

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: P200352

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7050  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12425 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

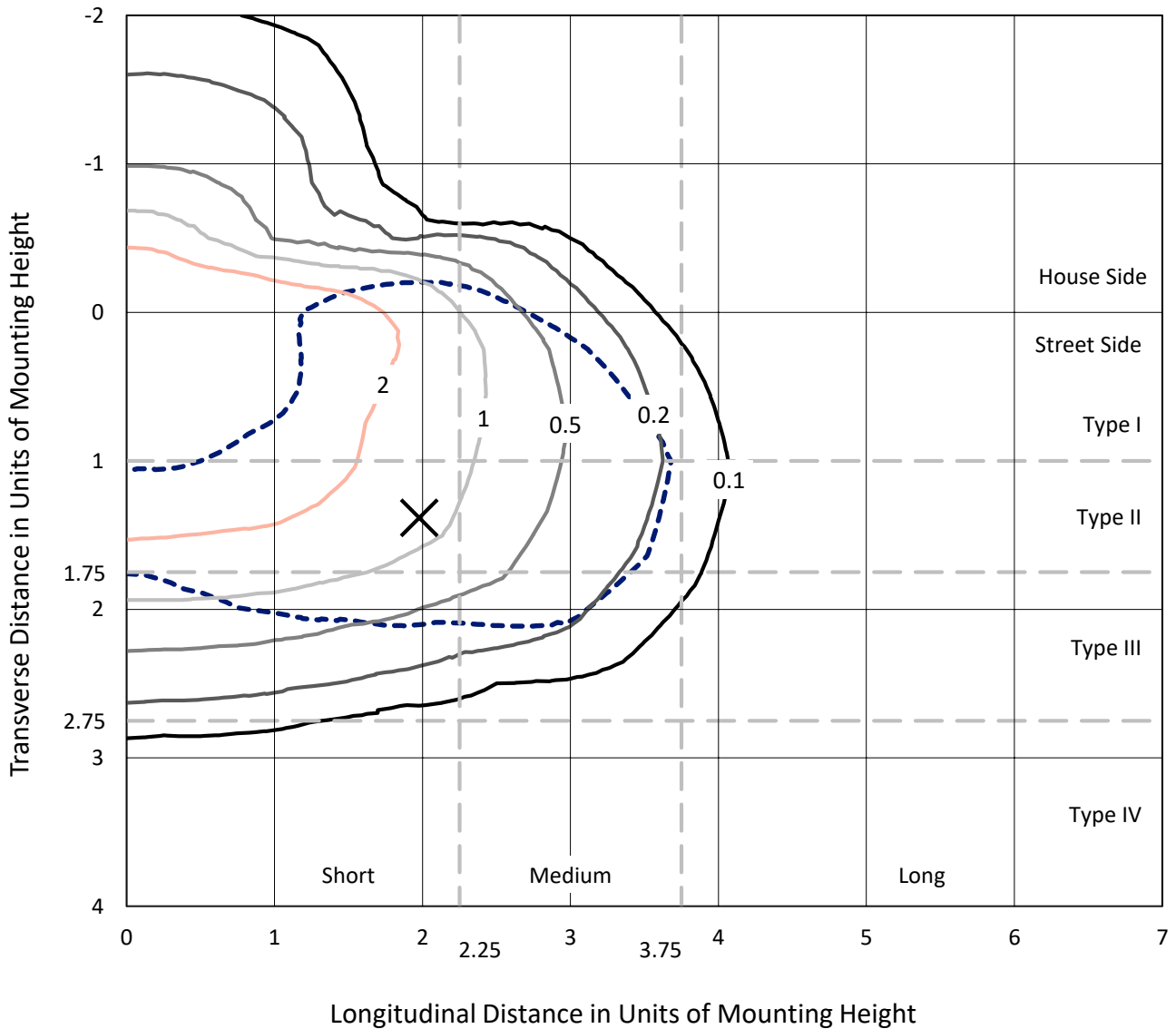
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: GWC-AF-02-LED-E1-T3-7050

### Iso-Footcandle Lines of Horizontal Illumination

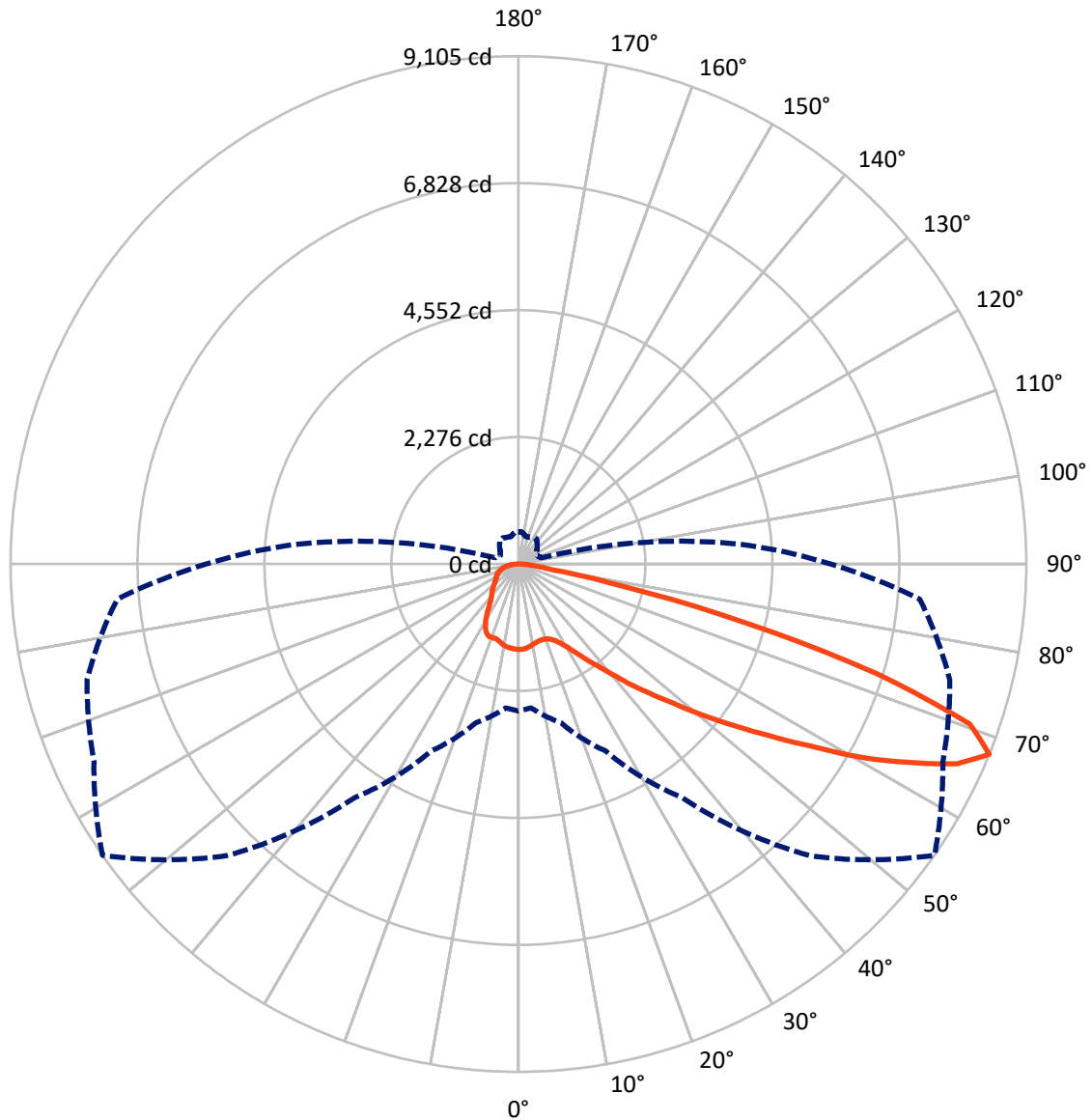
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P200352  
CATALOG NUMBER: GWC-AF-02-LED-E1-T3-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWC-AF-02-LED-E1-T3-7050

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2684.0	0.0	2684.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9740.9	0.0	9740.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12425.0	0.0	12425.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	1.2
10°-20°	405.0	3.3
20°-30°	678.5	5.5
30°-40°	1115.7	9.0
40°-50°	1878.0	15.1
50°-60°	2955.9	23.8
60°-70°	3527.5	28.4
70°-80°	1514.8	12.2
80°-90°	206.5	1.7
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°	12425.0	100.0
0°-180°	12425.0	100.0



REPORT NUMBER: P200352

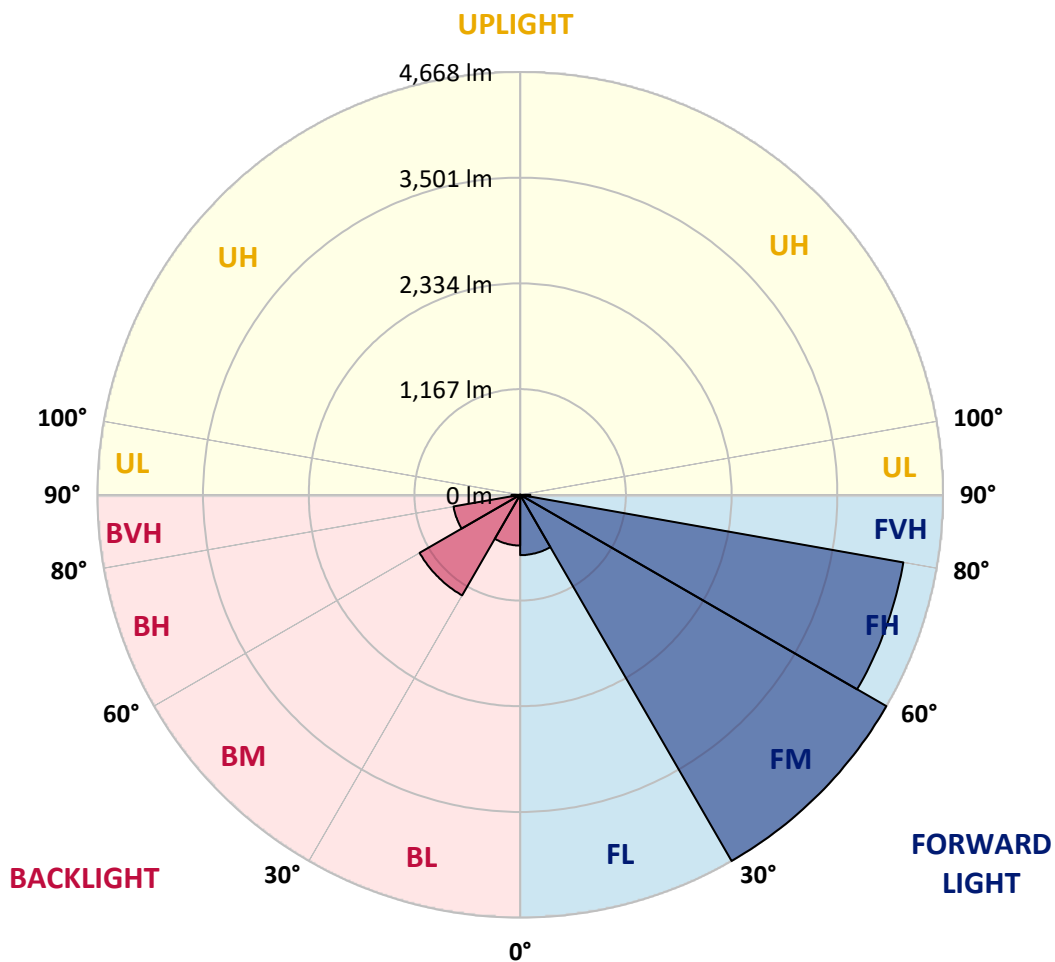
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.0	5.4			
FM	(30°-60°)	4667.7	37.6			
FH	(60°-80°)	4295.4	34.6			G2/5000
FVH	(80°-90°)	111.8	0.9			G2/225
BL	(0°-30°)	560.5	4.5	B2/1000		
BM	(30°-60°)	1281.9	10.3	B2/2500		
BH	(60°-80°)	747.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	94.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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CATALOG NUMBER: GWC-AF-02-LED-E1-T3-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1518.9	1519.5	1520.7	1525.5	1529.7	1528.5	1529.1	1526.7	1526.1	1522.5	1526.1
5°	1499.7	1501.5	1502.1	1509.9	1514.7	1515.9	1514.1	1511.1	1507.5	1503.9	1505.7
7.5°	1455.9	1460.7	1461.3	1472.1	1479.9	1490.1	1490.7	1491.3	1489.5	1487.1	1490.7
10°	1428.3	1429.5	1428.9	1436.7	1442.7	1454.1	1460.7	1472.1	1476.9	1478.1	1480.5
12.5°	1426.5	1425.3	1423.5	1423.5	1421.7	1426.5	1438.5	1454.7	1466.1	1469.7	1472.7
15°	1445.7	1445.1	1439.1	1430.1	1418.7	1415.1	1425.3	1443.3	1458.3	1466.1	1469.1
17.5°	1488.9	1485.3	1475.7	1455.3	1430.7	1421.1	1422.3	1437.3	1454.7	1464.9	1467.9
20°	1568.1	1568.1	1547.7	1509.3	1465.5	1442.7	1431.9	1440.9	1457.7	1471.5	1475.7
22.5°	1705.0	1706.2	1672.0	1609.0	1535.1	1486.5	1459.5	1457.7	1477.5	1493.1	1497.9
25°	1898.8	1894.0	1846.0	1756.0	1643.8	1563.3	1516.5	1505.7	1522.5	1539.9	1545.9
27.5°	2124.5	2107.1	2050.1	1941.4	1796.2	1678.6	1606.6	1589.2	1605.4	1625.2	1631.2
30°	2347.7	2329.7	2261.9	2143.1	1981.6	1832.8	1729.6	1701.4	1724.2	1752.4	1756.0
32.5°	2571.0	2571.0	2495.4	2356.7	2180.9	2017.0	1893.4	1859.8	1897.6	1931.8	1939.6
35°	2838.0	2839.2	2766.0	2599.2	2410.1	2236.7	2100.5	2075.9	2132.9	2156.9	2175.5
37.5°	3166.3	3172.9	3078.7	2877.0	2670.0	2487.5	2325.5	2291.9	2348.9	2414.3	2474.3
40°	3521.0	3529.4	3425.6	3177.1	2970.1	2779.2	2604.0	2543.4	2638.2	2763.0	2840.4
42.5°	3859.5	3902.7	3802.4	3546.8	3324.1	3126.7	2949.1	2860.8	2979.7	3168.1	3235.3
45°	4348.6	4379.8	4205.1	3973.5	3764.0	3543.2	3307.9	3214.9	3381.1	3618.8	3632.6
47.5°	4674.4	4651.0	4562.2	4418.2	4285.5	4079.1	3725.0	3623.0	3843.8	4123.5	4046.1
50°	4847.9	4855.1	4843.1	4851.5	4856.3	4726.6	4236.3	4096.5	4360.0	4697.8	4519.6
52.5°	5009.9	4961.9	5001.5	5198.3	5436.0	5388.0	4792.7	4646.8	4913.3	5335.2	5020.1
55°	5006.3	4933.1	5062.1	5409.6	5925.1	5980.3	5417.4	5249.4	5498.4	6018.7	5550.6
57.5°	4829.3	4832.9	5031.5	5486.4	6266.0	6537.2	6142.4	5890.3	6119.0	6711.3	6034.9
60°	4585.6	4618.6	4904.9	5473.8	6539.0	6993.9	7031.8	6581.1	6726.9	7340.8	6435.8
62.5°	4192.5	4227.3	4622.2	5343.0	6497.6	7433.8	7835.9	7364.8	7362.4	7722.5	6553.4
65°	3572.6	3562.4	3977.1	4853.9	6150.2	7759.1	8634.7	8042.4	7841.3	7728.5	6317.0
67.5°	2634.6	2589.0	2944.9	3696.8	5111.9	7394.8	9104.6	8395.3	8004.6	7220.2	5594.4
70°	1367.1	1321.5	1609.6	2158.7	3361.9	5771.5	8584.3	8212.8	7643.9	6052.3	4382.8
72.5°	584.5	576.7	693.8	947.0	1626.4	3328.9	6731.1	7108.6	6558.8	4509.4	3013.3
75°	393.1	390.7	434.5	516.1	731.6	1350.9	4212.3	5045.9	4798.7	2796.0	1694.8
77.5°	308.5	305.5	331.3	370.9	474.1	532.9	1869.4	2709.0	2507.4	1217.1	741.8
80°	241.3	238.9	255.1	276.7	340.9	336.1	615.1	1077.8	834.2	466.3	360.7
82.5°	190.2	190.2	203.4	204.0	241.9	229.3	321.1	474.7	416.5	271.9	220.8
85°	174.0	174.0	187.8	152.4	157.8	144.6	199.2	281.5	264.1	111.6	96.0
87.5°	87.6	85.2	157.8	135.0	85.8	76.8	97.2	136.2	146.4	61.8	48.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1524.9	1524.3	1525.5	1526.1	1530.9	1537.5	1540.5	1544.7	1547.1	1545.9
5°	1506.9	1508.1	1512.9	1516.5	1524.9	1535.7	1541.7	1546.5	1550.7	1548.9
7.5°	1491.9	1494.9	1502.1	1505.1	1509.9	1512.9	1512.3	1514.1	1517.7	1513.5
10°	1483.5	1487.1	1492.5	1488.3	1476.9	1460.7	1445.7	1437.9	1440.3	1437.3
12.5°	1475.1	1479.9	1475.7	1455.9	1424.1	1403.1	1391.7	1392.9	1398.3	1399.5
15°	1470.3	1472.1	1454.1	1416.9	1384.5	1381.5	1387.5	1386.3	1386.9	1386.9
17.5°	1470.3	1465.5	1431.9	1394.7	1380.9	1375.5	1356.9	1333.5	1323.3	1319.7
20°	1478.1	1465.5	1424.7	1400.1	1370.1	1323.9	1274.7	1231.5	1212.3	1206.9
22.5°	1501.5	1479.9	1445.1	1402.5	1317.3	1239.9	1161.9	1110.2	1075.4	1069.4
25°	1548.9	1524.9	1485.3	1370.7	1233.3	1122.8	1034.0	976.4	941.6	936.8
27.5°	1631.8	1616.2	1506.9	1300.5	1121.6	1003.4	921.2	876.8	851.0	849.2
30°	1756.6	1748.8	1496.1	1196.7	984.2	887.6	848.0	822.2	803.0	802.4
32.5°	1955.8	1892.8	1460.7	1070.0	858.8	805.4	789.2	773.6	758.6	758.6
35°	2212.1	2009.2	1393.5	934.4	782.6	759.8	739.4	714.8	695.0	693.8
37.5°	2513.4	2081.3	1272.9	825.2	746.6	729.2	699.2	662.5	627.7	621.7
40°	2817.6	2102.9	1103.0	758.0	723.8	698.6	661.9	618.7	585.1	583.3
42.5°	3096.7	2061.5	923.0	711.8	701.0	667.3	628.9	590.5	564.1	563.5
45°	3330.7	1954.0	771.8	667.9	676.9	639.1	604.9	573.7	553.3	549.1
47.5°	3551.0	1802.2	665.5	621.7	652.9	623.5	594.7	565.3	545.5	542.5
50°	3806.6	1638.4	591.1	576.7	631.9	618.1	603.1	572.5	539.5	535.9
52.5°	4116.3	1496.7	532.9	537.1	615.7	625.3	624.7	592.9	535.3	530.5
55°	4462.0	1339.5	489.1	504.7	609.1	638.5	630.1	612.1	538.9	531.7
57.5°	4802.3	1155.9	458.5	480.1	599.5	637.3	604.3	578.5	547.3	537.1
60°	5057.3	909.2	435.1	458.5	578.5	617.5	576.1	541.9	545.5	537.7
62.5°	5074.1	702.8	406.9	439.9	546.7	597.7	557.5	525.7	553.3	546.1
65°	4775.9	531.1	379.9	417.7	512.5	585.1	539.5	516.7	569.5	561.7
67.5°	4020.9	427.3	357.1	394.9	478.3	558.7	523.3	508.3	583.9	570.1
70°	2902.8	364.3	334.9	367.3	447.7	528.7	508.9	493.3	544.9	523.3
72.5°	1787.2	315.7	309.7	330.7	424.3	497.5	487.3	465.1	490.9	473.5
75°	892.4	273.7	281.5	294.7	391.3	462.1	451.3	429.1	432.7	429.1
77.5°	427.3	234.1	248.5	258.7	348.7	421.9	410.5	387.7	383.5	384.1
80°	270.7	195.6	209.4	216.6	311.5	375.1	363.7	340.9	388.9	360.7
82.5°	169.2	159.0	162.6	175.8	271.3	326.5	311.5	291.1	350.5	277.3
85°	93.6	111.0	115.8	127.2	208.8	273.1	258.1	232.3	208.2	204.6
87.5°	55.8	66.0	67.8	76.2	140.4	197.4	174.6	165.6	137.4	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)