

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: P192361

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14579 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-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

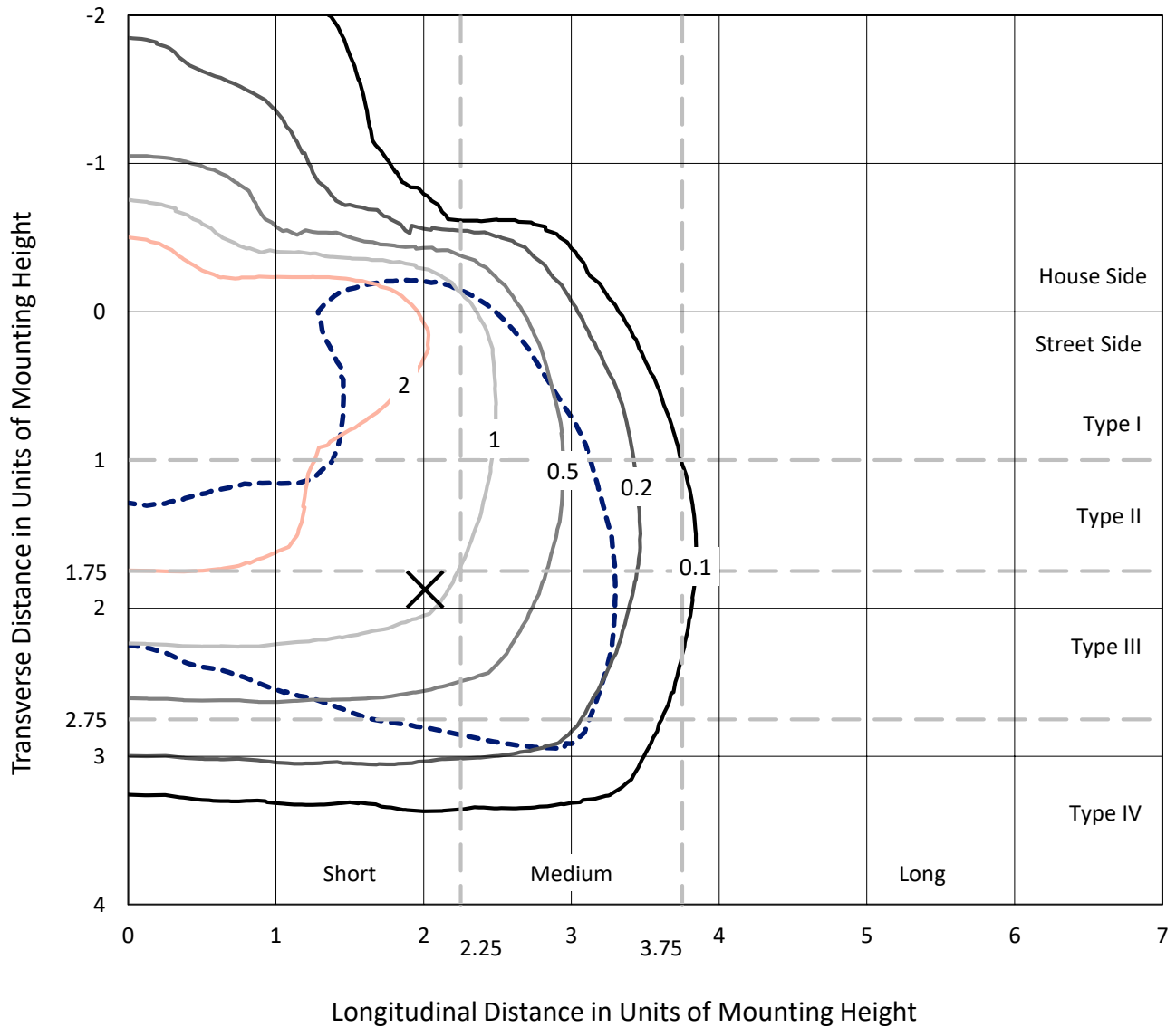


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

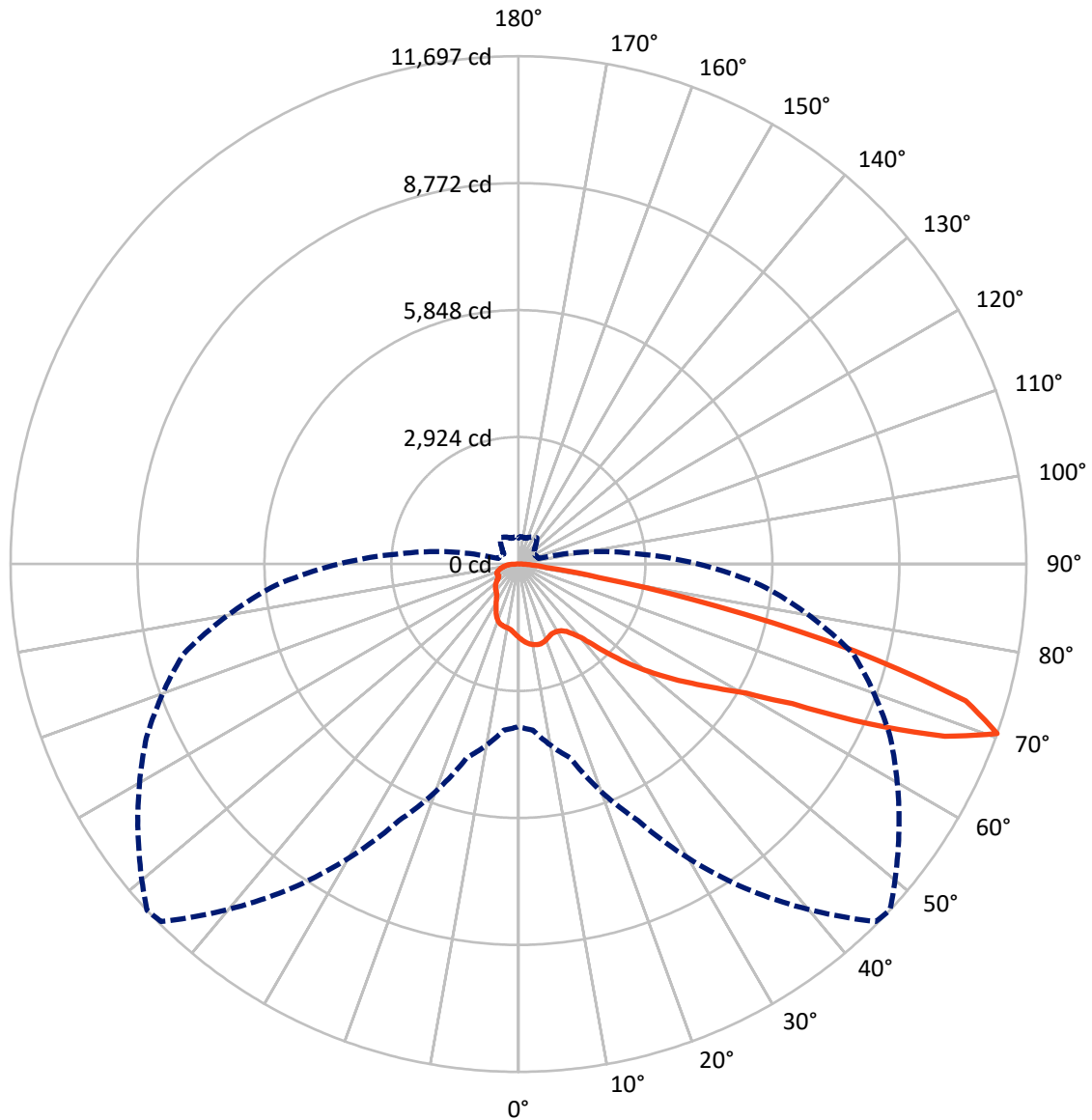


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3041.5	0.0	3041.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	11537.5	0.0	11537.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	14579.0	0.0	14579.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	1.1
10°-20°	475.5	3.3
20°-30°	702.2	4.8
30°-40°	1020.6	7.0
40°-50°	1836.8	12.6
50°-60°	3182.1	21.8
60°-70°	4541.8	31.2
70°-80°	2331.5	16.0
80°-90°	326.4	2.2
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°	14579.0	100.0
0°-180°	14579.0	100.0



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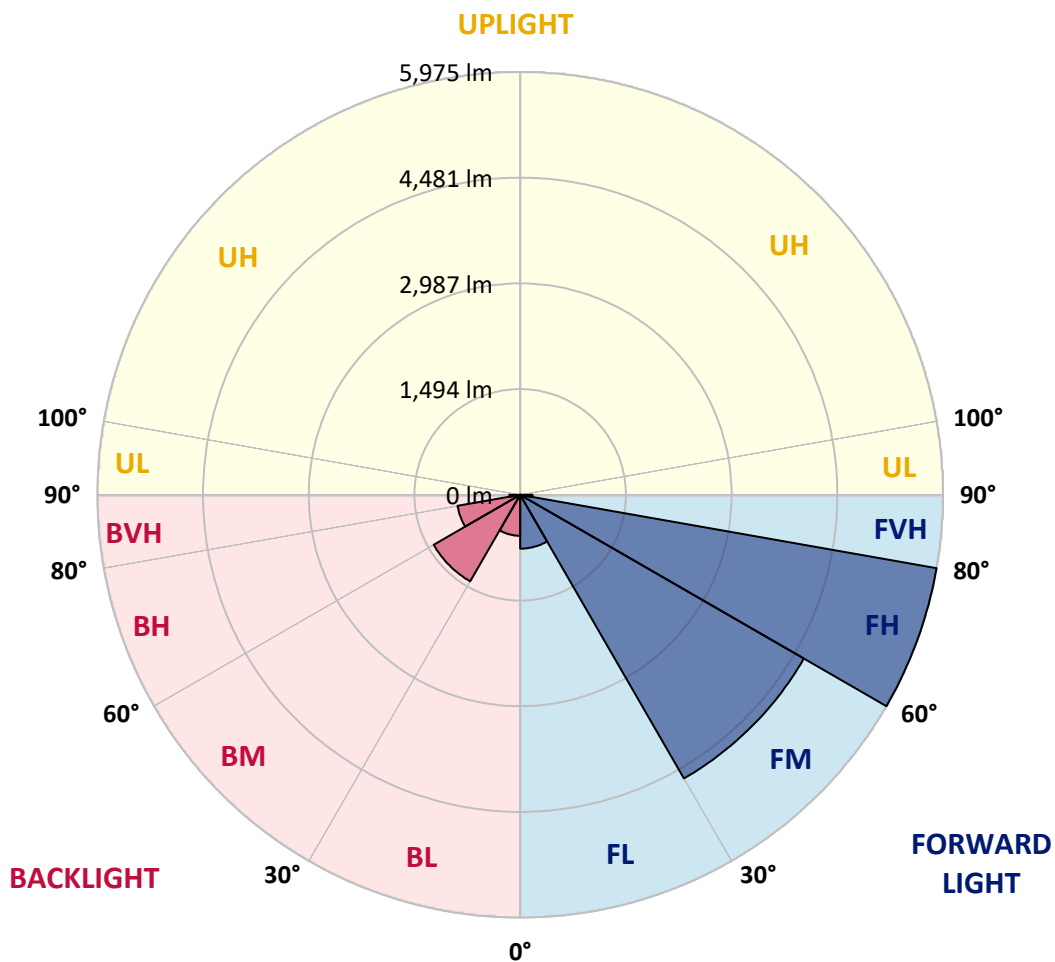
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.7	5.2			
FM	(30°-60°)	4627.8	31.7			
FH	(60°-80°)	5974.9	41.0			G3/7500
FVH	(80°-90°)	174.2	1.2			G2/225
BL	(0°-30°)	579.1	4.0	B2/1000		
BM	(30°-60°)	1411.8	9.7	B2/2500		
BH	(60°-80°)	898.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	152.2	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6
2.5°	1790.9	1787.4	1786.0	1783.1	1779.6	1761.8	1758.3	1745.5	1727.8	1709.3	1690.2
5°	1908.7	1907.9	1900.1	1886.0	1863.3	1824.3	1815.0	1783.8	1742.0	1701.5	1661.1
7.5°	2012.2	2005.8	1990.9	1962.6	1922.8	1869.6	1856.9	1813.6	1756.2	1700.8	1646.2
10°	2088.1	2084.6	2051.9	2012.9	1961.1	1902.3	1887.4	1839.1	1776.0	1705.8	1637.7
12.5°	2131.4	2124.3	2086.7	2039.9	1978.2	1920.7	1905.8	1856.9	1786.0	1705.8	1625.7
15°	2128.5	2123.6	2086.0	2034.9	1972.5	1922.1	1908.7	1859.7	1783.8	1698.7	1610.1
17.5°	2071.8	2073.9	2042.0	1991.6	1940.6	1902.3	1890.2	1844.8	1769.6	1684.5	1591.6
20°	1972.5	1982.4	1961.1	1916.5	1888.1	1861.8	1854.0	1815.7	1747.7	1664.0	1571.8
22.5°	1873.2	1882.4	1873.9	1836.3	1832.1	1816.5	1812.2	1784.5	1728.5	1651.2	1559.7
25°	1800.1	1808.6	1807.2	1774.6	1787.4	1786.7	1783.1	1769.6	1724.2	1651.2	1561.8
27.5°	1780.3	1783.1	1780.3	1750.5	1768.2	1782.4	1779.6	1777.4	1737.0	1671.8	1588.8
30°	1848.4	1844.1	1822.1	1761.8	1778.1	1798.0	1795.2	1796.6	1775.3	1725.7	1649.1
32.5°	2120.0	2100.9	2031.4	1861.8	1818.6	1829.2	1830.6	1854.0	1857.6	1808.6	1742.7
35°	2526.4	2505.2	2415.1	2129.9	1944.1	1907.2	1907.2	1942.7	1964.0	1927.8	1888.1
37.5°	2957.0	2933.6	2885.3	2501.6	2208.0	2042.7	2039.2	2064.0	2094.5	2103.0	2112.9
40°	3446.4	3421.5	3435.0	2918.7	2576.1	2277.5	2227.1	2209.4	2291.7	2346.3	2425.7
42.5°	3981.9	3970.5	3975.5	3383.2	2995.3	2628.6	2556.9	2465.4	2564.7	2661.9	2828.6
45°	4477.6	4487.6	4482.6	3880.4	3462.0	3057.0	2981.1	2803.8	2900.9	3067.6	3339.3
47.5°	4911.7	4870.6	4934.4	4423.7	3984.7	3536.4	3442.8	3205.2	3303.8	3509.5	3969.1
50°	5438.7	5433.0	5339.4	5148.6	4616.7	4018.0	3895.3	3620.1	3773.3	4059.2	4762.8
52.5°	5992.7	5889.8	5804.0	5712.5	5286.9	4511.7	4361.3	4033.6	4325.2	4684.8	5730.2
55°	6106.1	6060.0	6166.4	6320.3	5933.1	5024.5	4849.3	4552.1	4946.5	5399.7	6845.9
57.5°	6348.7	6348.0	6567.9	6842.4	6598.4	5568.5	5391.9	5178.4	5645.1	6218.9	8030.4
60°	6512.6	6558.7	6967.2	7499.9	7251.6	6196.9	6034.5	5901.2	6439.5	7134.6	9134.0
62.5°	6598.4	6660.8	7218.3	7766.5	8175.1	7243.1	7080.7	6888.5	7490.6	8138.9	9779.5
65°	6241.6	6364.3	7179.3	7997.1	8983.7	8939.0	8865.9	8528.3	8804.9	8932.6	9546.1
67.5°	5254.3	5379.8	6328.8	7782.2	9561.0	10574.6	10590.2	10013.5	9613.5	9000.7	8026.1
70°	3743.5	3842.1	4627.3	6524.6	9121.3	11643.4	11696.6	10698.0	9452.5	7982.2	5607.5
72.5°	1777.4	1837.7	2581.0	4246.4	7238.1	10668.2	10771.0	9824.2	8037.5	5909.7	3059.1
75°	653.2	671.7	872.4	1806.5	4198.2	7867.3	7988.6	7042.4	5328.1	2942.1	1165.3
77.5°	391.5	403.6	489.4	762.5	1651.2	4496.8	4676.2	3830.1	2328.5	1095.1	573.1
80°	273.8	282.3	351.1	474.5	780.2	1713.6	1873.2	1563.2	927.7	693.0	417.1
82.5°	185.1	189.4	246.8	320.6	518.5	612.1	660.3	695.1	625.6	515.6	264.6
85°	121.3	125.5	167.4	211.4	329.8	316.3	323.4	409.3	456.8	350.4	146.8
87.5°	69.5	72.3	100.7	112.8	161.7	134.1	135.5	215.6	292.2	236.2	89.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6	1691.6
2.5°	1685.2	1676.0	1655.4	1642.7	1630.6	1627.8	1622.8	1622.1	1621.4	1621.4	1619.3
5°	1647.6	1632.0	1600.1	1582.4	1567.5	1566.1	1565.4	1568.9	1570.3	1571.8	1569.6
7.5°	1623.5	1602.2	1562.5	1537.0	1519.3	1515.0	1522.1	1538.4	1549.1	1553.3	1551.2
10°	1608.6	1582.4	1536.3	1508.6	1493.7	1491.6	1500.8	1520.0	1542.0	1550.5	1549.8
12.5°	1591.6	1561.8	1512.9	1483.8	1475.3	1479.5	1491.6	1509.3	1532.0	1545.5	1546.2
15°	1574.6	1539.8	1489.5	1463.9	1460.4	1466.1	1477.4	1490.9	1508.6	1522.1	1523.5
17.5°	1554.0	1517.8	1467.5	1441.2	1438.4	1441.2	1442.0	1449.0	1460.4	1473.2	1476.7
20°	1532.0	1495.1	1442.7	1416.4	1403.7	1392.3	1379.5	1381.0	1384.5	1397.3	1400.1
22.5°	1516.4	1479.5	1423.5	1387.3	1353.3	1319.2	1293.7	1290.2	1291.6	1302.2	1305.8
25°	1517.8	1478.8	1418.5	1356.1	1281.7	1227.0	1193.0	1187.3	1186.6	1194.4	1199.4
27.5°	1545.5	1506.5	1437.0	1324.2	1203.6	1122.8	1086.6	1082.4	1076.7	1078.8	1084.5
30°	1607.2	1571.0	1481.7	1291.6	1119.2	1020.6	983.1	978.8	971.0	967.4	971.7
32.5°	1707.9	1678.1	1546.9	1260.4	1034.8	933.4	895.1	885.9	880.9	876.7	880.2
35°	1875.3	1862.6	1634.2	1226.3	960.4	866.0	831.3	817.1	810.0	817.8	823.5
37.5°	2137.8	2144.8	1748.4	1173.1	902.9	821.3	792.3	775.9	765.3	771.7	778.1
40°	2509.4	2514.4	1874.6	1098.0	853.3	795.1	763.9	749.0	734.1	722.7	722.0
42.5°	2997.4	2947.0	1998.7	1016.4	795.8	778.8	744.0	725.6	702.9	671.7	665.3
45°	3576.2	3399.5	2093.1	922.8	731.3	758.9	722.0	696.5	661.0	627.0	623.5
47.5°	4242.9	3885.4	2139.2	825.6	671.0	729.8	695.1	654.7	610.0	593.0	590.8
50°	5057.1	4462.0	2161.2	731.3	618.5	691.5	656.1	608.6	571.0	567.4	565.3
52.5°	5984.1	5155.7	2168.2	654.0	575.2	641.9	624.2	578.1	548.3	551.1	551.1
55°	6954.4	5872.1	2071.8	597.9	535.5	590.8	602.9	566.0	541.2	552.5	556.8
57.5°	7845.3	6506.9	1768.2	554.7	497.9	551.8	595.1	577.3	560.3	606.4	609.3
60°	8529.0	6882.1	1320.7	515.6	470.2	538.3	615.6	620.6	624.9	734.8	749.7
62.5°	8672.3	6757.3	907.9	485.1	457.5	549.7	653.2	654.0	649.0	725.6	734.8
65°	8014.8	5967.8	660.3	468.1	446.8	570.3	685.2	670.3	637.6	695.8	678.8
67.5°	6365.0	4496.1	549.7	455.4	431.2	568.8	719.2	685.2	631.3	681.6	654.0
70°	4131.5	2718.6	489.4	444.7	412.8	541.9	739.1	683.7	612.8	634.1	601.5
72.5°	2015.8	1215.7	449.0	429.1	393.6	504.3	738.4	671.0	593.7	592.2	574.5
75°	788.7	556.8	412.1	405.7	361.0	461.7	718.5	652.5	571.0	548.3	541.9
77.5°	461.7	397.2	365.3	371.0	322.0	419.2	689.4	620.6	539.8	512.8	505.7
80°	336.2	297.2	311.4	320.6	275.2	376.6	650.4	581.6	505.0	518.5	508.5
82.5°	215.6	191.5	252.5	261.7	229.1	333.4	607.8	540.5	456.1	414.2	404.3
85°	109.9	121.3	188.0	199.3	176.6	273.8	556.1	485.9	400.7	344.7	350.4
87.5°	61.7	83.0	119.9	134.1	124.8	210.7	451.1	400.7	327.0	266.0	234.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)