

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: P191441

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191441  
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-T3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15022 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

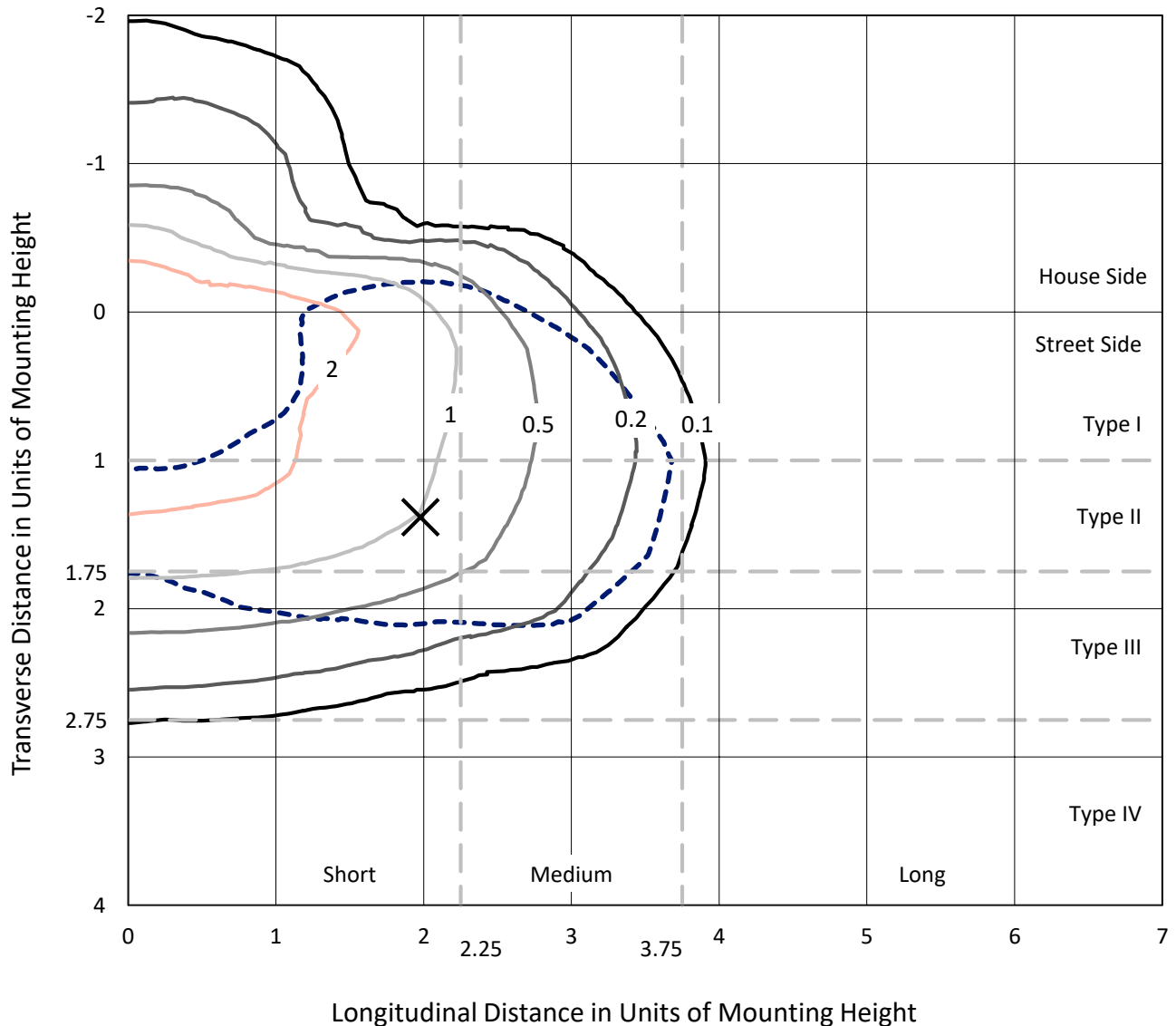
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

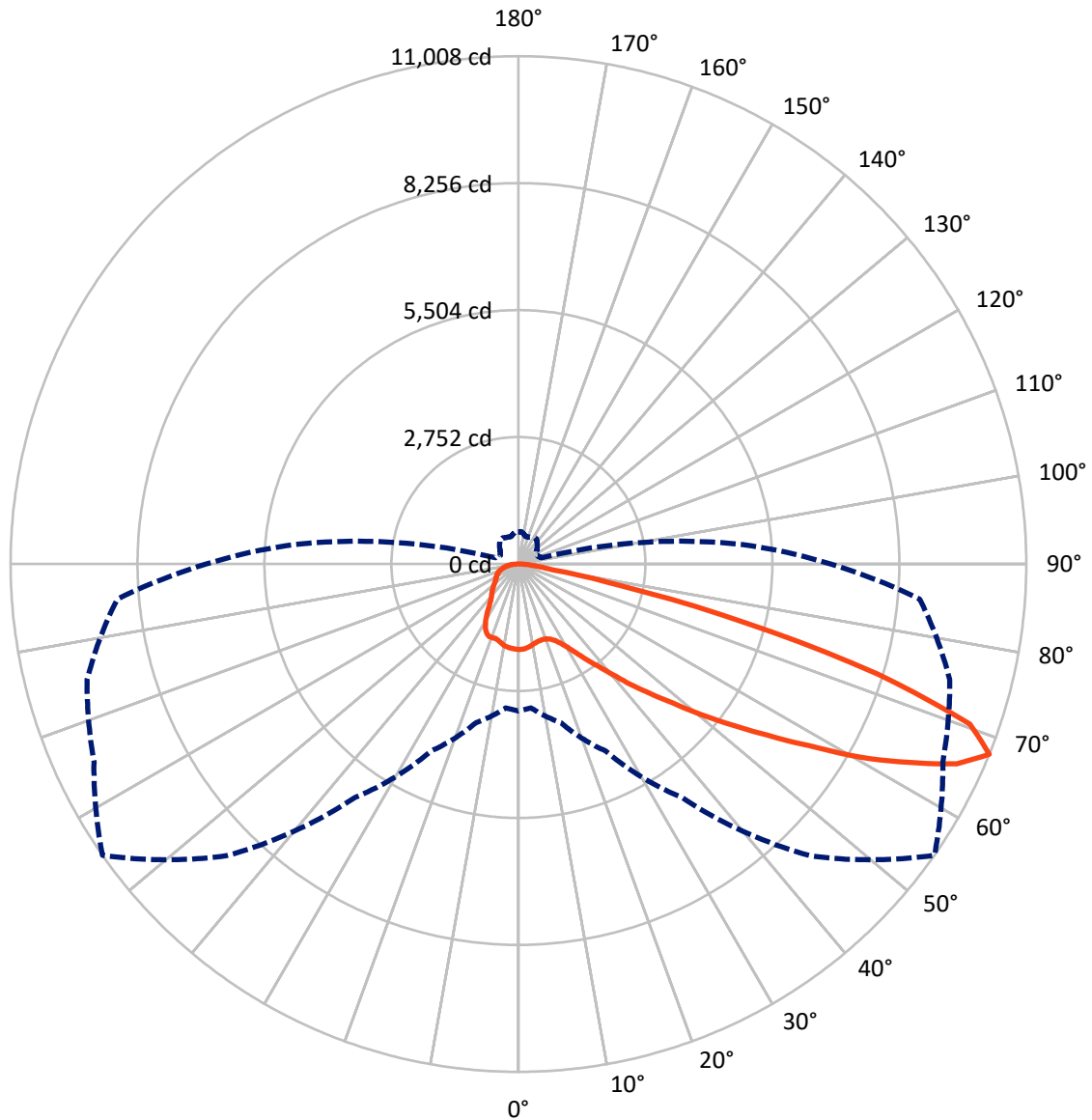
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3245.1	0.0	3245.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11776.9	0.0	11776.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	15022.0	0.0	15022.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	1.2
10°-20°	489.7	3.3
20°-30°	820.3	5.5
30°-40°	1348.9	9.0
40°-50°	2270.6	15.1
50°-60°	3573.7	23.8
60°-70°	4264.9	28.4
70°-80°	1831.4	12.2
80°-90°	249.7	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°	15022.0	100.0
0°-180°	15022.0	100.0



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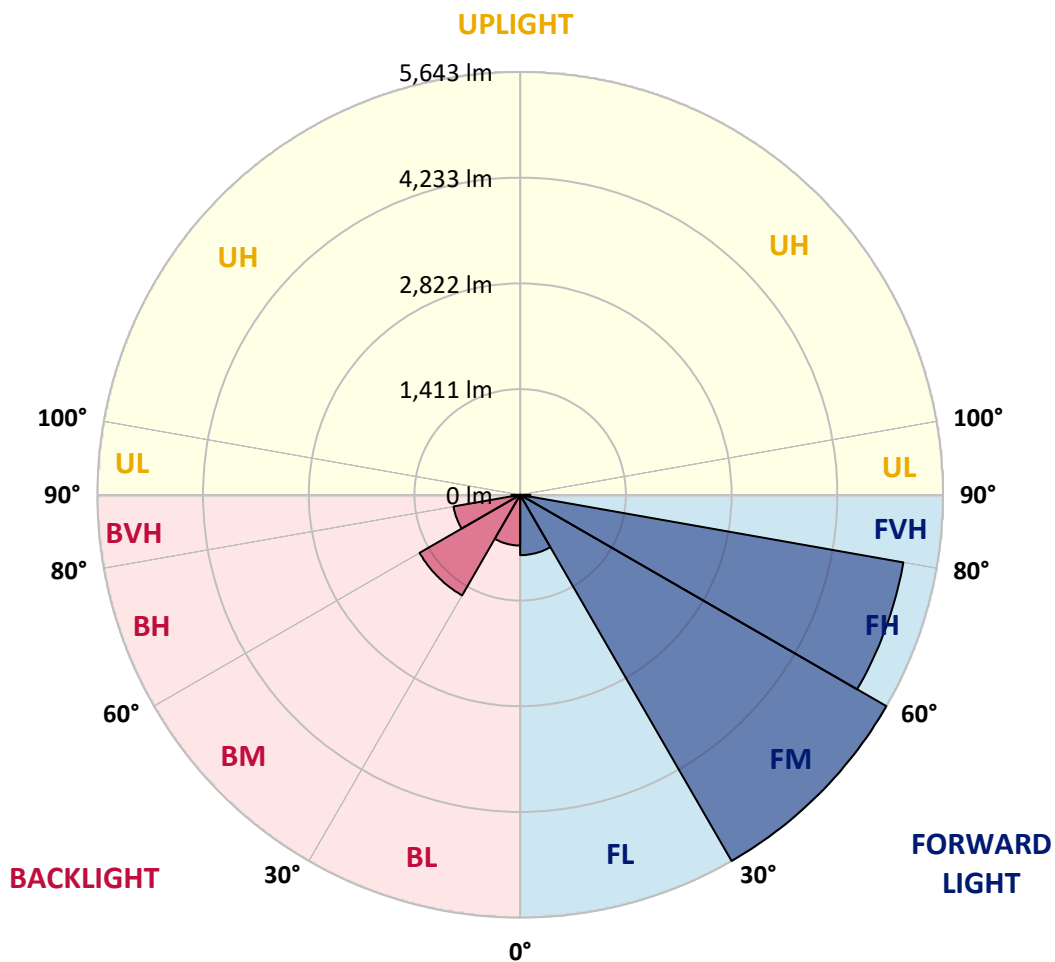
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.2	5.4			
FM	(30°-60°)	5643.4	37.6			
FH	(60°-80°)	5193.2	34.6			G3/7500
FVH	(80°-90°)	135.2	0.9			G2/225
BL	(0°-30°)	677.6	4.5	B2/1000		
BM	(30°-60°)	1549.8	10.3	B2/2500		
BH	(60°-80°)	903.1	6.0	B2/1000		G2/1000
BVH	(80°-90°)	114.5	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°	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4
2.5°	1836.4	1837.1	1838.5	1844.4	1849.5	1848.1	1848.8	1845.8	1845.1	1840.8	1845.1
5°	1813.2	1815.3	1816.1	1825.6	1831.4	1832.8	1830.6	1827.0	1822.6	1818.3	1820.4
7.5°	1760.2	1766.0	1766.7	1779.8	1789.2	1801.6	1802.3	1803.1	1800.9	1797.9	1802.3
10°	1726.8	1728.3	1727.6	1737.0	1744.2	1758.0	1766.0	1779.8	1785.7	1787.1	1790.0
12.5°	1724.7	1723.3	1721.0	1721.0	1718.9	1724.7	1739.2	1758.8	1772.6	1777.0	1780.5
15°	1747.9	1747.2	1739.9	1729.0	1715.3	1710.9	1723.3	1744.9	1763.2	1772.6	1776.1
17.5°	1800.2	1795.8	1784.1	1759.5	1729.8	1718.1	1719.6	1737.8	1758.8	1771.1	1774.7
20°	1895.9	1895.9	1871.3	1824.8	1771.9	1744.2	1731.2	1742.1	1762.4	1779.1	1784.1
22.5°	2061.3	2062.8	2021.5	1945.2	1856.0	1797.2	1764.6	1762.4	1786.4	1805.2	1811.0
25°	2295.7	2289.9	2231.9	2123.0	1987.3	1890.1	1833.5	1820.4	1840.8	1861.8	1869.0
27.5°	2568.5	2547.5	2478.5	2347.3	2171.6	2029.4	1942.4	1921.3	1940.9	1964.9	1972.1
30°	2838.4	2816.7	2734.7	2591.0	2395.9	2215.9	2091.1	2056.9	2084.6	2118.6	2123.0
32.5°	3108.3	3108.3	3016.9	2849.3	2636.8	2438.6	2289.2	2248.5	2294.3	2335.6	2345.0
35°	3431.2	3432.7	3344.1	3142.4	2913.9	2704.2	2539.5	2509.7	2578.7	2607.7	2630.2
37.5°	3828.1	3836.1	3722.2	3478.3	3228.0	3007.5	2811.6	2771.0	2839.9	2919.0	2991.5
40°	4256.9	4267.0	4141.5	3841.2	3590.9	3360.1	3148.2	3075.0	3189.6	3340.5	3434.1
42.5°	4666.2	4718.4	4597.2	4288.1	4019.0	3780.2	3565.5	3458.8	3602.4	3830.2	3911.6
45°	5257.5	5295.2	5084.1	4804.0	4550.8	4283.8	3999.3	3886.9	4087.8	4375.2	4391.8
47.5°	5651.5	5623.2	5515.8	5341.6	5181.2	4931.7	4503.6	4380.3	4647.3	4985.4	4891.8
50°	5861.2	5869.9	5855.4	5865.5	5871.3	5714.6	5121.8	4952.7	5271.3	5679.7	5464.3
52.5°	6057.1	5999.0	6046.9	6284.9	6572.3	6514.2	5794.4	5618.0	5940.3	6450.3	6069.4
55°	6052.7	5964.2	6120.2	6540.3	7163.5	7230.3	6549.7	6346.6	6647.6	7276.8	6710.8
57.5°	5838.7	5843.0	6083.2	6633.1	7575.7	7903.6	7426.2	7121.5	7397.9	8114.0	7296.3
60°	5544.1	5584.0	5930.0	6617.9	7905.8	8455.8	8501.5	7956.6	8132.9	8875.2	7781.0
62.5°	5068.8	5110.9	5588.4	6459.7	7855.8	8987.6	9473.8	8904.2	8901.3	9336.7	7923.3
65°	4319.3	4307.0	4808.4	5868.4	7435.6	9380.9	10439.5	9723.4	9480.3	9343.9	7637.4
67.5°	3185.3	3130.1	3560.4	4469.5	6180.4	8940.5	11007.7	10150.0	9677.6	8729.4	6763.8
70°	1652.9	1597.7	1946.0	2609.9	4064.7	6977.9	10378.6	9929.5	9241.5	7317.4	5298.9
72.5°	706.7	697.2	838.7	1145.0	1966.3	4024.7	8138.0	8594.4	7929.7	5451.9	3643.1
75°	475.3	472.3	525.3	624.0	884.4	1633.2	5092.8	6100.6	5801.7	3380.4	2049.0
77.5°	373.0	369.3	400.5	448.4	573.2	644.4	2260.1	3275.2	3031.4	1471.4	896.8
80°	291.6	288.8	308.3	334.5	412.1	406.3	743.7	1303.1	1008.5	563.7	436.1
82.5°	230.0	230.0	245.9	246.7	292.4	277.1	388.2	573.9	503.5	328.7	267.0
85°	210.4	210.4	227.1	184.3	190.8	174.8	240.9	340.3	319.3	134.9	116.1
87.5°	106.0	103.0	190.8	163.3	103.7	92.9	117.5	164.7	177.1	74.8	58.0
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°	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4	1852.4
2.5°	1843.7	1842.9	1844.4	1845.1	1850.9	1858.9	1862.6	1867.6	1870.6	1869.0
5°	1821.9	1823.3	1829.1	1833.5	1843.7	1856.8	1864.0	1869.7	1874.9	1872.7
7.5°	1803.8	1807.3	1816.1	1819.7	1825.6	1829.1	1828.4	1830.6	1835.0	1829.9
10°	1793.6	1797.9	1804.5	1799.4	1785.7	1766.0	1747.9	1738.5	1741.4	1737.8
12.5°	1783.4	1789.2	1784.1	1760.2	1721.7	1696.4	1682.5	1684.1	1690.5	1692.1
15°	1777.7	1779.8	1758.0	1713.0	1673.9	1670.3	1677.5	1676.1	1676.8	1676.8
17.5°	1777.7	1771.9	1731.2	1686.2	1669.6	1663.0	1640.5	1612.2	1599.9	1595.5
20°	1787.1	1771.9	1722.5	1692.8	1656.5	1600.6	1541.1	1488.9	1465.7	1459.1
22.5°	1815.3	1789.2	1747.2	1695.6	1592.6	1499.0	1404.7	1342.3	1300.3	1293.0
25°	1872.7	1843.7	1795.8	1657.2	1491.1	1357.6	1250.1	1180.5	1138.4	1132.6
27.5°	1972.9	1953.9	1821.9	1572.3	1356.1	1213.1	1113.8	1060.1	1028.9	1026.6
30°	2123.7	2114.3	1808.9	1446.8	1189.9	1073.1	1025.2	994.0	970.8	970.1
32.5°	2364.7	2288.4	1766.0	1293.7	1038.3	973.7	954.1	935.3	917.1	917.1
35°	2674.4	2429.2	1684.8	1129.7	946.1	918.6	893.9	864.2	840.3	838.7
37.5°	3038.7	2516.3	1538.9	997.7	902.7	881.6	845.3	801.1	758.9	751.7
40°	3406.5	2542.4	1333.6	916.4	875.0	844.5	800.3	748.1	707.5	705.2
42.5°	3743.9	2492.3	1115.9	860.5	847.5	806.8	760.4	713.9	682.0	681.3
45°	4026.9	2362.5	933.0	807.5	818.5	772.7	731.4	693.7	669.0	663.9
47.5°	4293.2	2178.9	804.7	751.7	789.4	753.9	719.0	683.5	659.5	655.9
50°	4602.3	1980.8	714.7	697.2	764.0	747.4	729.2	692.2	652.3	647.9
52.5°	4976.7	1809.6	644.4	649.4	744.4	756.1	755.3	716.9	647.2	641.4
55°	5394.6	1619.4	591.4	610.2	736.4	772.0	761.9	740.1	651.5	642.8
57.5°	5806.0	1397.5	554.3	580.4	724.9	770.6	730.7	699.5	661.7	649.4
60°	6114.4	1099.3	526.0	554.3	699.5	746.7	696.5	655.2	659.5	650.1
62.5°	6134.7	849.7	491.9	531.8	661.0	722.7	674.0	635.6	669.0	660.3
65°	5774.0	642.1	459.3	505.0	619.6	707.5	652.3	624.7	688.5	679.1
67.5°	4861.4	516.6	431.7	477.4	578.3	675.6	632.7	614.6	705.9	689.3
70°	3509.5	440.4	404.9	444.1	541.2	639.2	615.3	596.4	658.8	632.7
72.5°	2160.8	381.7	374.4	399.8	513.0	601.5	589.1	562.3	593.5	572.4
75°	1078.9	330.8	340.3	356.3	473.1	558.7	545.6	518.7	523.1	518.7
77.5°	516.6	282.9	300.3	312.7	421.6	510.0	496.3	468.7	463.6	464.3
80°	327.2	236.5	253.2	262.0	376.5	453.5	439.7	412.1	470.1	436.1
82.5°	204.6	192.3	196.6	212.6	328.0	394.8	376.5	351.9	423.7	335.2
85°	113.1	134.2	140.0	153.9	252.5	330.1	312.0	280.8	251.7	247.5
87.5°	67.5	79.8	81.9	92.2	169.8	238.8	211.1	200.3	166.1	165.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)