

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: P192352

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192352  
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-04-LED-E1-T4W-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15710 lumens  
Efficiency: N/A  
Efficacy: 121.8 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): 129  
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

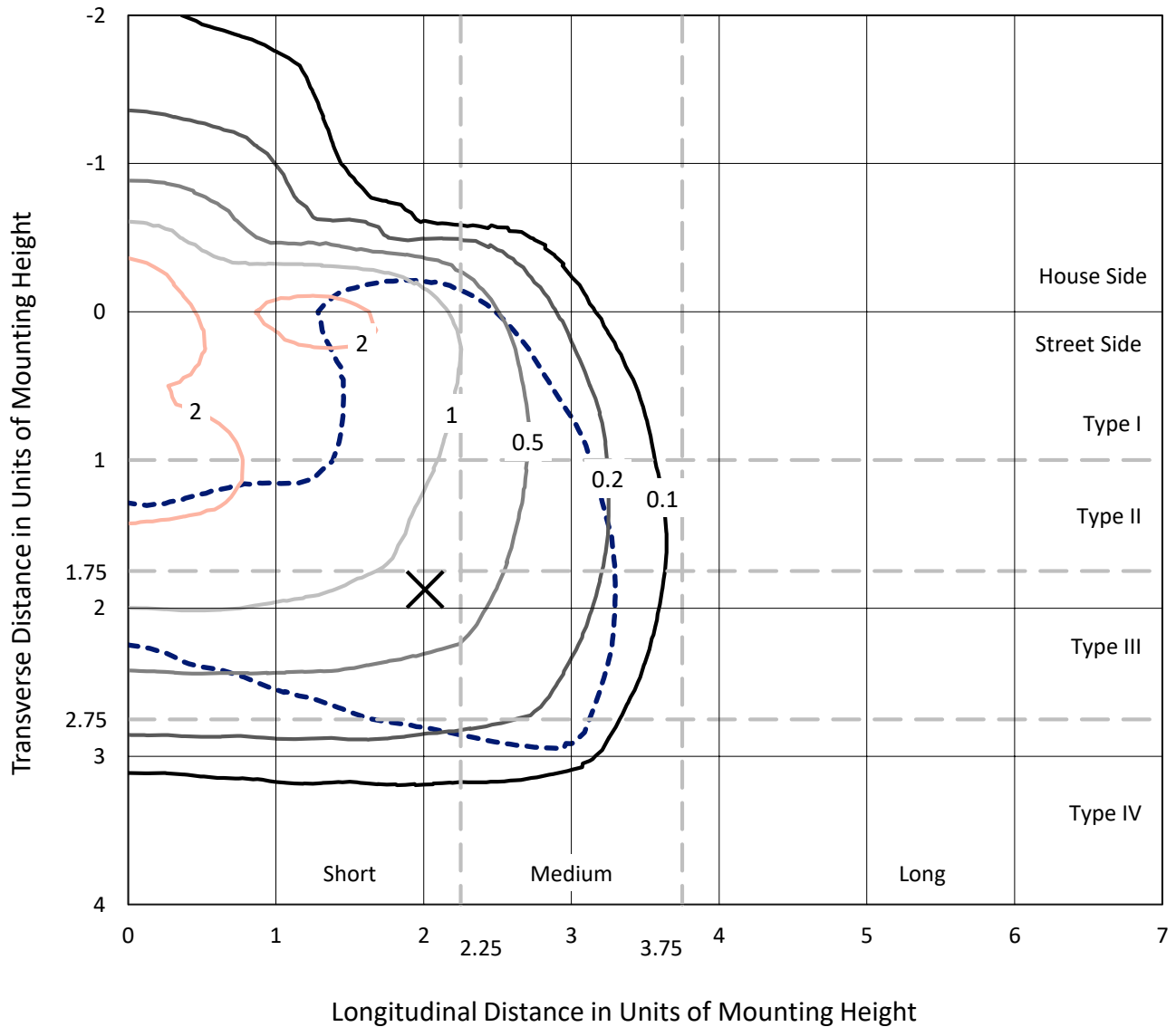


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

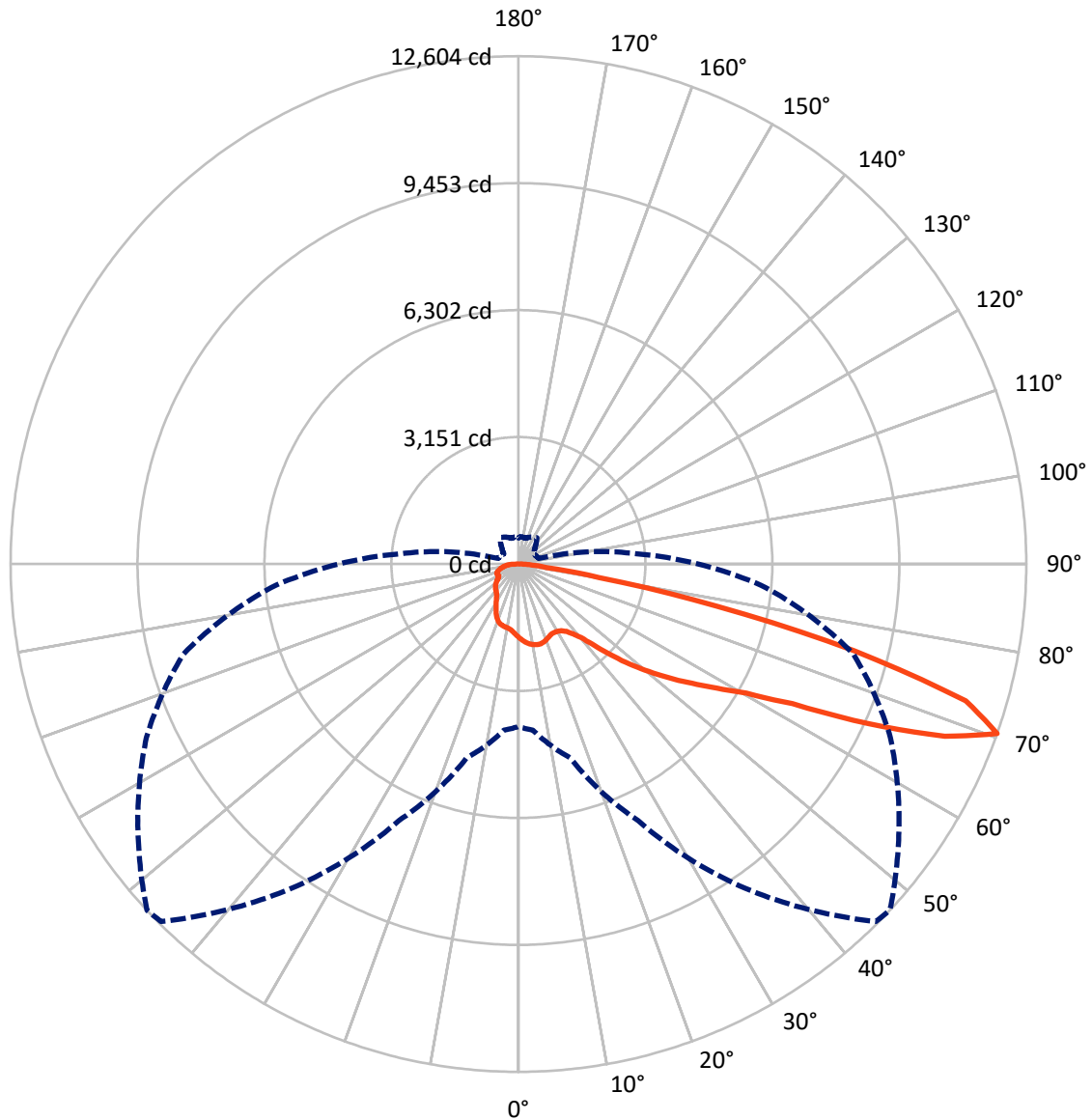


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - Semi-Cutoff

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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	3277.4	0.0	3277.4
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	12432.6	0.0	12432.6
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	15710.0	0.0	15710.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	1.1
10°-20°	512.4	3.3
20°-30°	756.7	4.8
30°-40°	1099.8	7.0
40°-50°	1979.3	12.6
50°-60°	3428.9	21.8
60°-70°	4894.1	31.2
70°-80°	2512.4	16.0
80°-90°	351.7	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°	15710.0	100.0
0°-180°	15710.0	100.0



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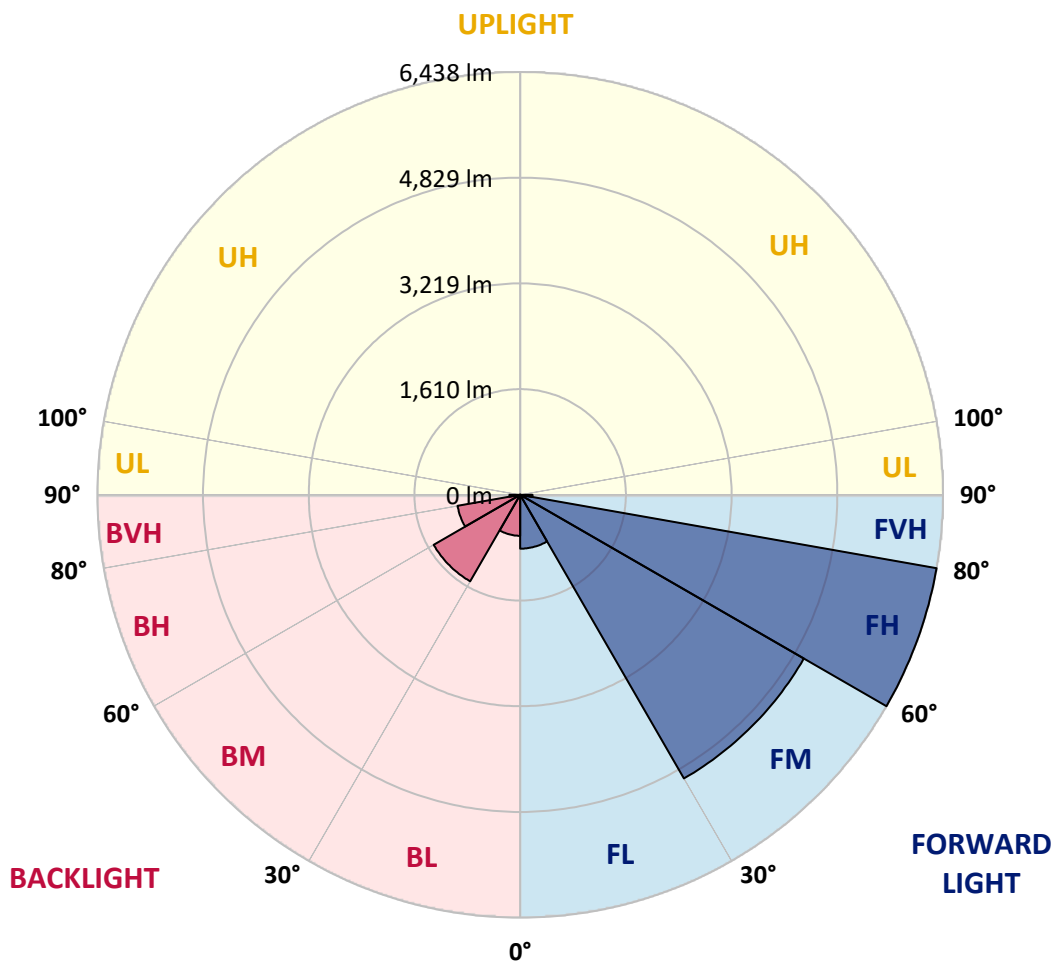
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.7	5.2			
FM	(30°-60°)	4986.8	31.7			
FH	(60°-80°)	6438.4	41.0			G3/7500
FVH	(80°-90°)	187.7	1.2			G2/225
BL	(0°-30°)	624.0	4.0	B2/1000		
BM	(30°-60°)	1521.3	9.7	B2/2500		
BH	(60°-80°)	968.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	164.0	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°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1929.9	1926.0	1924.5	1921.4	1917.6	1898.5	1894.7	1880.9	1861.8	1842.0	1821.3
5°	2056.7	2056.0	2047.6	2032.3	2007.8	1965.8	1955.8	1922.2	1877.1	1833.5	1790.0
7.5°	2168.3	2161.4	2145.4	2114.8	2072.0	2014.7	2000.9	1954.3	1892.4	1832.8	1773.9
10°	2250.1	2246.3	2211.1	2169.1	2113.3	2049.8	2033.8	1981.8	1913.8	1838.1	1764.8
12.5°	2296.7	2289.1	2248.6	2198.1	2131.6	2069.7	2053.7	2000.9	1924.5	1838.1	1751.8
15°	2293.7	2288.3	2247.8	2192.8	2125.5	2071.2	2056.7	2004.0	1922.2	1830.5	1735.0
17.5°	2232.5	2234.8	2200.4	2146.1	2091.1	2049.8	2036.9	1987.9	1906.9	1815.2	1715.1
20°	2125.5	2136.2	2113.3	2065.1	2034.6	2006.3	1997.9	1956.6	1883.2	1793.0	1693.7
22.5°	2018.5	2028.4	2019.3	1978.8	1974.2	1957.4	1952.8	1923.0	1862.6	1779.3	1680.7
25°	1939.8	1949.0	1947.4	1912.3	1926.0	1925.3	1921.4	1906.9	1858.0	1779.3	1683.0
27.5°	1918.4	1921.4	1918.4	1886.3	1905.4	1920.7	1917.6	1915.3	1871.8	1801.4	1712.0
30°	1991.8	1987.2	1963.5	1898.5	1916.1	1937.5	1934.4	1936.0	1913.0	1859.5	1777.0
32.5°	2284.5	2263.8	2188.9	2006.3	1959.7	1971.1	1972.7	1997.9	2001.7	1949.0	1877.9
35°	2722.4	2699.5	2602.4	2295.2	2094.9	2055.2	2055.2	2093.4	2116.3	2077.4	2034.6
37.5°	3186.4	3161.1	3109.2	2695.7	2379.3	2201.2	2197.4	2224.1	2257.0	2266.1	2276.8
40°	3713.7	3687.0	3701.5	3145.1	2775.9	2454.2	2399.9	2380.8	2469.4	2528.3	2613.9
42.5°	4290.8	4278.5	4283.9	3645.7	3227.6	2832.5	2755.3	2656.7	2763.7	2868.4	3048.0
45°	4825.0	4835.7	4830.4	4181.5	3730.5	3294.1	3212.3	3021.3	3126.0	3305.6	3598.3
47.5°	5292.8	5248.4	5317.2	4766.9	4293.8	3810.8	3709.9	3453.9	3560.1	3781.7	4277.0
50°	5860.6	5854.5	5753.6	5548.0	4974.8	4329.7	4197.5	3901.0	4066.1	4374.1	5132.3
52.5°	6457.5	6346.7	6254.2	6155.7	5697.1	4861.7	4699.7	4346.6	4660.7	5048.2	6174.8
55°	6579.8	6530.2	6644.8	6810.7	6393.3	5414.3	5225.5	4905.3	5330.2	5818.6	7377.0
57.5°	6841.2	6840.5	7077.4	7373.2	7110.3	6000.5	5810.2	5580.1	6083.0	6701.4	8653.4
60°	7017.8	7067.5	7507.7	8081.7	7814.2	6677.7	6502.6	6359.0	6939.1	7688.1	9842.6
62.5°	7110.3	7177.5	7778.3	8369.1	8809.3	7805.0	7630.0	7422.9	8071.7	8770.3	10538.1
65°	6725.8	6858.0	7736.2	8617.5	9680.6	9632.4	9553.7	9189.9	9488.0	9625.6	10286.7
67.5°	5661.9	5797.2	6819.8	8385.9	10302.7	11394.9	11411.7	10790.3	10359.3	9698.9	8648.8
70°	4034.0	4140.2	4986.3	7030.8	9828.9	12546.7	12604.0	11527.9	10185.8	8601.4	6042.5
72.5°	1915.3	1980.3	2781.3	4575.8	7799.7	11495.8	11606.6	10586.3	8661.0	6368.1	3296.4
75°	703.9	723.8	940.1	1946.7	4523.9	8477.6	8608.3	7588.7	5741.4	3170.3	1255.7
77.5°	421.9	434.9	527.4	821.6	1779.3	4845.6	5039.0	4127.2	2509.2	1180.1	617.6
80°	295.0	304.2	378.3	511.3	840.7	1846.5	2018.5	1684.5	999.7	746.7	449.4
82.5°	199.5	204.1	266.0	345.5	558.7	659.6	711.6	749.0	674.1	555.6	285.1
85°	130.7	135.3	180.4	227.8	355.4	340.9	348.5	441.0	492.2	377.6	158.2
87.5°	74.9	78.0	108.5	121.5	174.3	144.5	146.0	232.3	314.9	254.5	96.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1816.0	1806.0	1783.9	1770.1	1757.1	1754.1	1748.7	1747.9	1747.2	1747.2	1744.9
5°	1775.5	1758.6	1724.3	1705.1	1689.1	1687.6	1686.8	1690.6	1692.2	1693.7	1691.4
7.5°	1749.5	1726.5	1683.7	1656.2	1637.1	1632.5	1640.2	1657.8	1669.2	1673.8	1671.5
10°	1733.4	1705.1	1655.5	1625.7	1609.6	1607.3	1617.3	1637.9	1661.6	1670.8	1670.0
12.5°	1715.1	1683.0	1630.2	1598.9	1589.7	1594.3	1607.3	1626.4	1650.9	1665.4	1666.2
15°	1696.7	1659.3	1605.0	1577.5	1573.7	1579.8	1592.0	1606.6	1625.7	1640.2	1641.7
17.5°	1674.6	1635.6	1581.3	1553.1	1550.0	1553.1	1553.8	1561.5	1573.7	1587.4	1591.3
20°	1650.9	1611.1	1554.6	1526.3	1512.5	1500.3	1486.6	1488.1	1491.9	1505.7	1508.7
22.5°	1634.1	1594.3	1533.9	1495.0	1458.3	1421.6	1394.1	1390.3	1391.8	1403.2	1407.1
25°	1635.6	1593.6	1528.6	1461.3	1381.1	1322.2	1285.5	1279.4	1278.7	1287.1	1292.4
27.5°	1665.4	1623.4	1548.5	1426.9	1297.0	1209.9	1170.9	1166.3	1160.2	1162.5	1168.6
30°	1731.9	1692.9	1596.6	1391.8	1206.1	1099.8	1059.3	1054.7	1046.3	1042.5	1047.1
32.5°	1840.4	1808.3	1666.9	1358.2	1115.1	1005.8	964.5	954.6	949.3	944.7	948.5
35°	2020.8	2007.0	1760.9	1321.5	1034.9	933.2	895.8	880.5	872.8	881.2	887.3
37.5°	2303.6	2311.2	1884.0	1264.1	973.0	885.1	853.7	836.1	824.7	831.6	838.4
40°	2704.1	2709.4	2020.0	1183.1	919.4	856.8	823.1	807.1	791.0	778.8	778.1
42.5°	3229.9	3175.7	2153.8	1095.2	857.5	839.2	801.7	781.9	757.4	723.8	716.9
45°	3853.6	3663.3	2255.4	994.4	788.0	817.8	778.1	750.5	712.3	675.6	671.8
47.5°	4572.0	4186.8	2305.1	889.6	723.0	786.5	749.0	705.4	657.3	639.0	636.7
50°	5449.4	4808.2	2328.8	788.0	666.5	745.2	707.0	655.8	615.3	611.4	609.1
52.5°	6448.4	5555.7	2336.5	704.7	619.8	691.7	672.6	622.9	590.8	593.9	593.9
55°	7493.9	6327.6	2232.5	644.3	577.0	636.7	649.7	609.9	583.2	595.4	600.0
57.5°	8453.9	7011.7	1905.4	597.7	536.5	594.6	641.2	622.1	603.8	653.5	656.5
60°	9190.7	7416.0	1423.1	555.6	506.7	580.1	663.4	668.8	673.3	791.8	807.9
62.5°	9345.1	7281.5	978.3	522.8	493.0	592.3	703.9	704.7	699.3	781.9	791.8
65°	8636.6	6430.8	711.6	504.4	481.5	614.5	738.3	722.3	687.1	749.8	731.4
67.5°	6858.8	4844.9	592.3	490.7	464.7	613.0	775.0	738.3	680.2	734.5	704.7
70°	4452.0	2929.6	527.4	479.2	444.8	583.9	796.4	736.8	660.4	683.3	648.1
72.5°	2172.1	1310.0	483.8	462.4	424.2	543.4	795.6	723.0	639.7	638.2	619.1
75°	849.9	600.0	444.1	437.2	389.0	497.6	774.2	703.2	615.3	590.8	583.9
77.5°	497.6	428.0	393.6	399.7	347.0	451.7	742.9	668.8	581.6	552.6	544.9
80°	362.3	320.2	335.5	345.5	296.5	405.8	700.9	626.7	544.2	558.7	548.0
82.5°	232.3	206.4	272.1	282.0	246.9	359.2	655.0	582.4	491.4	446.3	435.6
85°	118.5	130.7	202.5	214.8	190.3	295.0	599.2	523.5	431.8	371.4	377.6
87.5°	66.5	89.4	129.2	144.5	134.5	227.0	486.1	431.8	352.3	286.6	252.2
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)