.8	595.0	581.1	552.5	557.1	552.5
77.5°	550.2	301.4	319.9	333.0	448.9	543.2	528.5	499.2	493.8	494.5
80°	348.5	251.9	269.7	278.9	401.0	482.9	468.3	438.9	500.7	464.4
82.5°	217.9	204.8	209.4	226.4	349.3	420.4	401.0	374.8	451.3	357.0
85°	120.5	143.0	149.1	163.8	268.9	351.6	332.3	299.0	268.1	263.5
87.5°	71.9	85.0	87.3	98.1	180.8	254.2	224.9	213.3	177.0	176.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)