

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: P193292

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193292
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 15193.6 lumens
Efficiency: N/A
Efficacy: 117.8 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



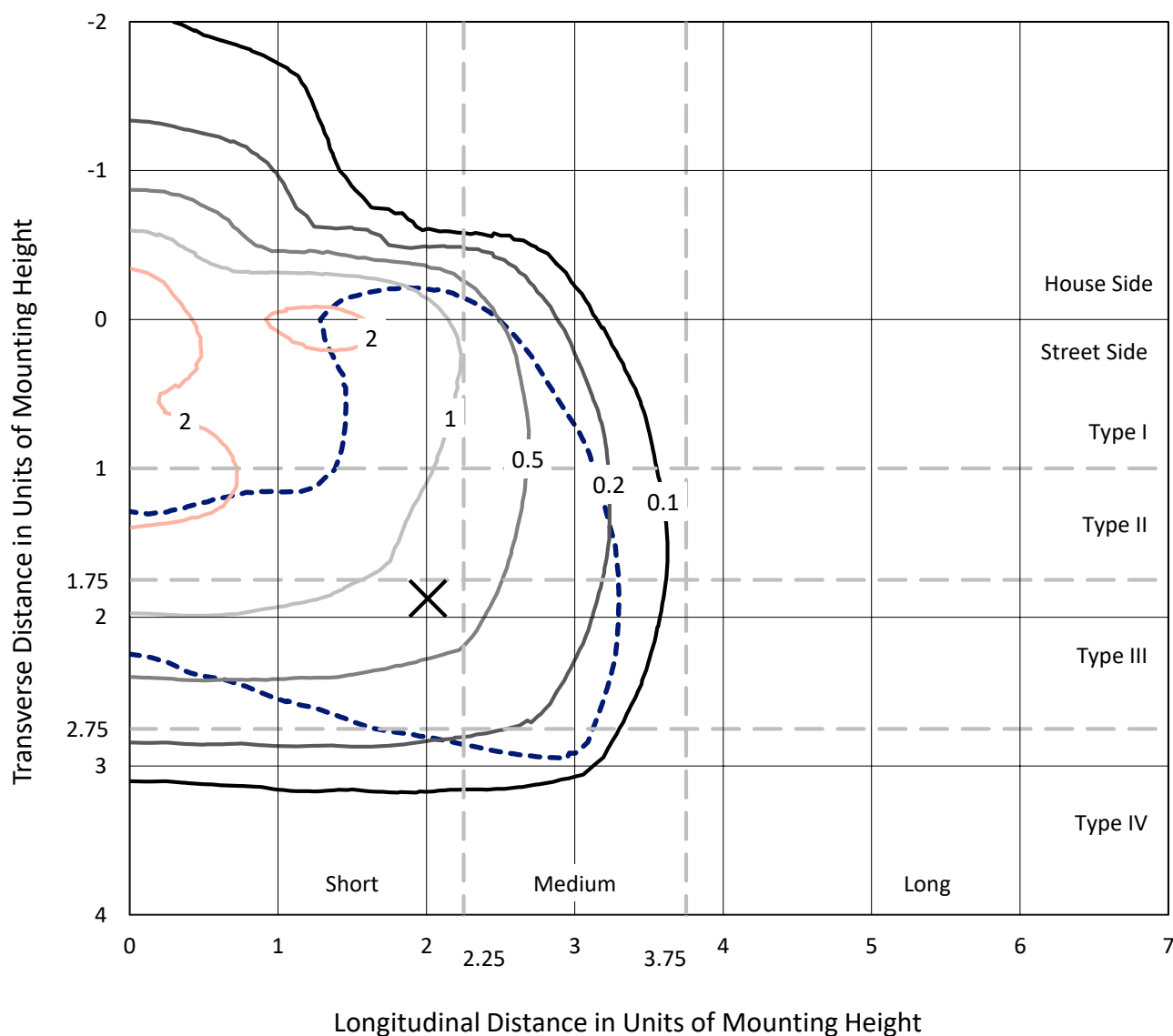
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

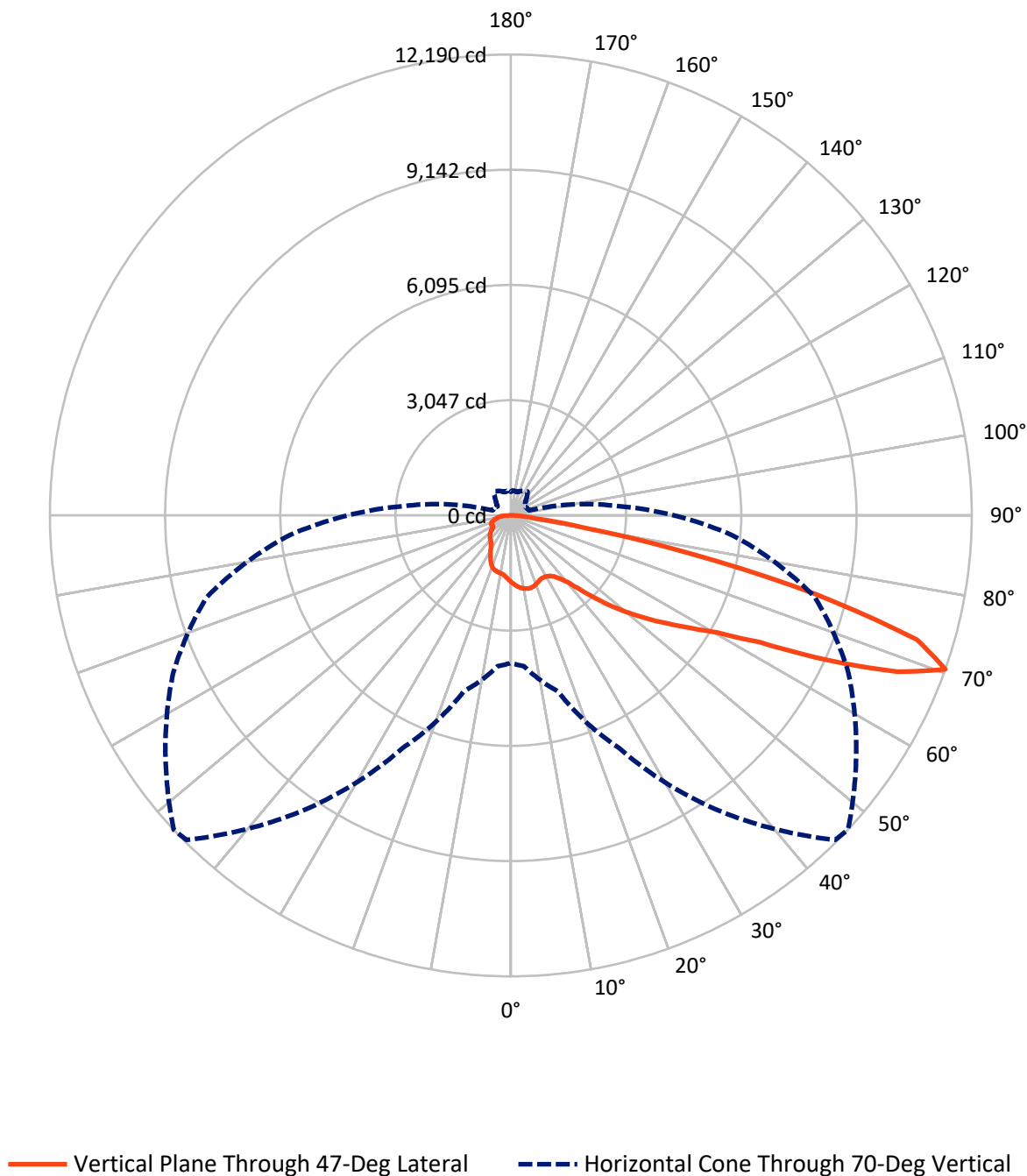


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3169.7	0.0	3169.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12023.9	0.0	12023.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	15193.6	0.0	15193.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.1
10°-20°	495.6	3.3
20°-30°	731.8	4.8
30°-40°	1063.7	7.0
40°-50°	1914.2	12.6
50°-60°	3316.2	21.8
60°-70°	4733.2	31.2
70°-80°	2429.8	16.0
80°-90°	340.2	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°	15193.6	100.0
0°-180°	15193.6	100.0

Coefficient of Utilization



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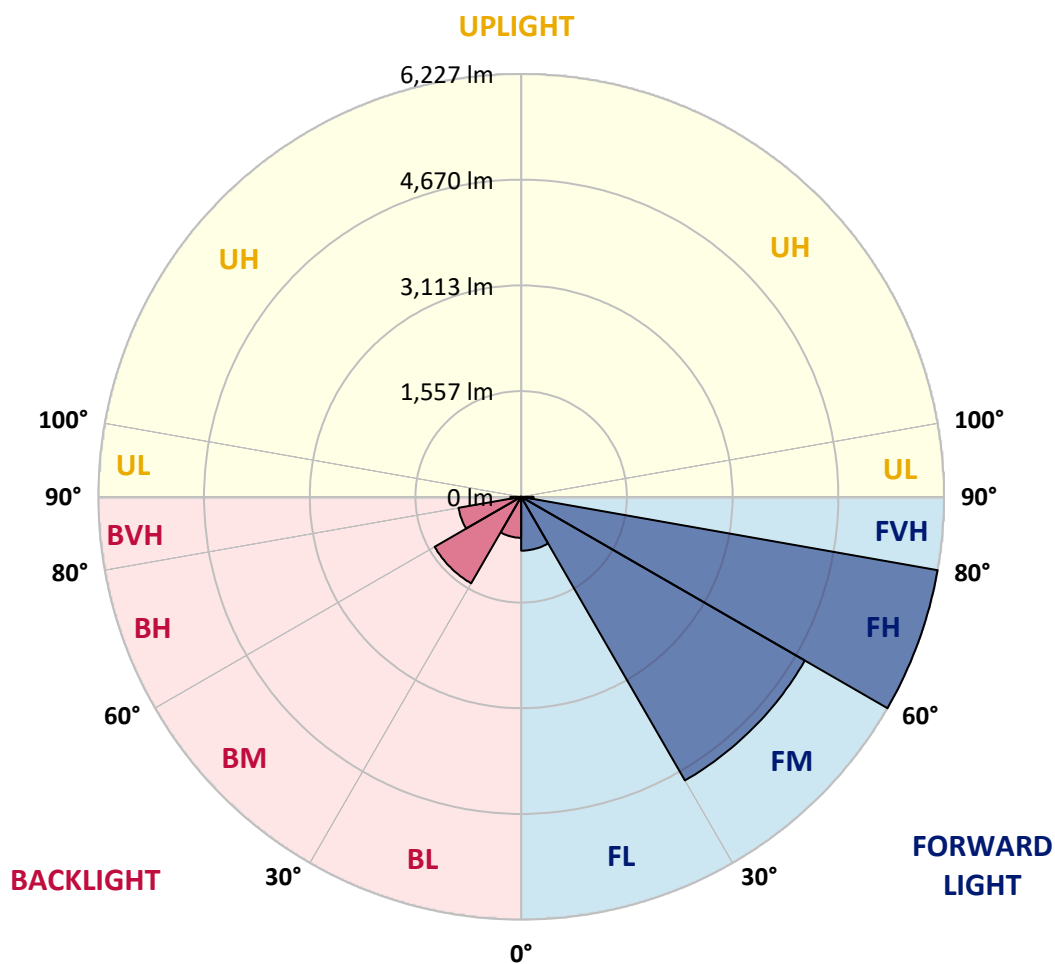
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.8	5.2			
FM	(30°-60°)	4822.9	31.7			
FH	(60°-80°)	6226.8	41.0			G3/7500
FVH	(80°-90°)	181.5	1.2			G2/225
BL	(0°-30°)	603.5	4.0	B2/1000		
BM	(30°-60°)	1471.3	9.7	B2/2500		
BH	(60°-80°)	936.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	158.7	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°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1866.3	1862.8	1861.2	1858.3	1854.5	1836.1	1832.4	1819.0	1800.6	1781.4	1761.5
5°	1989.1	1988.4	1980.3	1965.5	1941.7	1901.1	1891.5	1859.0	1815.5	1773.3	1731.1
7.5°	2097.0	2090.3	2074.9	2045.4	2004.0	1948.4	1935.2	1890.0	1830.2	1772.5	1715.6
10°	2176.1	2172.4	2138.4	2097.8	2043.8	1982.5	1967.0	1916.6	1850.9	1777.7	1706.7
12.5°	2221.2	2213.8	2174.7	2125.8	2061.5	2001.6	1986.2	1935.2	1861.2	1777.7	1694.2
15°	2218.3	2213.0	2173.9	2120.7	2055.6	2003.2	1989.1	1938.2	1859.0	1770.3	1677.9
17.5°	2159.2	2161.3	2128.1	2075.6	2022.4	1982.5	1970.0	1922.6	1844.2	1755.6	1658.7
20°	2055.6	2066.0	2043.8	1997.3	1967.6	1940.3	1932.2	1892.3	1821.4	1734.1	1638.1
22.5°	1952.1	1961.7	1952.9	1913.6	1909.3	1893.0	1888.5	1859.8	1801.3	1720.9	1625.4
25°	1876.0	1884.9	1883.4	1849.4	1862.8	1862.0	1858.3	1844.2	1796.9	1720.9	1627.6
27.5°	1855.3	1858.3	1855.3	1824.3	1842.7	1857.5	1854.5	1852.4	1810.2	1742.2	1655.8
30°	1926.2	1921.9	1898.9	1836.1	1853.1	1873.8	1870.8	1872.3	1850.2	1798.4	1718.5
32.5°	2209.4	2189.4	2117.0	1940.3	1895.2	1906.3	1907.7	1932.2	1935.8	1884.9	1816.1
35°	2632.9	2610.8	2516.9	2219.7	2026.1	1987.7	1987.7	2024.6	2046.8	2009.1	1967.6
37.5°	3081.6	3057.2	3007.0	2607.0	2301.0	2128.8	2125.1	2151.0	2182.8	2191.6	2202.0
40°	3591.7	3565.7	3579.8	3041.7	2684.7	2373.4	2321.0	2302.5	2388.3	2445.2	2527.9
42.5°	4149.7	4137.8	4143.1	3525.9	3121.5	2739.3	2664.8	2569.3	2672.8	2774.1	2947.9
45°	4666.4	4676.8	4671.6	4044.0	3608.0	3185.9	3106.8	2921.9	3023.2	3196.9	3480.0
47.5°	5118.8	5075.8	5142.4	4610.2	4152.7	3685.6	3588.0	3340.3	3443.1	3657.5	4136.4
50°	5668.0	5662.1	5564.5	5365.6	4811.2	4187.5	4059.5	3772.7	3932.5	4230.3	4963.5
52.5°	6245.3	6138.0	6048.7	5953.3	5509.8	4701.9	4545.1	4203.6	4507.5	4882.2	5971.8
55°	6363.6	6315.5	6426.4	6586.8	6183.2	5236.4	5053.7	4744.0	5155.0	5627.3	7134.5
57.5°	6616.3	6615.6	6844.8	7130.8	6876.6	5803.3	5619.2	5396.8	5883.1	6481.0	8368.9
60°	6787.0	6835.2	7261.0	7816.0	7557.4	6458.2	6288.9	6149.8	6710.9	7435.3	9519.1
62.5°	6876.6	6941.6	7522.6	8093.9	8519.7	7548.4	7379.2	7178.9	7806.5	8482.1	10191.7
65°	6504.7	6632.6	7482.0	8334.2	9362.4	9315.8	9239.7	8887.8	9176.1	9309.1	9948.5
67.5°	5475.7	5606.6	6595.7	8110.2	9964.1	11020.3	11036.6	10435.7	10018.7	9380.1	8364.5
70°	3901.3	4004.2	4822.3	6799.6	9505.8	12134.3	12189.7	11149.0	9851.0	8318.7	5843.9
72.5°	1852.4	1915.2	2689.9	4425.4	7543.3	11117.9	11225.1	10238.2	8376.4	6158.8	3188.0
75°	680.8	700.1	909.1	1882.6	4375.2	8199.0	8325.3	7339.3	5552.7	3066.2	1214.4
77.5°	408.0	420.5	510.0	794.7	1720.9	4686.3	4873.4	3991.6	2426.7	1141.3	597.2
80°	285.2	294.2	365.9	494.5	813.1	1785.9	1952.1	1629.2	966.8	722.2	434.7
82.5°	193.0	197.3	257.2	334.2	540.3	637.8	688.3	724.4	651.9	537.3	275.7
85°	126.4	130.8	174.5	220.2	343.7	329.6	337.1	426.5	476.1	365.2	153.0
87.5°	72.4	75.4	105.0	117.6	168.5	139.8	141.2	224.7	304.5	246.2	93.1
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°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1756.3	1746.6	1725.2	1711.9	1699.3	1696.4	1691.3	1690.5	1689.8	1689.8	1687.5
5°	1717.1	1700.8	1667.7	1649.0	1633.5	1632.2	1631.4	1635.1	1636.4	1638.1	1635.8
7.5°	1692.0	1669.8	1628.4	1601.7	1583.2	1578.9	1586.2	1603.3	1614.3	1618.7	1616.6
10°	1676.5	1649.0	1601.0	1572.2	1556.7	1554.4	1564.0	1584.0	1606.9	1615.8	1615.1
12.5°	1658.7	1627.6	1576.6	1546.3	1537.5	1541.8	1554.4	1573.0	1596.6	1610.7	1611.3
15°	1641.0	1604.8	1552.2	1525.7	1522.0	1527.9	1539.7	1553.7	1572.2	1586.2	1587.7
17.5°	1619.5	1581.8	1529.3	1502.0	1499.0	1502.0	1502.8	1510.2	1522.0	1535.3	1538.9
20°	1596.6	1558.1	1503.5	1476.1	1462.9	1451.0	1437.8	1439.2	1442.9	1456.2	1459.1
22.5°	1580.3	1541.8	1483.5	1445.8	1410.3	1374.8	1348.3	1344.6	1346.1	1357.1	1360.9
25°	1581.8	1541.2	1478.4	1413.3	1335.7	1278.8	1243.3	1237.4	1236.6	1244.8	1249.9
27.5°	1610.7	1570.0	1497.6	1380.1	1254.4	1170.1	1132.4	1128.0	1122.1	1124.3	1130.2
30°	1675.0	1637.2	1544.2	1346.1	1166.5	1063.6	1024.6	1020.1	1012.0	1008.3	1012.7
32.5°	1780.0	1748.9	1612.1	1313.6	1078.5	972.7	932.8	923.2	918.1	913.6	917.3
35°	1954.4	1941.1	1703.1	1278.0	1000.9	902.5	866.3	851.5	844.1	852.2	858.2
37.5°	2227.9	2235.2	1822.1	1222.6	940.9	855.9	825.7	808.6	797.6	804.2	810.9
40°	2615.2	2620.4	1953.7	1144.3	889.3	828.6	796.1	780.5	765.1	753.3	752.5
42.5°	3123.7	3071.3	2083.0	1059.3	829.4	811.6	775.4	756.2	732.5	700.1	693.4
45°	3727.0	3542.8	2181.3	961.7	762.1	790.9	752.5	725.9	688.9	653.5	649.8
47.5°	4421.7	4049.1	2229.3	860.4	699.3	760.7	724.4	682.3	635.7	618.0	615.7
50°	5270.3	4650.2	2252.3	762.1	644.5	720.7	683.8	634.2	595.0	591.3	589.1
52.5°	6236.4	5373.1	2259.7	681.6	599.5	669.0	650.4	602.4	571.4	574.3	574.3
55°	7247.6	6119.6	2159.2	623.1	558.1	615.7	628.4	589.9	564.0	575.8	580.2
57.5°	8176.0	6781.1	1842.7	578.0	518.9	575.0	620.1	601.7	584.0	631.9	634.9
60°	8888.6	7172.3	1376.3	537.3	490.0	561.0	641.6	646.9	651.1	765.8	781.3
62.5°	9037.9	7042.1	946.1	505.6	476.8	572.8	680.8	681.6	676.4	756.2	765.8
65°	8352.7	6219.4	688.3	487.9	465.7	594.3	714.0	698.5	664.6	725.2	707.4
67.5°	6633.3	4685.6	572.8	474.5	449.4	592.8	749.5	714.0	657.8	710.3	681.6
70°	4305.7	2833.2	510.0	463.5	430.2	564.8	770.2	712.6	638.6	660.8	626.8
72.5°	2100.7	1267.0	467.8	447.2	410.3	525.5	769.5	699.3	618.7	617.2	598.7
75°	821.9	580.2	429.5	422.9	376.3	481.2	748.8	680.0	595.0	571.4	564.8
77.5°	481.2	414.0	380.7	386.6	335.5	436.8	718.5	646.9	562.4	534.4	527.0
80°	350.4	309.8	324.5	334.2	286.8	392.5	677.9	606.2	526.3	540.3	530.0
82.5°	224.7	199.6	263.1	272.7	238.7	347.5	633.4	563.2	475.3	431.7	421.3
85°	114.6	126.4	195.9	207.7	184.1	285.2	579.5	506.3	417.6	359.3	365.2
87.5°	64.4	86.6	124.9	139.8	130.1	219.5	470.2	417.6	340.8	277.2	243.9
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)