

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: P194102

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194102
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 15719 lumens
Efficiency: N/A
Efficacy: 91.9 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): 171
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

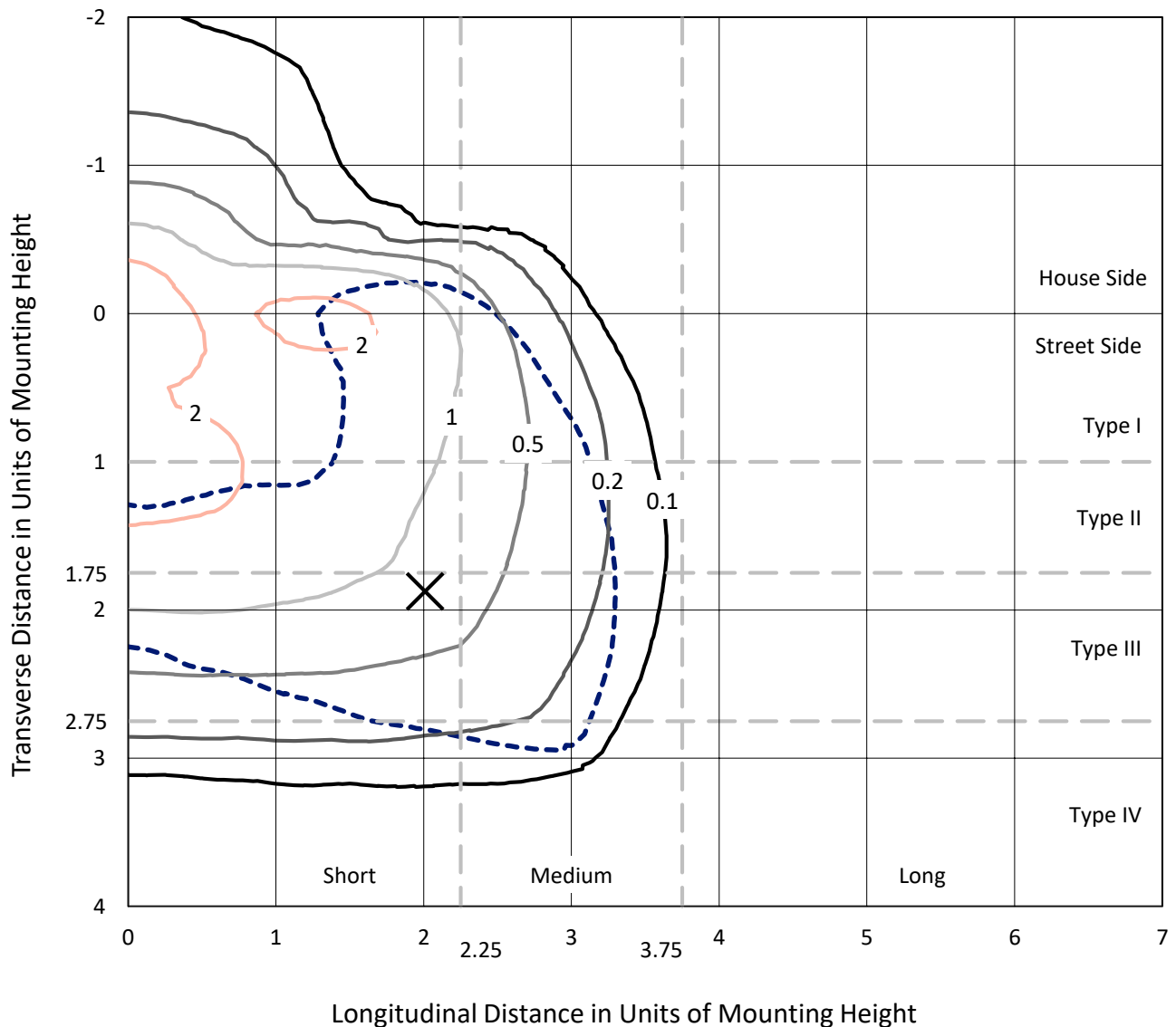


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

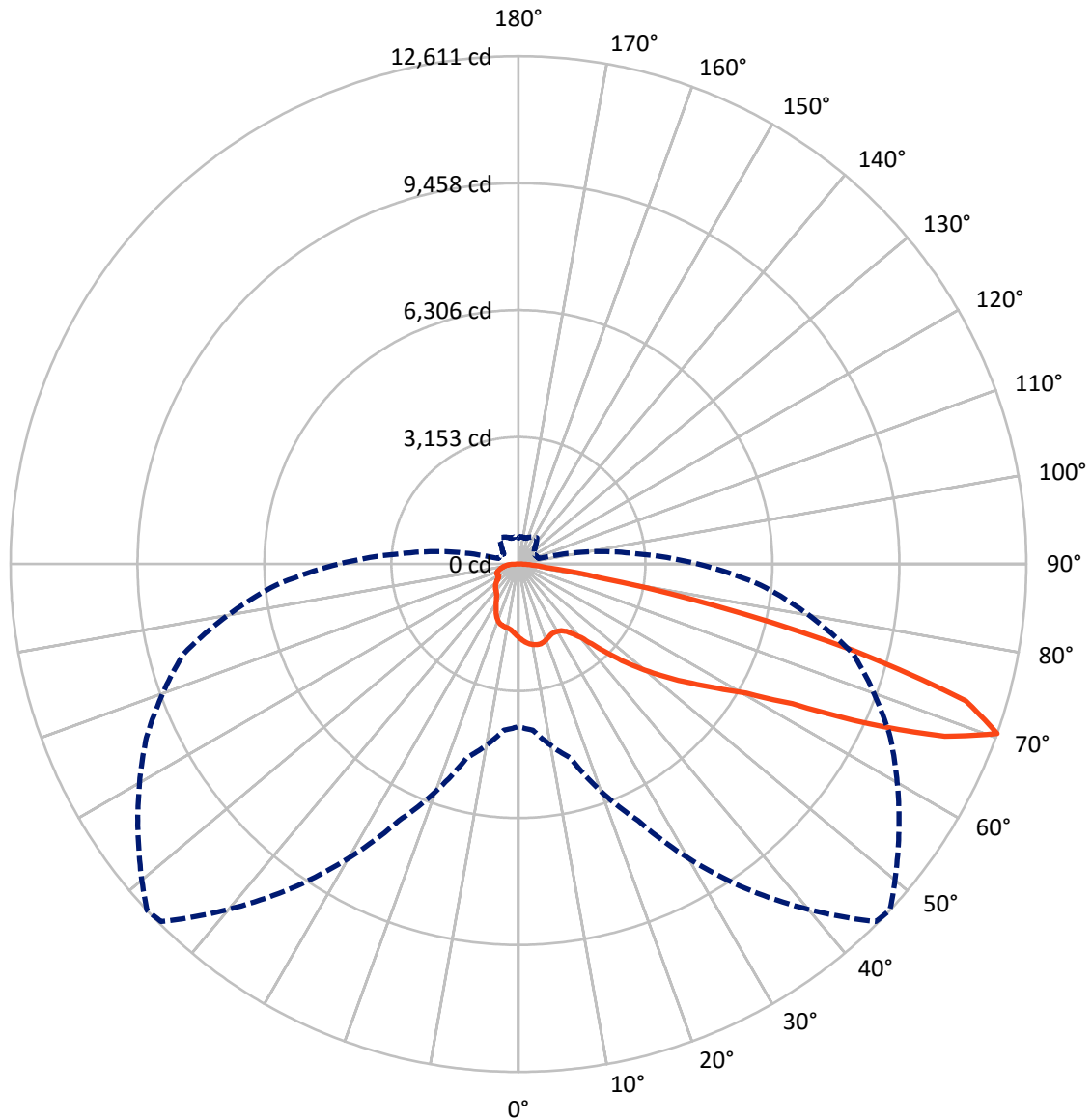


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	3279.3	0.0	3279.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12439.7	0.0	12439.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	15719.0	0.0	15719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.1
10°-20°	512.7	3.3
20°-30°	757.1	4.8
30°-40°	1100.5	7.0
40°-50°	1980.4	12.6
50°-60°	3430.9	21.8
60°-70°	4896.9	31.2
70°-80°	2513.8	16.0
80°-90°	351.9	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°	15719.0	100.0
0°-180°	15719.0	100.0

Coefficient of Utilization



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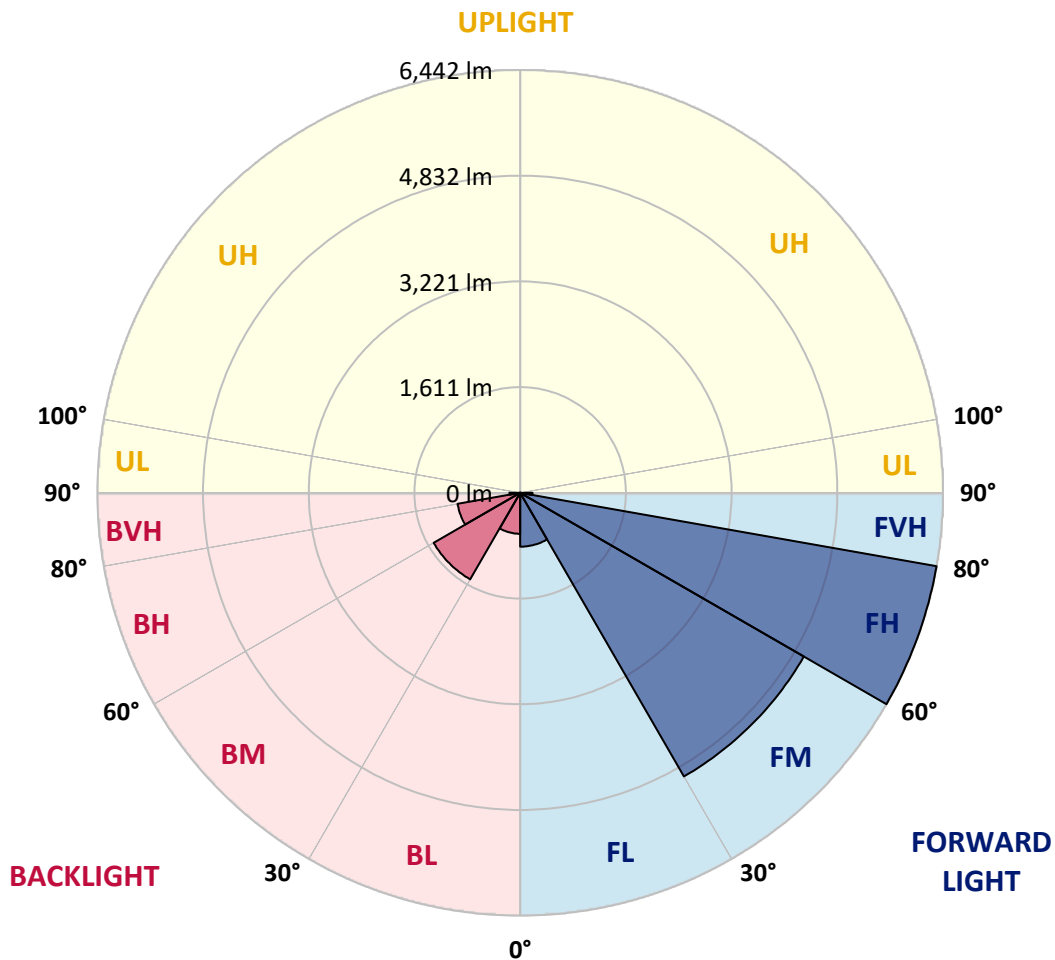
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.2	5.2			
FM	(30°-60°)	4989.7	31.7			
FH	(60°-80°)	6442.1	41.0			G3/7500
FVH	(80°-90°)	187.8	1.2			G2/225
BL	(0°-30°)	624.4	4.0	B2/1000		
BM	(30°-60°)	1522.1	9.7	B2/2500		
BH	(60°-80°)	968.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	164.1	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°	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9
2.5°	1931.0	1927.1	1925.6	1922.5	1918.7	1899.6	1895.8	1882.0	1862.9	1843.0	1822.4
5°	2057.9	2057.1	2048.7	2033.4	2009.0	1966.9	1957.0	1923.3	1878.2	1834.6	1791.0
7.5°	2169.6	2162.7	2146.6	2116.0	2073.2	2015.8	2002.1	1955.4	1893.5	1833.8	1775.0
10°	2251.4	2247.6	2212.4	2170.3	2114.5	2051.0	2035.0	1983.0	1914.9	1839.2	1765.8
12.5°	2298.0	2290.4	2249.9	2199.4	2132.8	2070.9	2054.8	2002.1	1925.6	1839.2	1752.8
15°	2295.0	2289.6	2249.1	2194.0	2126.7	2072.4	2057.9	2005.1	1923.3	1831.5	1735.9
17.5°	2233.8	2236.1	2201.7	2147.4	2092.3	2051.0	2038.0	1989.1	1908.0	1816.2	1716.1
20°	2126.7	2137.4	2114.5	2066.3	2035.7	2007.4	1999.0	1957.7	1884.3	1794.1	1694.7
22.5°	2019.7	2029.6	2020.4	1979.9	1975.3	1958.5	1953.9	1924.1	1863.7	1780.3	1681.7
25°	1940.9	1950.1	1948.5	1913.4	1927.1	1926.4	1922.5	1908.0	1859.1	1780.3	1683.9
27.5°	1919.5	1922.5	1919.5	1887.4	1906.5	1921.8	1918.7	1916.4	1872.8	1802.5	1713.0
30°	1992.9	1988.3	1964.6	1899.6	1917.2	1938.6	1935.5	1937.1	1914.1	1860.6	1778.0
32.5°	2285.8	2265.1	2190.2	2007.4	1960.8	1972.3	1973.8	1999.0	2002.8	1950.1	1879.0
35°	2724.0	2701.0	2603.9	2296.5	2096.1	2056.4	2056.4	2094.6	2117.6	2078.6	2035.7
37.5°	3188.2	3162.9	3110.9	2697.2	2380.6	2202.4	2198.6	2225.4	2258.3	2267.4	2278.1
40°	3715.8	3689.1	3703.6	3146.9	2777.5	2455.6	2401.3	2382.2	2470.9	2529.7	2615.4
42.5°	4293.2	4281.0	4286.3	3647.8	3229.5	2834.1	2756.9	2658.2	2765.3	2870.1	3049.8
45°	4827.8	4838.5	4833.1	4183.9	3732.7	3296.0	3214.2	3023.0	3127.8	3307.5	3600.4
47.5°	5295.8	5251.4	5320.3	4769.7	4296.3	3813.0	3712.0	3455.8	3562.1	3783.9	4279.5
50°	5864.0	5857.9	5756.9	5551.2	4977.7	4332.2	4199.9	3903.2	4068.4	4376.6	5135.2
52.5°	6461.2	6350.4	6257.8	6159.2	5700.3	4864.5	4702.4	4349.0	4663.4	5051.1	6178.3
55°	6583.6	6533.9	6648.6	6814.6	6397.0	5417.4	5228.5	4908.1	5333.3	5821.9	7381.2
57.5°	6845.1	6844.4	7081.4	7377.4	7114.3	6003.9	5813.5	5583.3	6086.5	6705.2	8658.3
60°	7021.8	7071.5	7512.0	8086.3	7818.7	6681.5	6506.4	6362.6	6943.0	7692.5	9848.3
62.5°	7114.3	7181.6	7782.7	8373.8	8814.3	7809.5	7634.4	7427.1	8076.4	8775.3	10544.2
65°	6729.7	6862.0	7740.6	8622.4	9686.1	9638.0	9559.2	9195.2	9493.4	9631.1	10292.6
67.5°	5665.2	5800.5	6823.7	8390.7	10308.6	11401.4	11418.3	10796.5	10365.2	9704.5	8653.7
70°	4036.3	4142.6	4989.1	7034.8	9834.5	12553.9	12611.2	11534.5	10191.6	8606.3	6046.0
72.5°	1916.4	1981.4	2782.9	4578.5	7804.1	11502.4	11613.3	10592.3	8666.0	6371.8	3298.3
75°	704.3	724.2	940.6	1947.8	4526.5	8482.4	8613.2	7593.1	5744.7	3172.1	1256.5
77.5°	422.1	435.1	527.7	822.1	1780.3	4848.4	5041.9	4129.6	2510.6	1180.8	617.9
80°	295.2	304.4	378.5	511.6	841.2	1847.6	2019.7	1685.5	1000.3	747.1	449.7
82.5°	199.6	204.2	266.1	345.7	559.0	660.0	712.0	749.4	674.5	556.0	285.2
85°	130.8	135.4	180.5	227.9	355.6	341.1	348.7	441.3	492.5	377.8	158.3
87.5°	74.9	78.0	108.6	121.6	174.4	144.5	146.1	232.5	315.1	254.7	96.4
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°	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9	1823.9
2.5°	1817.0	1807.1	1784.9	1771.1	1758.1	1755.1	1749.7	1748.9	1748.2	1748.2	1745.9
5°	1776.5	1759.7	1725.2	1706.1	1690.1	1688.5	1687.8	1691.6	1693.1	1694.7	1692.4
7.5°	1750.5	1727.5	1684.7	1657.2	1638.1	1633.5	1641.1	1658.7	1670.2	1674.8	1672.5
10°	1734.4	1706.1	1656.4	1626.6	1610.5	1608.2	1618.2	1638.8	1662.5	1671.7	1670.9
12.5°	1716.1	1683.9	1631.2	1599.8	1590.6	1595.2	1608.2	1627.4	1651.8	1666.4	1667.1
15°	1697.7	1660.2	1605.9	1578.4	1574.6	1580.7	1592.9	1607.5	1626.6	1641.1	1642.7
17.5°	1675.5	1636.5	1582.2	1553.9	1550.9	1553.9	1554.7	1562.4	1574.6	1588.4	1592.2
20°	1651.8	1612.1	1555.5	1527.2	1513.4	1501.2	1487.4	1488.9	1492.8	1506.5	1509.6
22.5°	1635.0	1595.2	1534.8	1495.8	1459.1	1422.4	1394.9	1391.1	1392.6	1404.1	1407.9
25°	1636.5	1594.5	1529.5	1462.2	1381.9	1323.0	1286.3	1280.2	1279.4	1287.8	1293.2
27.5°	1666.4	1624.3	1549.4	1427.8	1297.8	1210.6	1171.6	1167.0	1160.9	1163.2	1169.3
30°	1732.9	1693.9	1597.5	1392.6	1206.8	1100.5	1059.9	1055.3	1046.9	1043.1	1047.7
32.5°	1841.5	1809.4	1667.9	1358.9	1115.7	1006.4	965.1	955.2	949.8	945.2	949.0
35°	2022.0	2008.2	1761.9	1322.2	1035.5	933.7	896.3	881.0	873.3	881.7	887.9
37.5°	2304.9	2312.6	1885.1	1264.9	973.5	885.6	854.2	836.6	825.1	832.0	838.9
40°	2705.6	2711.0	2021.2	1183.8	920.0	857.3	823.6	807.6	791.5	779.3	778.5
42.5°	3231.8	3177.5	2155.0	1095.9	858.0	839.7	802.2	782.3	757.9	724.2	717.3
45°	3855.8	3665.4	2256.7	994.9	788.4	818.3	778.5	751.0	712.7	676.0	672.2
47.5°	4574.6	4189.2	2306.4	890.2	723.4	786.9	749.4	705.9	657.7	639.3	637.0
50°	5452.6	4810.9	2330.1	788.4	666.8	745.6	707.4	656.1	615.6	611.8	609.5
52.5°	6452.1	5558.9	2337.8	705.1	620.2	692.1	673.0	623.3	591.1	594.2	594.2
55°	7498.2	6331.2	2233.8	644.7	577.4	637.0	650.0	610.3	583.5	595.7	600.3
57.5°	8458.7	7015.7	1906.5	598.0	536.8	595.0	641.6	622.5	604.1	653.8	656.9
60°	9195.9	7420.2	1423.9	556.0	507.0	580.4	663.8	669.1	673.7	792.3	808.3
62.5°	9350.4	7285.6	978.9	523.1	493.3	592.7	704.3	705.1	699.7	782.3	792.3
65°	8641.5	6434.5	712.0	504.7	481.8	614.8	738.7	722.7	687.5	750.2	731.9
67.5°	6862.7	4847.7	592.7	491.0	465.0	613.3	775.4	738.7	680.6	734.9	705.1
70°	4454.6	2931.2	527.7	479.5	445.1	584.3	796.9	737.2	660.7	683.7	648.5
72.5°	2173.4	1310.8	484.1	462.7	424.4	543.7	796.1	723.4	640.1	638.6	619.4
75°	850.4	600.3	444.3	437.4	389.3	497.8	774.7	703.6	615.6	591.1	584.3
77.5°	497.8	428.3	393.8	400.0	347.2	452.0	743.3	669.1	582.0	552.9	545.3
80°	362.5	320.4	335.7	345.7	296.7	406.1	701.3	627.1	544.5	559.0	548.3
82.5°	232.5	206.5	272.2	282.2	247.0	359.4	655.4	582.7	491.7	446.6	435.9
85°	118.5	130.8	202.7	214.9	190.4	295.2	599.6	523.8	432.1	371.7	377.8
87.5°	66.5	89.5	129.2	144.5	134.6	227.1	486.4	432.1	352.5	286.8	252.4
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)