

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: P200218

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200218
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: GWC-AF-02-LED-E1-T4W-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13842.6 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

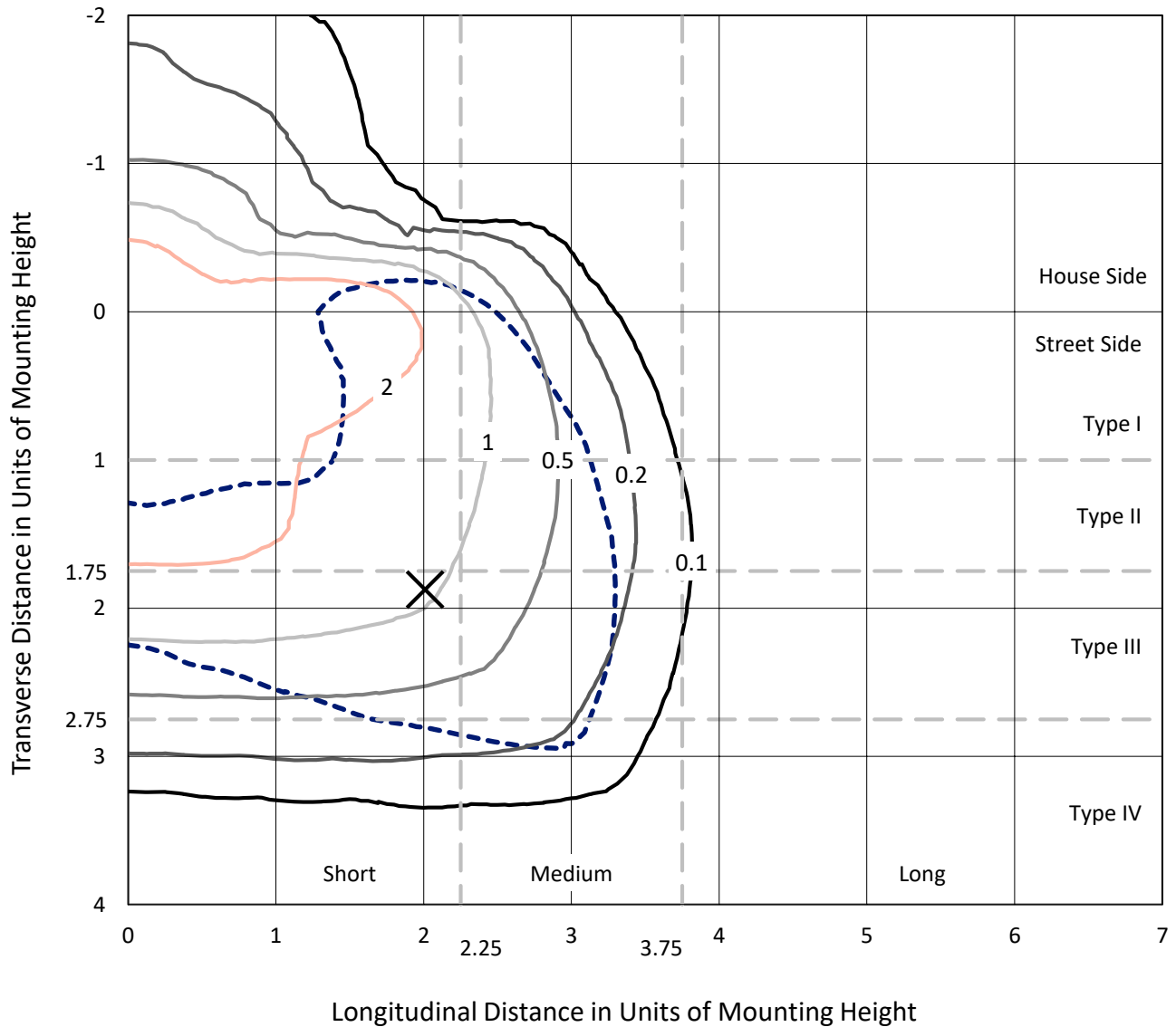
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

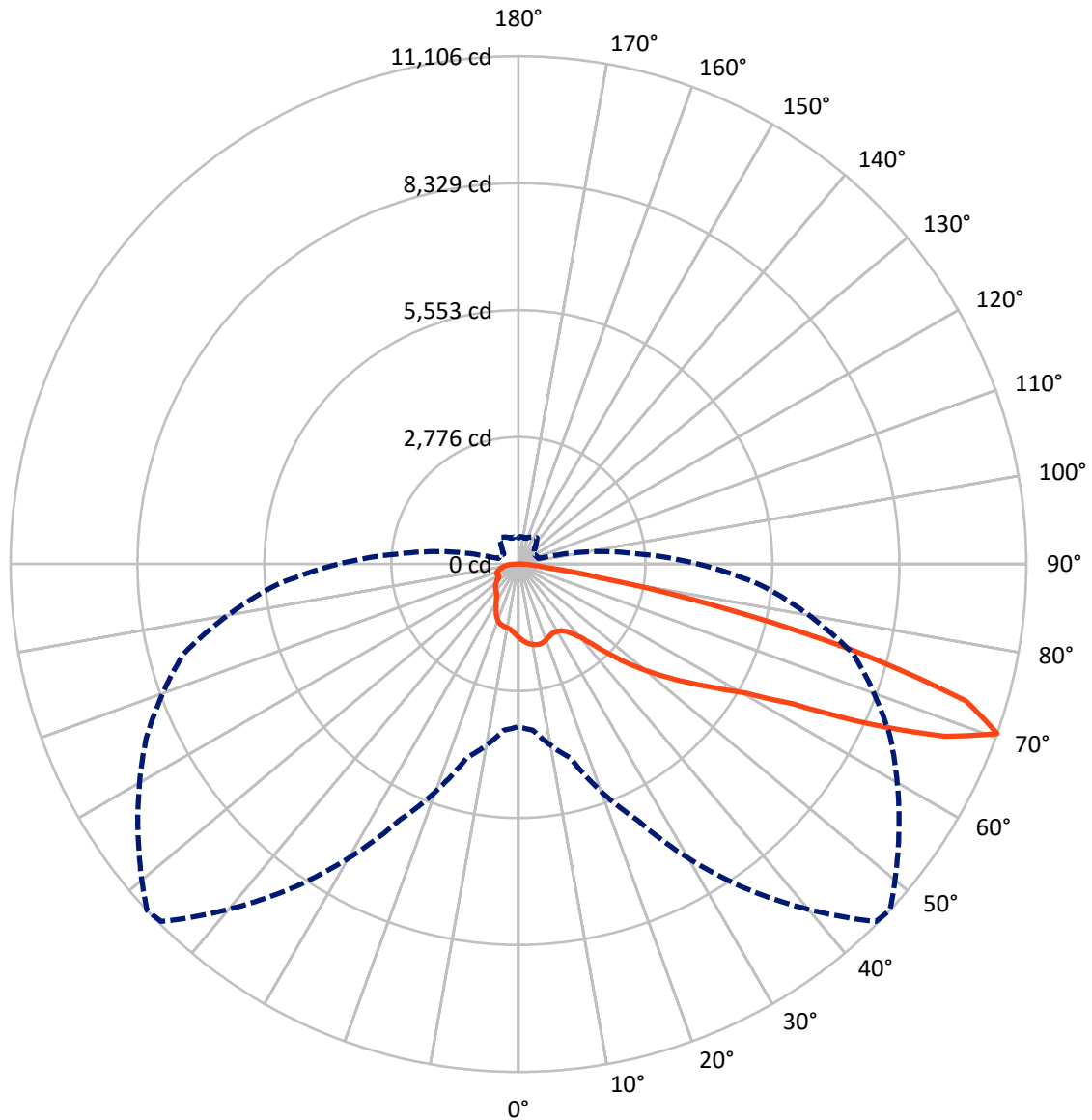
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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	2887.8	0.0	2887.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10954.7	0.0	10954.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	13842.6	0.0	13842.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.1
10°-20°	451.5	3.3
20°-30°	666.7	4.8
30°-40°	969.1	7.0
40°-50°	1744.0	12.6
50°-60°	3021.3	21.8
60°-70°	4312.3	31.2
70°-80°	2213.7	16.0
80°-90°	309.9	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°	13842.6	100.0
0°-180°	13842.6	100.0



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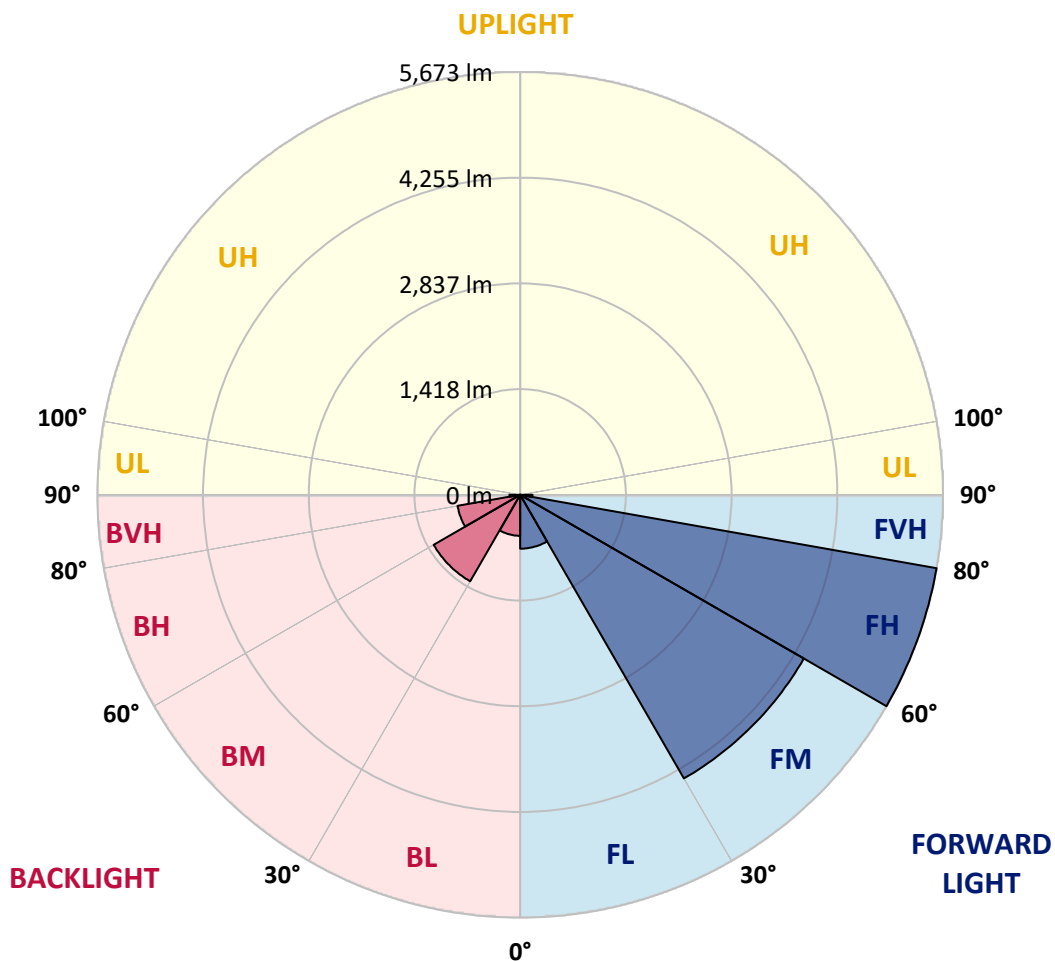
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.3	5.2			
FM	(30°-60°)	4394.0	31.7			
FH	(60°-80°)	5673.1	41.0			G3/7500
FVH	(80°-90°)	165.4	1.2			G2/225
BL	(0°-30°)	549.9	4.0	B2/1000		
BM	(30°-60°)	1340.5	9.7	B2/2500		
BH	(60°-80°)	853.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	144.6	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°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1700.5	1697.1	1695.7	1693.1	1689.7	1672.8	1669.5	1657.4	1640.5	1623.0	1604.8
5°	1812.3	1811.5	1804.2	1790.7	1769.2	1732.1	1723.4	1693.7	1654.0	1615.5	1577.2
7.5°	1910.6	1904.5	1890.4	1863.4	1825.8	1775.2	1763.1	1722.0	1667.4	1614.9	1563.1
10°	1982.6	1979.3	1948.3	1911.3	1862.1	1806.2	1792.0	1746.3	1686.3	1619.6	1555.0
12.5°	2023.7	2017.0	1981.3	1936.9	1878.2	1823.7	1809.6	1763.1	1695.7	1619.6	1543.5
15°	2021.0	2016.3	1980.6	1932.1	1872.8	1825.0	1812.3	1765.8	1693.7	1612.9	1528.7
17.5°	1967.1	1969.2	1938.9	1891.0	1842.5	1806.2	1794.8	1751.6	1680.3	1599.4	1511.2
20°	1872.8	1882.3	1862.1	1819.6	1792.7	1767.8	1760.4	1724.0	1659.3	1579.9	1492.4
22.5°	1778.6	1787.3	1779.2	1743.5	1739.5	1724.7	1720.7	1694.4	1641.2	1567.8	1480.9
25°	1709.2	1717.3	1715.9	1685.0	1697.1	1696.5	1693.1	1680.3	1637.1	1567.8	1483.0
27.5°	1690.3	1693.1	1690.3	1662.1	1678.9	1692.4	1689.7	1687.7	1649.3	1587.3	1508.5
30°	1755.0	1751.0	1730.1	1672.8	1688.4	1707.2	1704.5	1705.9	1685.6	1638.5	1565.7
32.5°	2013.0	1994.8	1928.8	1767.8	1726.7	1736.9	1738.2	1760.4	1763.8	1717.3	1654.6
35°	2398.8	2378.6	2293.0	2022.4	1845.9	1810.9	1810.9	1844.6	1864.7	1830.5	1792.7
37.5°	2807.6	2785.4	2739.6	2375.3	2096.4	1939.5	1936.1	1959.8	1988.7	1996.8	2006.2
40°	3272.3	3248.7	3261.5	2771.3	2446.0	2162.4	2114.6	2097.8	2175.9	2227.8	2303.2
42.5°	3780.7	3770.0	3774.7	3212.4	2844.0	2495.8	2427.8	2340.9	2435.1	2527.4	2685.7
45°	4251.5	4260.9	4256.2	3684.5	3287.0	2902.5	2830.5	2662.1	2754.4	2912.6	3170.5
47.5°	4663.6	4624.6	4685.1	4200.2	3783.4	3357.8	3268.9	3043.3	3136.9	3332.3	3768.7
50°	5164.0	5158.6	5069.7	4888.6	4383.4	3815.1	3698.6	3437.3	3582.8	3854.2	4522.2
52.5°	5690.0	5592.3	5510.8	5423.9	5019.8	4283.8	4141.0	3829.9	4106.6	4448.1	5440.8
55°	5797.7	5753.9	5855.0	6001.0	5633.4	4770.7	4604.3	4322.2	4696.6	5126.9	6500.1
57.5°	6028.0	6027.3	6236.1	6496.8	6265.1	5287.2	5119.6	4916.8	5360.0	5904.8	7624.8
60°	6183.5	6227.3	6615.2	7121.1	6885.3	5883.9	5729.6	5603.1	6114.2	6774.2	8672.7
62.5°	6265.1	6324.3	6853.7	7374.2	7762.2	6877.2	6723.0	6540.5	7112.3	7727.8	9285.4
65°	5926.4	6042.9	6816.6	7593.1	8529.9	8487.4	8418.1	8097.5	8360.2	8481.4	9064.0
67.5°	4988.9	5108.1	6009.1	7389.1	9078.1	10040.4	10055.2	9507.7	9127.9	8546.0	7620.7
70°	3554.4	3648.0	4393.6	6195.0	8660.5	11055.3	11105.8	10157.6	8975.1	7578.9	5324.3
72.5°	1687.7	1744.9	2450.7	4032.0	6872.5	10129.3	10227.0	9327.9	7631.5	5611.2	2904.6
75°	620.2	637.7	828.4	1715.3	3986.1	7469.9	7585.0	6686.6	5058.9	2793.5	1106.4
77.5°	371.7	383.2	464.7	723.9	1567.8	4269.7	4440.0	3636.6	2210.9	1039.8	544.1
80°	259.9	268.0	333.4	450.5	740.8	1627.0	1778.6	1484.3	880.9	658.0	396.0
82.5°	175.7	179.8	234.4	304.4	492.2	581.1	627.0	660.0	594.0	489.6	251.2
85°	115.2	119.2	159.0	200.7	313.1	300.3	307.1	388.6	433.7	332.7	139.4
87.5°	66.0	68.7	95.6	107.1	153.5	127.3	128.6	204.7	277.4	224.2	84.9
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°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1600.1	1591.3	1571.9	1559.7	1548.2	1545.6	1540.9	1540.2	1539.5	1539.5	1537.5
5°	1564.4	1549.6	1519.3	1502.4	1488.3	1487.0	1486.2	1489.6	1491.1	1492.4	1490.3
7.5°	1541.5	1521.3	1483.6	1459.3	1442.6	1438.5	1445.2	1460.7	1470.8	1474.9	1472.8
10°	1527.4	1502.4	1458.7	1432.4	1418.3	1416.3	1425.0	1443.2	1464.0	1472.1	1471.5
12.5°	1511.2	1483.0	1436.4	1408.8	1400.7	1404.8	1416.3	1433.1	1454.6	1467.4	1468.1
15°	1495.0	1462.0	1414.2	1390.0	1386.6	1392.0	1402.8	1415.6	1432.4	1445.2	1446.6
17.5°	1475.5	1441.1	1393.4	1368.4	1365.7	1368.4	1369.1	1375.9	1386.6	1398.8	1402.2
20°	1454.6	1419.7	1369.8	1344.9	1332.7	1322.0	1309.9	1311.2	1314.6	1326.7	1329.4
22.5°	1439.8	1404.8	1351.6	1317.3	1284.9	1252.6	1228.4	1225.0	1226.3	1236.4	1239.8
25°	1441.1	1404.1	1346.9	1287.6	1216.9	1165.0	1132.7	1127.4	1126.7	1134.0	1138.7
27.5°	1467.4	1430.4	1364.4	1257.3	1142.8	1066.0	1031.7	1027.7	1022.3	1024.3	1029.7
30°	1526.0	1491.7	1406.9	1226.3	1062.7	969.0	933.4	929.4	922.0	918.6	922.6
32.5°	1621.7	1593.3	1468.8	1196.8	982.5	886.3	849.9	841.2	836.5	832.4	835.8
35°	1780.5	1768.5	1551.6	1164.4	911.9	822.2	789.3	775.8	769.1	776.5	781.8
37.5°	2029.7	2036.5	1660.0	1113.9	857.3	779.9	752.3	736.7	726.6	732.7	738.8
40°	2382.7	2387.4	1779.9	1042.5	810.2	754.9	725.3	711.2	697.0	686.2	685.6
42.5°	2846.0	2798.2	1897.8	965.1	755.7	739.5	706.4	689.0	667.4	637.7	631.7
45°	3395.5	3227.8	1987.4	876.2	694.3	720.6	685.6	661.3	627.7	595.4	592.0
47.5°	4028.6	3689.2	2031.1	783.9	637.1	692.9	660.0	621.5	579.2	563.0	561.0
50°	4801.6	4236.7	2052.0	694.3	587.3	656.6	623.0	577.9	542.2	538.8	536.7
52.5°	5681.9	4895.3	2058.7	620.9	546.2	609.5	592.6	548.8	520.6	523.2	523.2
55°	6603.1	5575.5	1967.1	567.7	508.4	561.0	572.4	537.5	513.8	524.6	528.7
57.5°	7449.0	6178.2	1678.9	526.6	472.8	524.0	565.0	548.2	532.0	575.8	578.5
60°	8098.2	6534.4	1253.9	489.6	446.5	511.2	584.5	589.2	593.3	697.7	711.9
62.5°	8234.2	6415.9	862.0	460.6	434.3	521.9	620.2	620.9	616.2	689.0	697.7
65°	7609.9	5666.3	627.0	444.5	424.3	541.4	650.6	636.4	605.4	660.6	644.5
67.5°	6043.5	4269.0	521.9	432.4	409.5	540.1	682.9	650.6	599.3	647.2	620.9
70°	3922.8	2581.3	464.7	422.3	392.0	514.5	701.7	649.2	581.9	602.1	571.1
72.5°	1913.9	1154.3	426.3	407.4	373.8	478.8	701.0	637.1	563.6	562.3	545.5
75°	748.9	528.7	391.3	385.2	342.8	438.4	682.2	619.6	542.2	520.6	514.5
77.5°	438.4	377.2	346.8	352.2	305.8	398.0	654.6	589.2	512.5	486.9	480.2
80°	319.3	282.1	295.6	304.4	261.3	357.6	617.6	552.2	479.5	492.2	482.8
82.5°	204.7	181.9	239.8	248.5	217.5	316.5	577.1	513.2	433.0	393.3	383.9
85°	104.3	115.2	178.5	189.2	167.7	259.9	527.9	461.4	380.5	327.3	332.7
87.5°	58.6	78.8	113.9	127.3	118.6	200.0	428.3	380.5	310.5	252.6	222.3
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)