

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: P193991

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193991
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-03-LED-E1-T3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14832 lumens
Efficiency: N/A
Efficacy: 89.3 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): 166
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

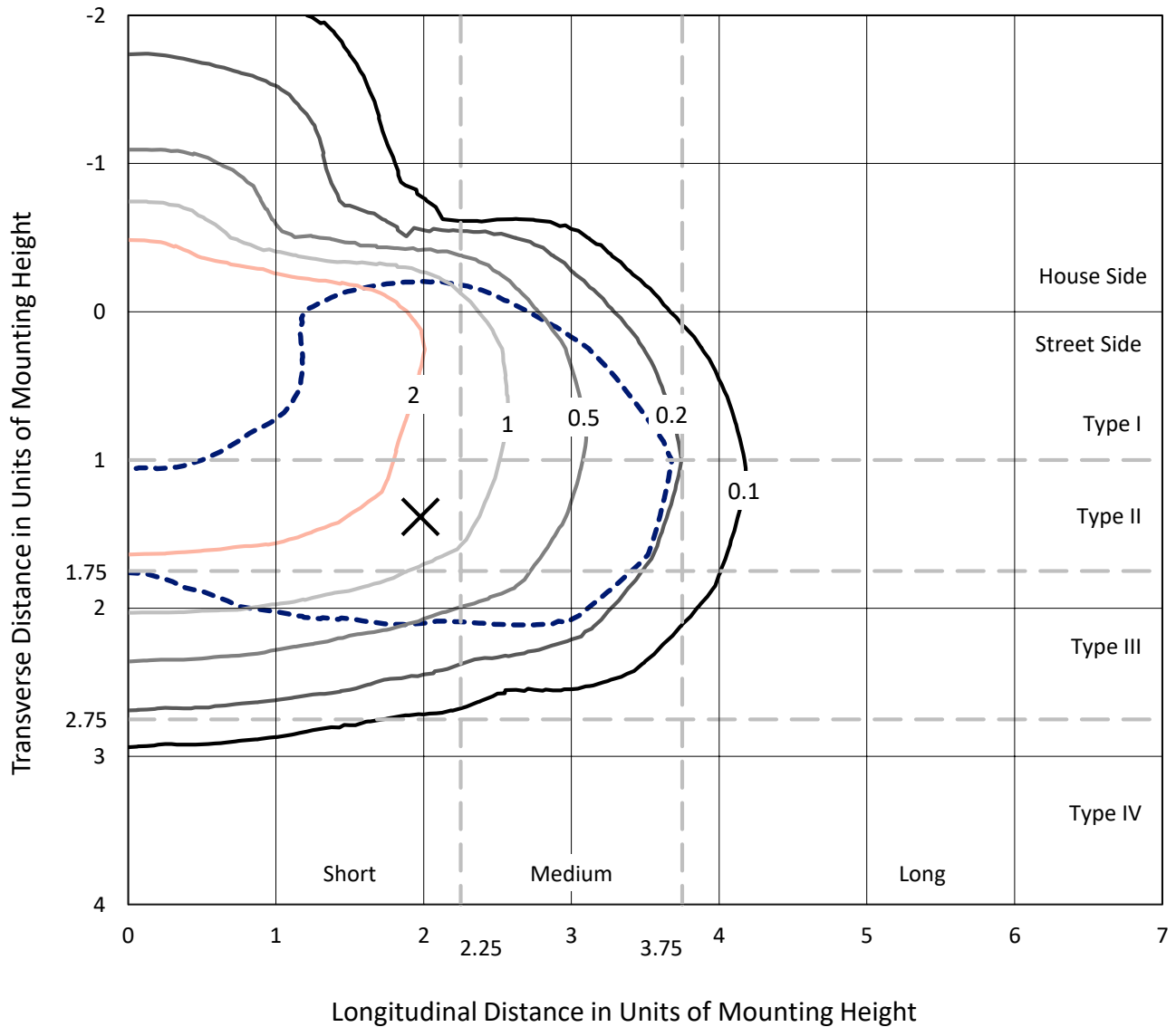


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

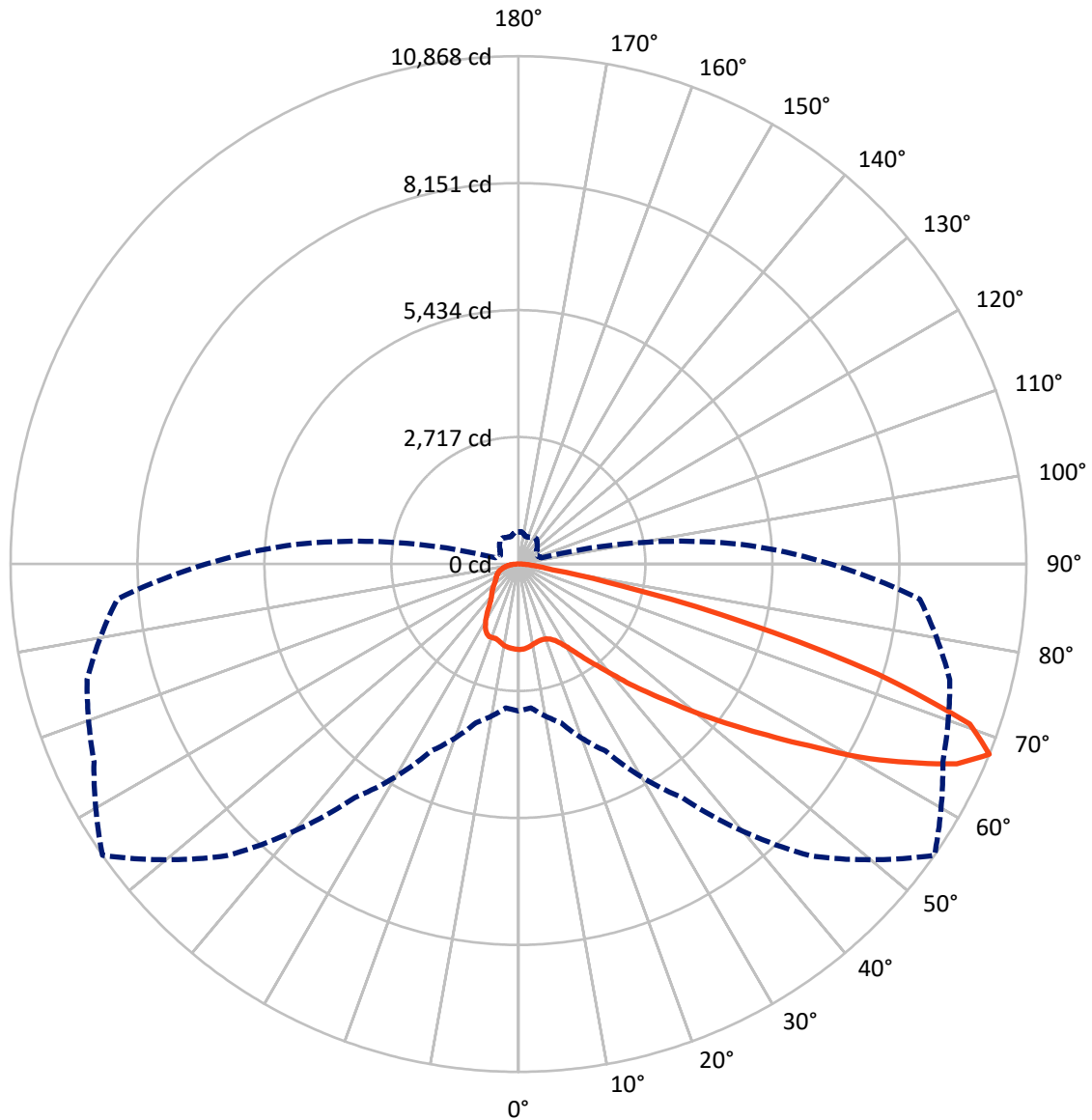


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Full Cutoff

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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	3204.0	0.0	3204.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11628.0	0.0	11628.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	14832.0	0.0	14832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.2
10°-20°	483.5	3.3
20°-30°	809.9	5.5
30°-40°	1331.8	9.0
40°-50°	2241.9	15.1
50°-60°	3528.5	23.8
60°-70°	4210.9	28.4
70°-80°	1808.2	12.2
80°-90°	246.5	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°	14832.0	100.0
0°-180°	14832.0	100.0



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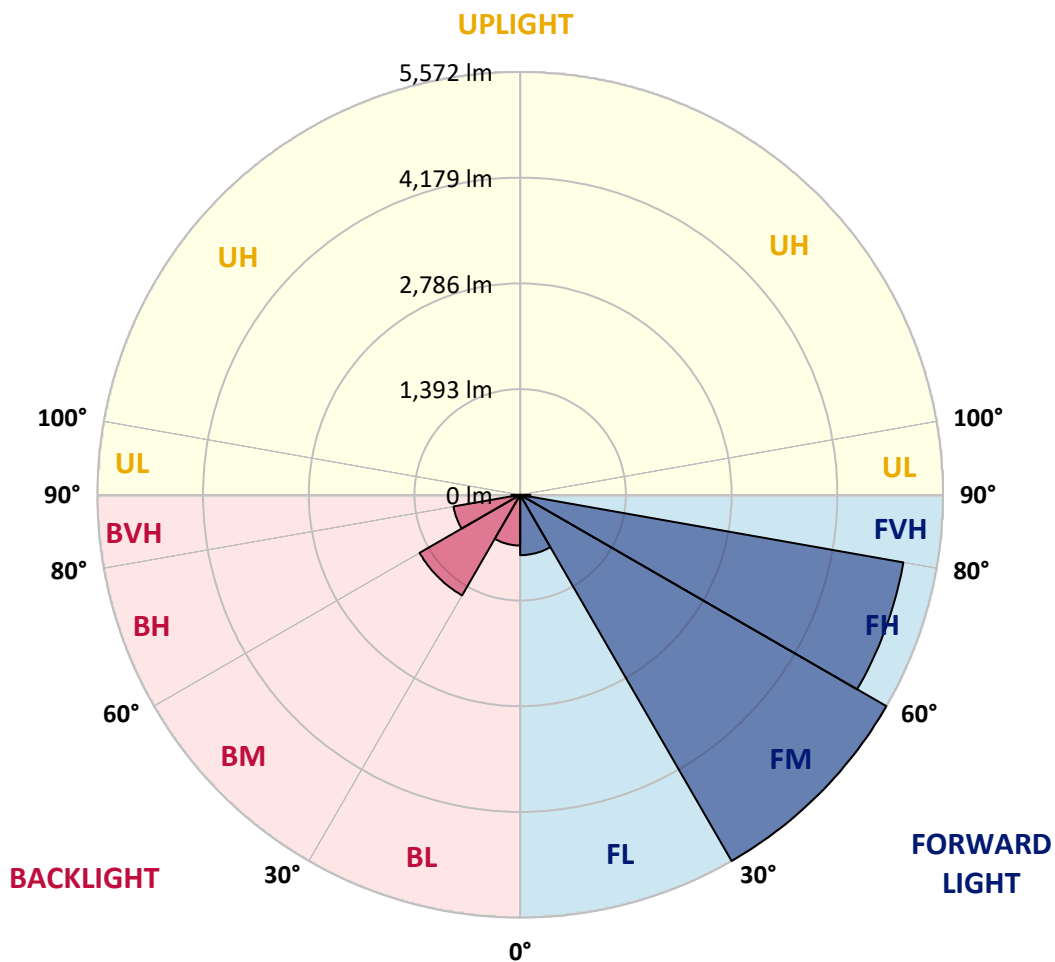
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.0	5.4			
FM (30°-60°)	5572.0	37.6			
FH (60°-80°)	5127.5	34.6			G3/7500
FVH (80°-90°)	133.5	0.9			G2/225
BL (0°-30°)	669.1	4.5	B2/1000		
BM (30°-60°)	1530.2	10.3	B2/2500		
BH (60°-80°)	891.7	6.0	B2/1000		G2/1000
BVH (80°-90°)	113.1	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°	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9
2.5°	1813.2	1813.9	1815.3	1821.1	1826.1	1824.6	1825.4	1822.5	1821.8	1817.5	1821.8
5°	1790.3	1792.4	1793.1	1802.4	1808.2	1809.6	1807.5	1803.9	1799.6	1795.3	1797.4
7.5°	1738.0	1743.7	1744.4	1757.3	1766.6	1778.8	1779.5	1780.2	1778.1	1775.2	1779.5
10°	1705.0	1706.4	1705.7	1715.0	1722.2	1735.8	1743.7	1757.3	1763.0	1764.5	1767.3
12.5°	1702.9	1701.4	1699.3	1699.3	1697.1	1702.9	1717.2	1736.5	1750.1	1754.4	1758.0
15°	1725.8	1725.1	1717.9	1707.2	1693.5	1689.3	1701.4	1722.9	1740.8	1750.1	1753.7
17.5°	1777.4	1773.1	1761.6	1737.2	1707.9	1696.4	1697.8	1715.8	1736.5	1748.7	1752.3
20°	1871.9	1871.9	1847.6	1801.7	1749.4	1722.2	1709.3	1720.1	1740.1	1756.6	1761.6
22.5°	2035.3	2036.7	1995.9	1920.6	1832.5	1774.5	1742.3	1740.1	1763.8	1782.4	1788.1
25°	2266.7	2260.9	2203.6	2096.2	1962.2	1866.2	1810.3	1797.4	1817.5	1838.3	1845.4
27.5°	2536.0	2515.3	2447.2	2317.5	2144.2	2003.7	1917.8	1897.0	1916.3	1940.0	1947.2
30°	2802.5	2781.0	2700.1	2558.2	2365.5	2187.9	2064.6	2031.0	2058.2	2091.9	2096.2
32.5°	3069.0	3069.0	2978.8	2813.3	2603.4	2407.8	2260.2	2220.1	2265.2	2306.1	2315.4
35°	3387.8	3389.2	3301.8	3102.7	2877.0	2670.0	2507.4	2478.0	2546.1	2574.7	2596.9
37.5°	3779.7	3787.6	3675.1	3434.4	3187.2	2969.4	2776.0	2735.9	2804.0	2882.0	2953.7
40°	4203.1	4213.1	4089.2	3792.6	3545.4	3317.6	3108.4	3036.1	3149.3	3298.3	3390.7
42.5°	4607.1	4658.7	4539.1	4233.9	3968.1	3732.4	3520.3	3415.0	3556.9	3781.8	3862.1
45°	5191.0	5228.2	5019.8	4743.2	4493.2	4229.6	3948.8	3837.7	4036.1	4319.8	4336.3
47.5°	5580.0	5552.0	5446.0	5274.1	5115.8	4869.3	4446.6	4324.9	4588.5	4922.3	4829.9
50°	5787.0	5795.6	5781.3	5791.3	5797.0	5642.3	5057.0	4890.1	5204.6	5607.9	5395.1
52.5°	5980.4	5923.1	5970.4	6205.4	6489.1	6431.8	5721.1	5547.0	5865.1	6368.7	5992.6
55°	5976.1	5888.7	6042.8	6457.6	7072.9	7138.8	6466.9	6266.3	6563.6	7184.7	6625.9
57.5°	5764.8	5769.1	6006.2	6549.3	7479.8	7803.7	7332.3	7031.4	7304.3	8011.4	7204.0
60°	5473.9	5513.3	5855.1	6534.2	7805.8	8348.8	8394.0	7855.9	8030.0	8762.9	7682.6
62.5°	5004.7	5046.3	5517.6	6378.0	7756.4	8873.9	9353.9	8791.6	8788.7	9218.5	7823.0
65°	4264.7	4252.5	4747.5	5794.2	7341.6	9262.2	10307.4	9600.4	9360.4	9225.7	7540.7
67.5°	3145.0	3090.5	3515.3	4413.0	6102.2	8827.4	10868.4	10021.6	9555.2	8618.9	6678.2
70°	1631.9	1577.5	1921.4	2576.9	4013.2	6889.5	10247.3	9803.8	9124.7	7224.8	5231.8
72.5°	697.8	688.5	828.1	1130.5	1941.4	3973.8	8035.0	8485.7	7829.4	5383.0	3597.0
75°	469.2	466.4	518.7	616.1	873.3	1612.6	5028.4	6023.4	5728.3	3337.7	2023.1
77.5°	368.2	364.6	395.4	442.7	565.9	636.2	2231.6	3233.8	2993.1	1452.8	885.5
80°	288.0	285.1	304.5	330.3	406.9	401.2	734.3	1286.6	995.8	556.6	430.6
82.5°	227.1	227.1	242.9	243.6	288.7	273.7	383.3	566.7	497.2	324.5	263.6
85°	207.8	207.8	224.2	182.0	188.4	172.7	237.8	336.0	315.2	133.2	114.6
87.5°	104.6	101.7	188.4	161.2	102.4	91.7	116.1	162.6	174.8	73.8	57.3
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°	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9
2.5°	1820.4	1819.6	1821.1	1821.8	1827.5	1835.4	1839.0	1844.0	1846.9	1845.4
5°	1798.9	1800.3	1806.0	1810.3	1820.4	1833.2	1840.4	1846.1	1851.2	1849.0
7.5°	1780.9	1784.5	1793.1	1796.7	1802.4	1806.0	1805.3	1807.5	1811.8	1806.7
10°	1770.9	1775.2	1781.7	1776.7	1763.0	1743.7	1725.8	1716.5	1719.3	1715.8
12.5°	1760.9	1766.6	1761.6	1738.0	1700.0	1674.9	1661.3	1662.7	1669.2	1670.6
15°	1755.2	1757.3	1735.8	1691.4	1652.7	1649.1	1656.3	1654.9	1655.6	1655.6
17.5°	1755.2	1749.4	1709.3	1664.9	1648.4	1642.0	1619.8	1591.8	1579.6	1575.3
20°	1764.5	1749.4	1700.7	1671.3	1635.5	1580.4	1521.6	1470.0	1447.1	1440.7
22.5°	1792.4	1766.6	1725.1	1674.2	1572.5	1480.1	1386.9	1325.3	1283.8	1276.6
25°	1849.0	1820.4	1773.1	1636.2	1472.2	1340.4	1234.3	1165.6	1124.0	1118.3
27.5°	1947.9	1929.2	1798.9	1552.4	1338.9	1197.8	1099.7	1046.6	1015.8	1013.7
30°	2096.9	2087.6	1786.0	1428.5	1174.9	1059.5	1012.3	981.5	958.5	957.8
32.5°	2334.7	2259.5	1743.7	1277.3	1025.2	961.4	942.1	923.4	905.5	905.5
35°	2640.6	2398.5	1663.5	1115.4	934.2	907.0	882.6	853.2	829.6	828.1
37.5°	3000.2	2484.4	1519.5	985.0	891.2	870.4	834.6	790.9	749.3	742.2
40°	3363.5	2510.2	1316.7	904.8	864.0	833.9	790.2	738.6	698.5	696.3
42.5°	3696.6	2460.8	1101.8	849.6	836.7	796.6	750.8	704.9	673.4	672.7
45°	3976.0	2332.6	921.3	797.3	808.1	763.0	722.1	684.9	660.5	655.5
47.5°	4238.9	2151.3	794.5	742.2	779.4	744.3	709.9	674.8	651.2	647.6
50°	4544.1	1955.7	705.6	688.5	754.4	737.9	720.0	683.4	644.0	639.7
52.5°	4913.7	1786.7	636.2	641.2	735.0	746.5	745.8	707.8	639.0	633.3
55°	5326.4	1599.0	583.9	602.5	727.1	762.2	752.2	730.7	643.3	634.7
57.5°	5732.6	1379.8	547.3	573.1	715.7	760.8	721.4	690.6	653.3	641.2
60°	6037.0	1085.3	519.4	547.3	690.6	737.2	687.7	646.9	651.2	641.9
62.5°	6057.1	838.9	485.7	525.1	652.6	713.5	665.5	627.6	660.5	651.9
65°	5701.0	634.0	453.5	498.6	611.8	698.5	644.0	616.8	679.9	670.5
67.5°	4799.8	510.1	426.3	471.4	571.0	667.0	624.7	606.8	697.0	680.6
70°	3465.2	434.8	399.7	438.4	534.4	631.1	607.5	588.9	650.5	624.7
72.5°	2133.4	376.8	369.7	394.7	506.5	593.9	581.7	555.2	586.0	565.2
75°	1065.3	326.7	336.0	351.7	467.1	551.6	538.7	512.2	516.5	512.2
77.5°	510.1	279.4	296.6	308.8	416.2	503.6	490.0	462.8	457.8	458.5
80°	323.1	233.5	250.0	258.6	371.8	447.7	434.1	406.9	464.2	430.6
82.5°	202.0	189.8	194.1	209.9	323.8	389.7	371.8	347.4	418.4	331.0
85°	111.8	132.5	138.3	151.9	249.3	326.0	308.0	277.2	248.6	244.3
87.5°	66.6	78.8	81.0	91.0	167.6	235.7	208.5	197.7	164.1	163.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)