

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: P200376

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200376  
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-7050  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 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: 12336 lumens  
Efficiency: N/A  
Efficacy: 109.2 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): 113  
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

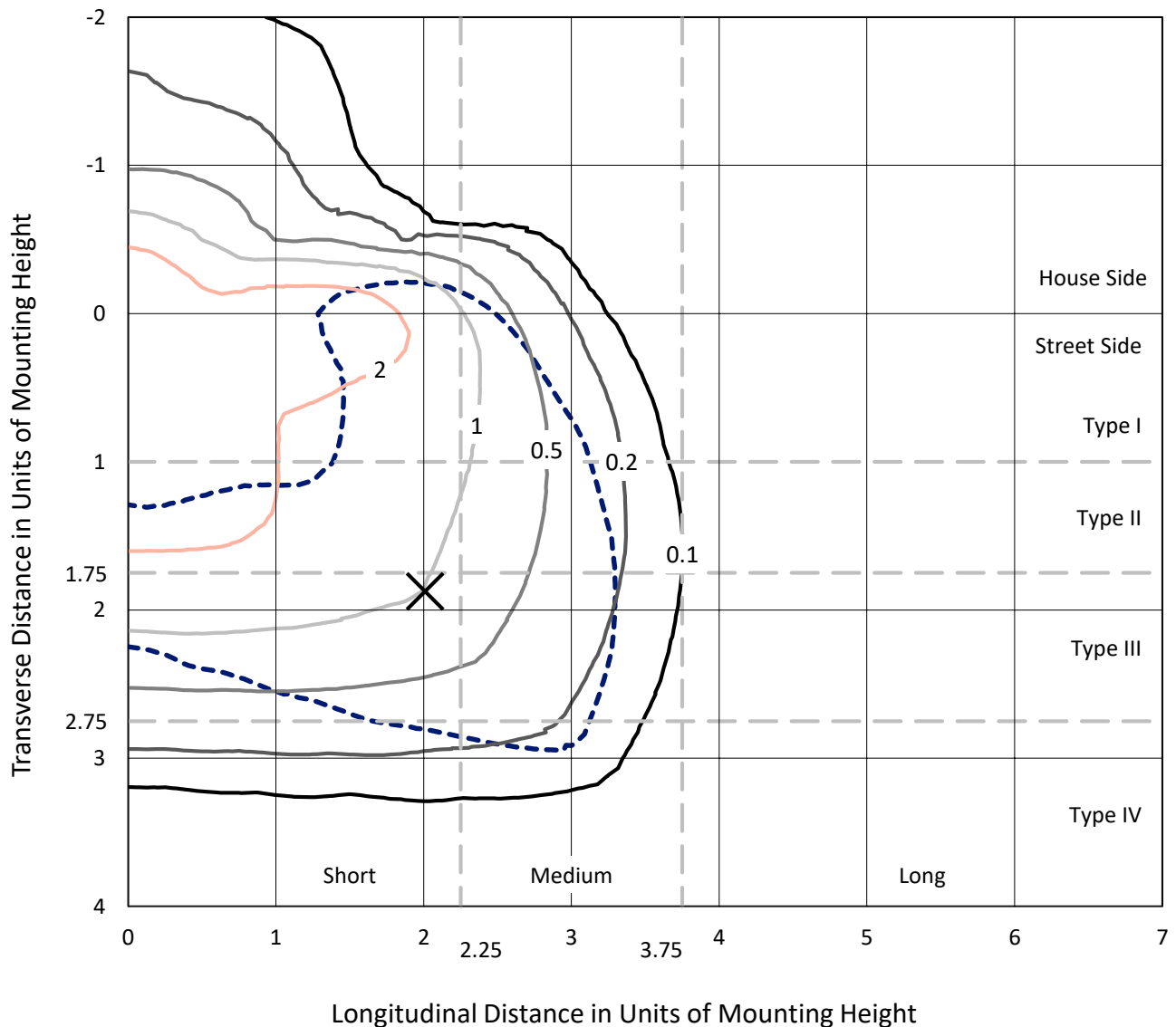


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

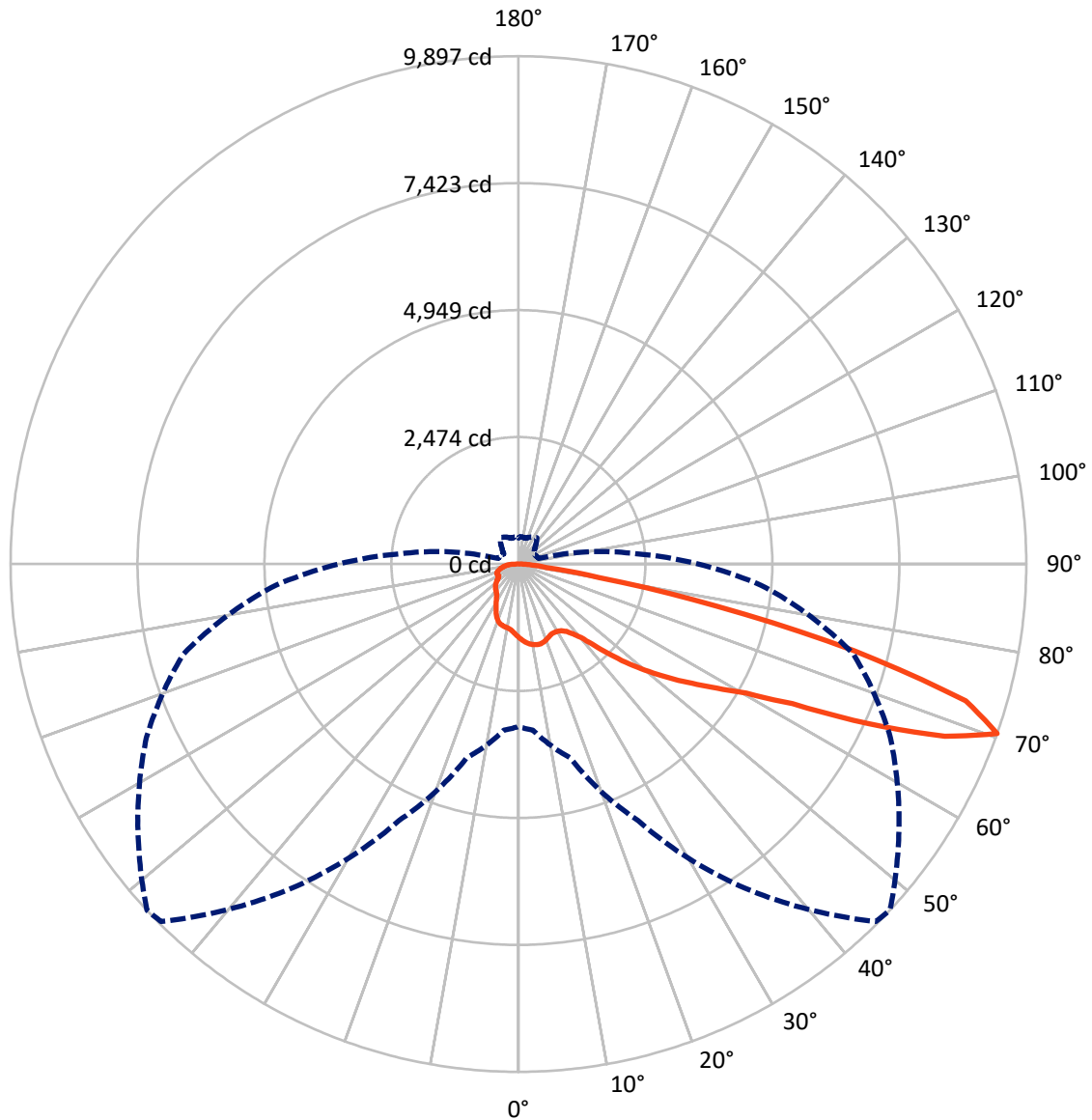


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Semi-Cutoff

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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	2573.5	0.0	2573.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	9762.5	0.0	9762.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	12336.0	0.0	12336.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	1.1
10°-20°	402.4	3.3
20°-30°	594.2	4.8
30°-40°	863.6	7.0
40°-50°	1554.2	12.6
50°-60°	2692.5	21.8
60°-70°	3843.0	31.2
70°-80°	1972.8	16.0
80°-90°	276.2	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°	12336.0	100.0
0°-180°	12336.0	100.0



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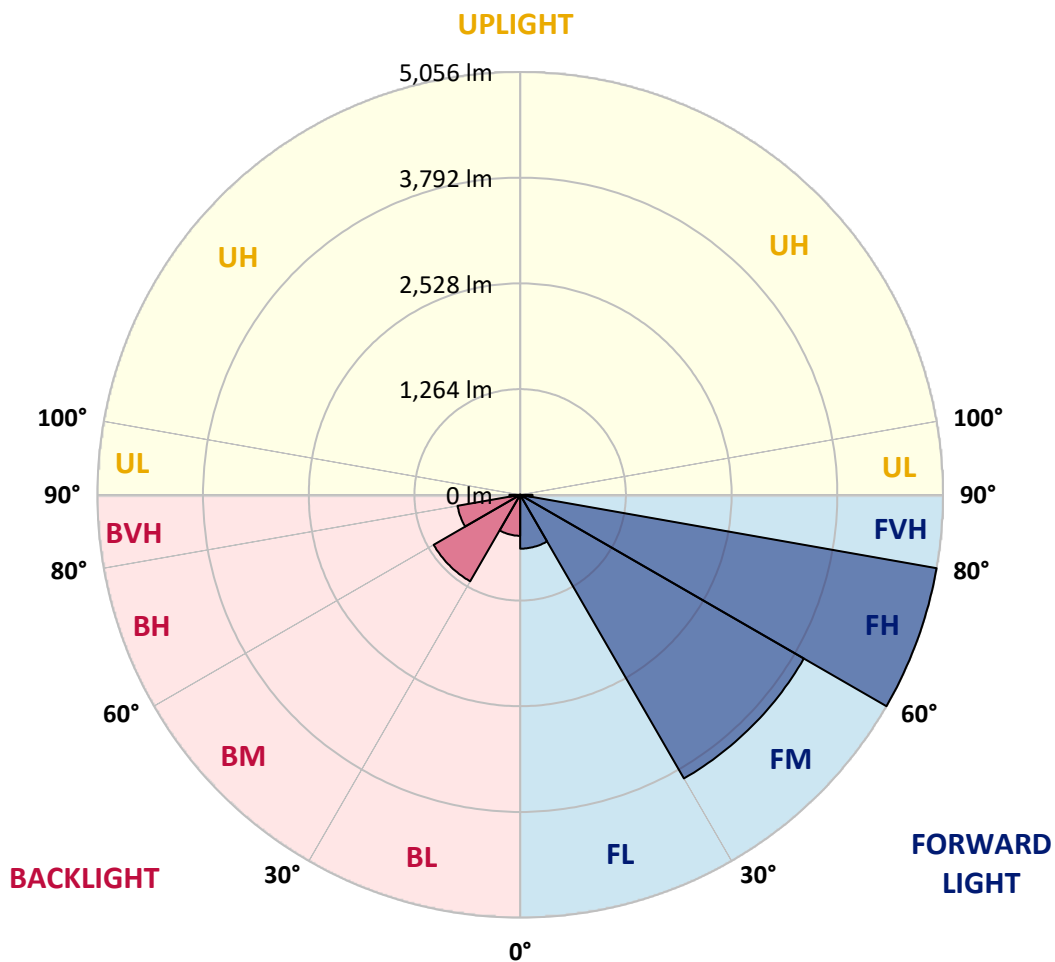
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.7	5.2			
FM	(30°-60°)	3915.8	31.7			
FH	(60°-80°)	5055.6	41.0			G3/7500
FVH	(80°-90°)	147.4	1.2			G2/225
BL	(0°-30°)	490.0	4.0	B1/500		
BM	(30°-60°)	1194.6	9.7	B2/2500		
BH	(60°-80°)	760.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	128.8	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°	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1515.4	1512.4	1511.2	1508.8	1505.8	1490.8	1487.8	1477.0	1462.0	1446.4	1430.2
5°	1615.0	1614.4	1607.8	1595.8	1576.6	1543.6	1535.8	1509.4	1474.0	1439.8	1405.6
7.5°	1702.6	1697.2	1684.6	1660.6	1627.0	1582.0	1571.2	1534.6	1486.0	1439.2	1393.0
10°	1766.8	1763.8	1736.2	1703.2	1659.4	1609.6	1597.0	1556.2	1502.8	1443.4	1385.7
12.5°	1803.5	1797.5	1765.6	1726.0	1673.8	1625.2	1612.6	1571.2	1511.2	1443.4	1375.5
15°	1801.1	1796.9	1765.0	1721.8	1669.0	1626.4	1615.0	1573.6	1509.4	1437.4	1362.3
17.5°	1753.0	1754.8	1727.8	1685.2	1642.0	1609.6	1599.4	1561.0	1497.4	1425.4	1346.7
20°	1669.0	1677.4	1659.4	1621.6	1597.6	1575.4	1568.8	1536.4	1478.8	1408.0	1329.9
22.5°	1585.0	1592.8	1585.6	1553.8	1550.2	1537.0	1533.4	1510.0	1462.6	1397.2	1319.7
25°	1523.2	1530.4	1529.2	1501.6	1512.4	1511.8	1508.8	1497.4	1459.0	1397.2	1321.5
27.5°	1506.4	1508.8	1506.4	1481.2	1496.2	1508.2	1505.8	1504.0	1469.8	1414.6	1344.3
30°	1564.0	1560.4	1541.8	1490.8	1504.6	1521.4	1519.0	1520.2	1502.2	1460.2	1395.4
32.5°	1793.9	1777.6	1718.8	1575.4	1538.8	1547.8	1549.0	1568.8	1571.8	1530.4	1474.6
35°	2137.7	2119.7	2043.5	1802.3	1645.0	1613.8	1613.8	1643.8	1661.8	1631.2	1597.6
37.5°	2502.0	2482.2	2441.4	2116.7	1868.3	1728.4	1725.4	1746.4	1772.2	1779.4	1787.8
40°	2916.1	2895.1	2906.5	2469.6	2179.7	1927.1	1884.5	1869.5	1939.1	1985.3	2052.5
42.5°	3369.2	3359.6	3363.8	2862.7	2534.4	2224.2	2163.5	2086.1	2170.1	2252.4	2393.4
45°	3788.8	3797.2	3793.0	3283.4	2929.3	2586.7	2522.4	2372.4	2454.6	2595.7	2825.5
47.5°	4156.0	4121.2	4175.3	3743.1	3371.6	2992.4	2913.1	2712.1	2795.5	2969.5	3358.4
50°	4602.0	4597.2	4517.9	4356.5	3906.4	3399.9	3296.0	3063.2	3192.8	3434.7	4030.0
52.5°	5070.7	4983.7	4911.0	4833.6	4473.5	3817.6	3690.3	3413.1	3659.7	3964.0	4848.6
55°	5166.7	5127.7	5217.7	5347.9	5020.3	4251.5	4103.2	3851.8	4185.5	4568.9	5792.7
57.5°	5372.0	5371.4	5557.4	5789.7	5583.2	4711.8	4562.3	4381.7	4776.6	5262.1	6794.9
60°	5510.6	5549.6	5895.3	6346.0	6135.9	5243.5	5106.1	4993.3	5448.8	6036.9	7728.7
62.5°	5583.2	5636.0	6107.7	6571.7	6917.3	6128.7	5991.3	5828.7	6338.2	6886.7	8274.9
65°	5281.3	5385.2	6074.7	6766.7	7601.5	7563.7	7501.9	7216.2	7450.3	7558.3	8077.4
67.5°	4445.9	4552.1	5355.1	6584.9	8090.0	8947.7	8960.9	8472.9	8134.4	7615.9	6791.3
70°	3167.6	3251.0	3915.4	5520.8	7717.9	9852.1	9897.1	9052.1	7998.2	6754.1	4744.8
72.5°	1504.0	1555.0	2183.9	3593.1	6124.5	9026.9	9113.9	8312.7	6800.9	5000.5	2588.5
75°	552.7	568.3	738.2	1528.6	3552.3	6656.9	6759.5	5958.9	4508.3	2489.4	986.0
77.5°	331.3	341.5	414.1	645.2	1397.2	3805.0	3956.8	3240.8	1970.3	926.6	484.9
80°	231.7	238.9	297.1	401.5	660.2	1450.0	1585.0	1322.7	785.0	586.3	352.9
82.5°	156.6	160.2	208.9	271.3	438.7	517.9	558.7	588.1	529.3	436.3	223.9
85°	102.6	106.2	141.6	178.8	279.1	267.7	273.7	346.3	386.5	296.5	124.2
87.5°	58.8	61.2	85.2	95.4	136.8	113.4	114.6	182.4	247.3	199.9	75.6
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°	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1426.0	1418.2	1400.8	1389.9	1379.7	1377.3	1373.1	1372.5	1371.9	1371.9	1370.1
5°	1394.2	1380.9	1353.9	1338.9	1326.3	1325.1	1324.5	1327.5	1328.7	1329.9	1328.1
7.5°	1373.7	1355.7	1322.1	1300.5	1285.5	1281.9	1287.9	1301.7	1310.7	1314.3	1312.5
10°	1361.1	1338.9	1299.9	1276.5	1263.9	1262.1	1269.9	1286.1	1304.7	1311.9	1311.3
12.5°	1346.7	1321.5	1280.1	1255.5	1248.3	1251.9	1262.1	1277.1	1296.3	1307.7	1308.3
15°	1332.3	1302.9	1260.3	1238.7	1235.7	1240.5	1250.1	1261.5	1276.5	1287.9	1289.1
17.5°	1314.9	1284.3	1241.7	1219.5	1217.1	1219.5	1220.1	1226.1	1235.7	1246.5	1249.5
20°	1296.3	1265.1	1220.7	1198.5	1187.7	1178.1	1167.3	1168.5	1171.5	1182.3	1184.7
22.5°	1283.1	1251.9	1204.5	1173.9	1145.1	1116.3	1094.7	1091.7	1092.9	1101.9	1104.9
25°	1284.3	1251.3	1200.3	1147.5	1084.5	1038.3	1009.5	1004.7	1004.1	1010.7	1014.9
27.5°	1307.7	1274.7	1215.9	1120.5	1018.5	950.0	919.4	915.8	911.0	912.8	917.6
30°	1359.9	1329.3	1253.7	1092.9	947.0	863.6	831.8	828.2	821.6	818.6	822.2
32.5°	1445.2	1420.0	1308.9	1066.5	875.6	789.8	757.4	749.6	745.4	741.8	744.8
35°	1586.8	1576.0	1382.7	1037.7	812.6	732.8	703.4	691.4	685.4	692.0	696.8
37.5°	1808.9	1814.9	1479.4	992.6	764.0	695.0	670.4	656.6	647.6	653.0	658.4
40°	2123.3	2127.5	1586.2	929.0	722.0	672.8	646.4	633.8	621.2	611.6	611.0
42.5°	2536.2	2493.6	1691.2	860.0	673.4	659.0	629.6	614.0	594.7	568.3	562.9
45°	3026.0	2876.5	1771.0	780.8	618.8	642.2	611.0	589.3	559.3	530.5	527.5
47.5°	3590.1	3287.6	1810.1	698.6	567.7	617.6	588.1	553.9	516.1	501.7	499.9
50°	4279.1	3775.5	1828.7	618.8	523.3	585.1	555.1	514.9	483.1	480.1	478.3
52.5°	5063.5	4362.5	1834.7	553.3	486.7	543.1	528.1	489.1	463.9	466.3	466.3
55°	5884.5	4968.6	1753.0	505.9	453.1	499.9	510.1	478.9	457.9	467.5	471.1
57.5°	6638.3	5505.8	1496.2	469.3	421.3	466.9	503.5	488.5	474.1	513.1	515.5
60°	7216.8	5823.3	1117.5	436.3	397.9	455.5	520.9	525.1	528.7	621.8	634.4
62.5°	7338.0	5717.6	768.2	410.5	387.1	465.1	552.7	553.3	549.1	614.0	621.8
65°	6781.7	5049.7	558.7	396.1	378.1	482.5	579.7	567.1	539.5	588.7	574.3
67.5°	5385.8	3804.4	465.1	385.3	364.9	481.3	608.6	579.7	534.1	576.7	553.3
70°	3495.9	2300.4	414.1	376.3	349.3	458.5	625.4	578.5	518.5	536.5	508.9
72.5°	1705.6	1028.7	379.9	363.1	333.1	426.7	624.8	567.7	502.3	501.1	486.1
75°	667.4	471.1	348.7	343.3	305.5	390.7	608.0	552.1	483.1	463.9	458.5
77.5°	390.7	336.1	309.1	313.9	272.5	354.7	583.3	525.1	456.7	433.9	427.9
80°	284.5	251.5	263.5	271.3	232.9	318.7	550.3	492.1	427.3	438.7	430.3
82.5°	182.4	162.0	213.7	221.5	193.8	282.1	514.3	457.3	385.9	350.5	342.1
85°	93.0	102.6	159.0	168.6	149.4	231.7	470.5	411.1	339.1	291.7	296.5
87.5°	52.2	70.2	101.4	113.4	105.6	178.2	381.7	339.1	276.7	225.1	198.0
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)