

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: P194111

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194111
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14725 lumens
Efficiency: N/A
Efficacy: 88.7 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

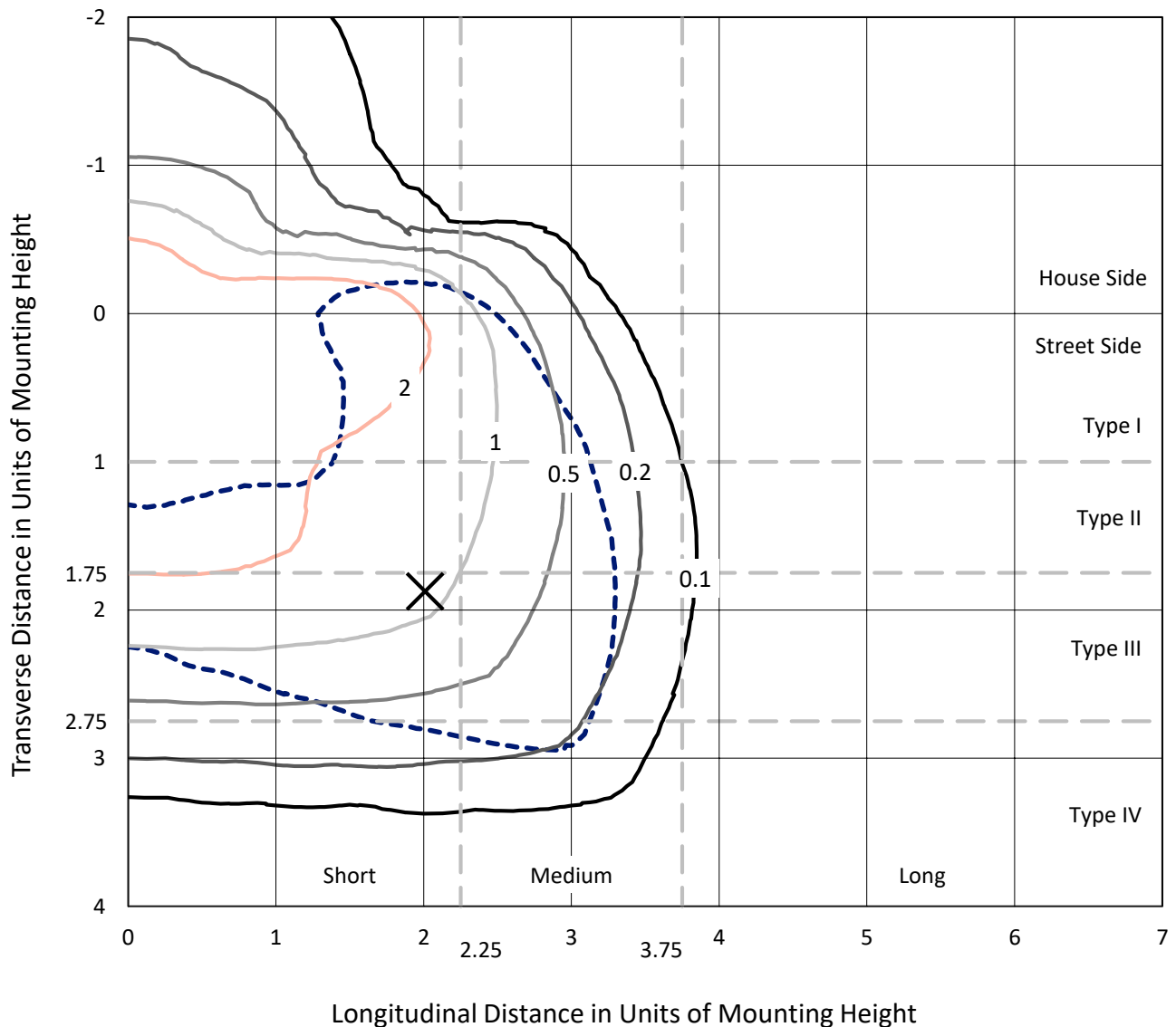
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

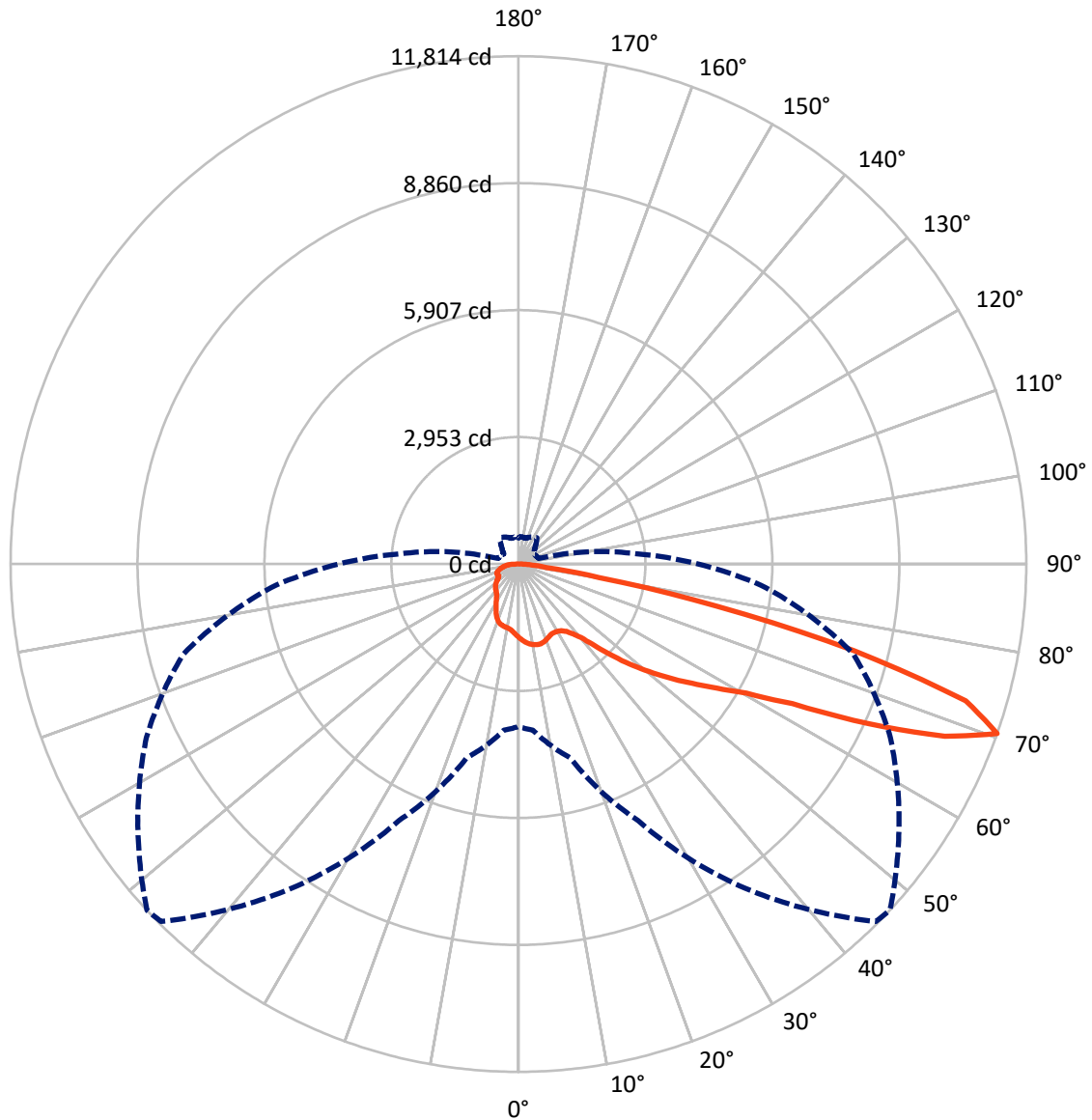
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	3071.9	0.0	3071.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	11653.1	0.0	11653.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	14725.0	0.0	14725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.1
10°-20°	480.3	3.3
20°-30°	709.2	4.8
30°-40°	1030.9	7.0
40°-50°	1855.2	12.6
50°-60°	3213.9	21.8
60°-70°	4587.2	31.2
70°-80°	2354.8	16.0
80°-90°	329.7	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°	14725.0	100.0
0°-180°	14725.0	100.0

Coefficient of Utilization



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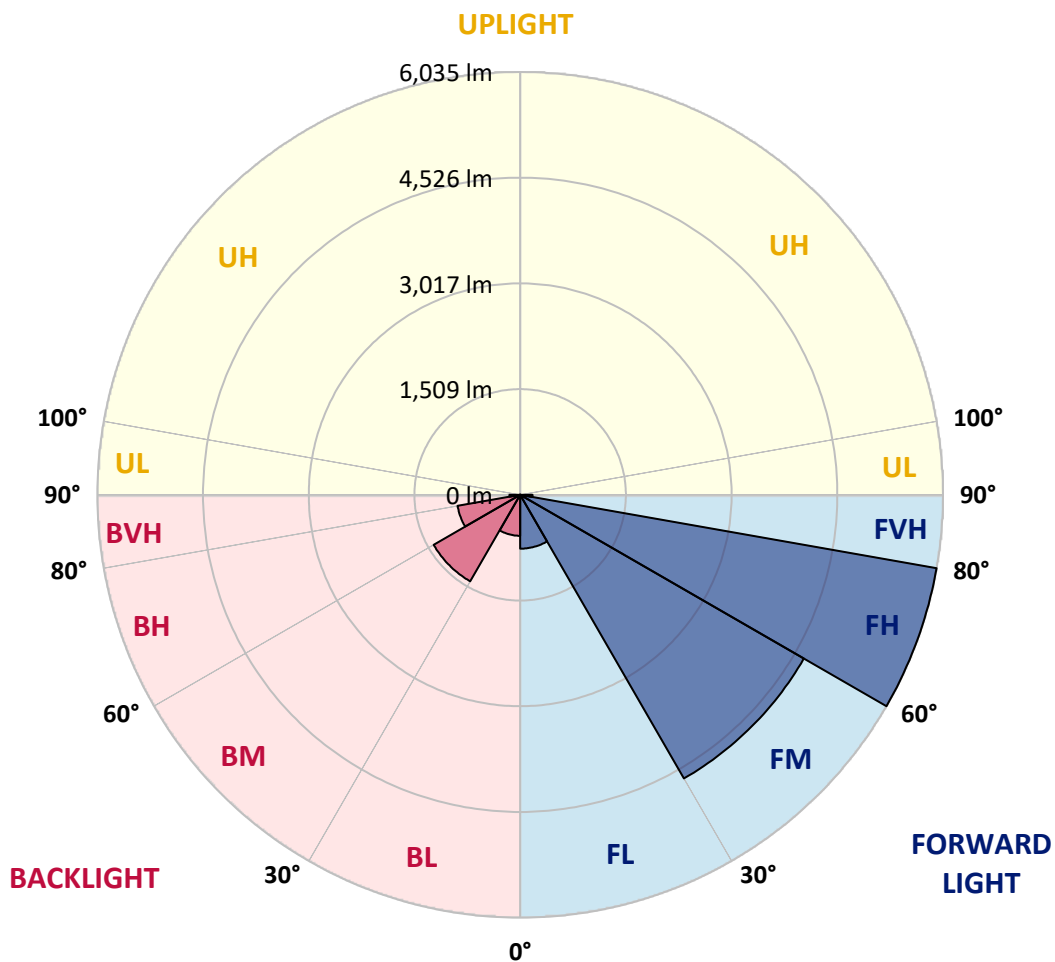
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.3	5.2			
FM	(30°-60°)	4674.1	31.7			
FH	(60°-80°)	6034.7	41.0			G3/7500
FVH	(80°-90°)	175.9	1.2			G2/225
BL	(0°-30°)	584.9	4.0	B2/1000		
BM	(30°-60°)	1425.9	9.7	B2/2500		
BH	(60°-80°)	907.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	153.8	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°	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6
2.5°	1808.9	1805.3	1803.8	1801.0	1797.4	1779.5	1775.9	1763.0	1745.1	1726.5	1707.1
5°	1927.8	1927.1	1919.2	1904.8	1881.9	1842.5	1833.2	1801.7	1759.4	1718.6	1677.8
7.5°	2032.4	2025.9	2010.9	1982.2	1942.1	1888.4	1875.5	1831.8	1773.7	1717.9	1662.7
10°	2109.0	2105.4	2072.5	2033.1	1980.8	1921.3	1906.3	1857.6	1793.8	1722.9	1654.1
12.5°	2152.7	2145.5	2107.6	2060.3	1998.0	1939.9	1924.9	1875.5	1803.8	1722.9	1641.9
15°	2149.8	2144.8	2106.9	2055.3	1992.2	1941.4	1927.8	1878.3	1801.7	1715.7	1626.2
17.5°	2092.5	2094.7	2062.4	2011.6	1960.0	1921.3	1909.1	1863.3	1787.4	1701.4	1607.5
20°	1992.2	2002.3	1980.8	1935.6	1907.0	1880.5	1872.6	1833.9	1765.2	1680.6	1587.5
22.5°	1892.0	1901.3	1892.7	1854.7	1850.4	1834.6	1830.3	1802.4	1745.8	1667.7	1575.3
25°	1818.2	1826.8	1825.3	1792.4	1805.3	1804.6	1801.0	1787.4	1741.5	1667.7	1577.5
27.5°	1798.1	1801.0	1798.1	1768.0	1785.9	1800.3	1797.4	1795.2	1754.4	1688.5	1604.7
30°	1866.9	1862.6	1840.4	1779.5	1796.0	1816.0	1813.1	1814.6	1793.1	1742.9	1665.6
32.5°	2141.2	2121.9	2051.7	1880.5	1836.8	1847.5	1849.0	1872.6	1876.2	1826.8	1760.1
35°	2551.7	2530.2	2439.3	2151.3	1963.6	1926.3	1926.3	1962.2	1983.6	1947.1	1907.0
37.5°	2986.6	2962.9	2914.2	2526.7	2230.1	2063.2	2059.6	2084.7	2115.5	2124.1	2134.1
40°	3480.9	3455.8	3469.4	2947.9	2601.9	2300.3	2249.4	2231.5	2314.6	2369.8	2450.0
42.5°	4021.7	4010.3	4015.3	3417.1	3025.3	2654.9	2582.5	2490.1	2590.4	2688.6	2856.9
45°	4522.5	4532.5	4527.5	3919.3	3496.6	3087.6	3010.9	2831.8	2930.0	3098.3	3372.7
47.5°	4960.9	4919.4	4983.8	4468.0	4024.6	3571.9	3477.3	3237.3	3336.9	3544.6	4008.8
50°	5493.2	5487.4	5392.9	5200.2	4662.9	4058.3	3934.3	3656.4	3811.1	4099.8	4810.5
52.5°	6052.7	5948.8	5862.1	5769.7	5339.9	4556.9	4405.0	4074.0	4368.5	4731.7	5787.6
55°	6167.3	6120.7	6228.2	6383.6	5992.5	5074.8	4897.9	4597.7	4996.0	5453.8	6914.5
57.5°	6412.3	6411.6	6633.6	6910.9	6664.5	5624.3	5445.9	5230.3	5701.6	6281.2	8110.8
60°	6577.8	6624.3	7037.0	7575.0	7324.2	6259.0	6094.9	5960.3	6504.0	7206.0	9225.5
62.5°	6664.5	6727.5	7290.6	7844.3	8257.0	7315.6	7151.6	6957.5	7565.7	8220.4	9877.4
65°	6304.1	6428.0	7251.2	8077.1	9073.6	9028.5	8954.7	8613.7	8893.1	9022.0	9641.7
67.5°	5306.9	5433.7	6392.2	7860.1	9656.8	10680.5	10696.2	10113.8	9709.8	9090.8	8106.5
70°	3781.0	3880.6	4673.6	6589.9	9212.6	11760.0	11813.8	10805.1	9547.2	8062.1	5663.7
72.5°	1795.2	1856.1	2606.9	4288.9	7310.6	10775.0	10878.9	9922.5	8118.0	5968.9	3089.7
75°	659.8	678.4	881.1	1824.6	4240.2	7946.1	8068.6	7112.9	5381.4	2971.5	1177.0
77.5°	395.4	407.6	494.3	770.1	1667.7	4541.8	4723.1	3868.4	2351.9	1106.1	578.8
80°	276.5	285.1	354.6	479.3	788.0	1730.8	1892.0	1578.9	937.0	699.9	421.2
82.5°	187.0	191.3	249.3	323.8	523.7	618.2	666.9	702.0	631.8	520.8	267.2
85°	122.5	126.8	169.1	213.5	333.1	319.5	326.7	413.3	461.3	353.9	148.3
87.5°	70.2	73.1	101.7	113.9	163.3	135.4	136.8	217.8	295.1	238.6	90.3
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°	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6
2.5°	1702.1	1692.8	1672.0	1659.1	1647.0	1644.1	1639.1	1638.4	1637.6	1637.6	1635.5
5°	1664.1	1648.4	1616.1	1598.2	1583.2	1581.8	1581.0	1584.6	1586.1	1587.5	1585.3
7.5°	1639.8	1618.3	1578.2	1552.4	1534.5	1530.2	1537.3	1553.8	1564.6	1568.9	1566.7
10°	1624.7	1598.2	1551.7	1523.7	1508.7	1506.5	1515.9	1535.2	1557.4	1566.0	1565.3
12.5°	1607.5	1577.5	1528.0	1498.7	1490.1	1494.4	1506.5	1524.4	1547.4	1561.0	1561.7
15°	1590.4	1555.3	1504.4	1478.6	1475.0	1480.8	1492.2	1505.8	1523.7	1537.3	1538.8
17.5°	1569.6	1533.0	1482.2	1455.7	1452.8	1455.7	1456.4	1463.6	1475.0	1487.9	1491.5
20°	1547.4	1510.1	1457.1	1430.6	1417.7	1406.2	1393.4	1394.8	1398.4	1411.3	1414.1
22.5°	1531.6	1494.4	1437.8	1401.2	1366.8	1332.5	1306.7	1303.1	1304.5	1315.3	1318.8
25°	1533.0	1493.6	1432.8	1369.7	1294.5	1239.3	1204.9	1199.2	1198.5	1206.4	1211.4
27.5°	1561.0	1521.6	1451.4	1337.5	1215.7	1134.0	1097.5	1093.2	1087.5	1089.6	1095.3
30°	1623.3	1586.8	1496.5	1304.5	1130.4	1030.9	992.9	988.6	980.7	977.1	981.4
32.5°	1725.0	1694.9	1562.4	1273.0	1045.2	942.8	904.1	894.8	889.7	885.4	889.0
35°	1894.1	1881.2	1650.5	1238.6	970.0	874.7	839.6	825.3	818.1	826.0	831.7
37.5°	2159.2	2166.3	1765.9	1184.9	911.9	829.6	800.2	783.7	773.0	779.4	785.9
40°	2534.5	2539.6	1893.4	1109.0	861.8	803.1	771.5	756.5	741.4	730.0	729.3
42.5°	3027.4	2976.5	2018.7	1026.6	803.8	786.6	751.5	732.9	709.9	678.4	672.0
45°	3612.0	3433.6	2114.0	932.0	738.6	766.5	729.3	703.5	667.7	633.3	629.7
47.5°	4285.4	3924.3	2160.6	833.9	677.7	737.2	702.0	661.2	616.1	598.9	596.7
50°	5107.8	4506.7	2182.8	738.6	624.7	698.5	662.6	614.7	576.7	573.1	571.0
52.5°	6044.1	5207.3	2190.0	660.5	581.0	648.3	630.4	583.8	553.8	556.6	556.6
55°	7024.1	5930.9	2092.5	603.9	540.9	596.7	608.9	571.7	546.6	558.1	562.4
57.5°	7923.8	6572.0	1785.9	560.2	502.9	557.3	601.0	583.1	565.9	612.5	615.4
60°	8614.4	6951.0	1333.9	520.8	475.0	543.7	621.8	626.8	631.1	742.2	757.2
62.5°	8759.1	6824.9	917.0	490.0	462.1	555.2	659.8	660.5	655.5	732.9	742.2
65°	8095.1	6027.6	666.9	472.8	451.3	576.0	692.0	677.0	644.0	702.8	685.6
67.5°	6428.8	4541.1	555.2	459.9	435.6	574.5	726.4	692.0	637.6	688.4	660.5
70°	4172.9	2745.9	494.3	449.2	416.9	547.3	746.5	690.6	618.9	640.4	607.5
72.5°	2035.9	1227.9	453.5	433.4	397.6	509.3	745.7	677.7	599.6	598.2	580.3
75°	796.6	562.4	416.2	409.8	364.6	466.4	725.7	659.1	576.7	553.8	547.3
77.5°	466.4	401.2	368.9	374.7	325.2	423.4	696.3	626.8	545.2	517.9	510.8
80°	339.6	300.2	314.5	323.8	278.0	380.4	656.9	587.4	510.1	523.7	513.6
82.5°	217.8	193.4	255.0	264.3	231.4	336.7	613.9	545.9	460.6	418.4	408.3
85°	111.0	122.5	189.8	201.3	178.4	276.5	561.6	490.7	404.8	348.2	353.9
87.5°	62.3	83.8	121.1	135.4	126.1	212.8	455.6	404.8	330.2	268.6	236.4
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)