

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: P200224

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13050 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

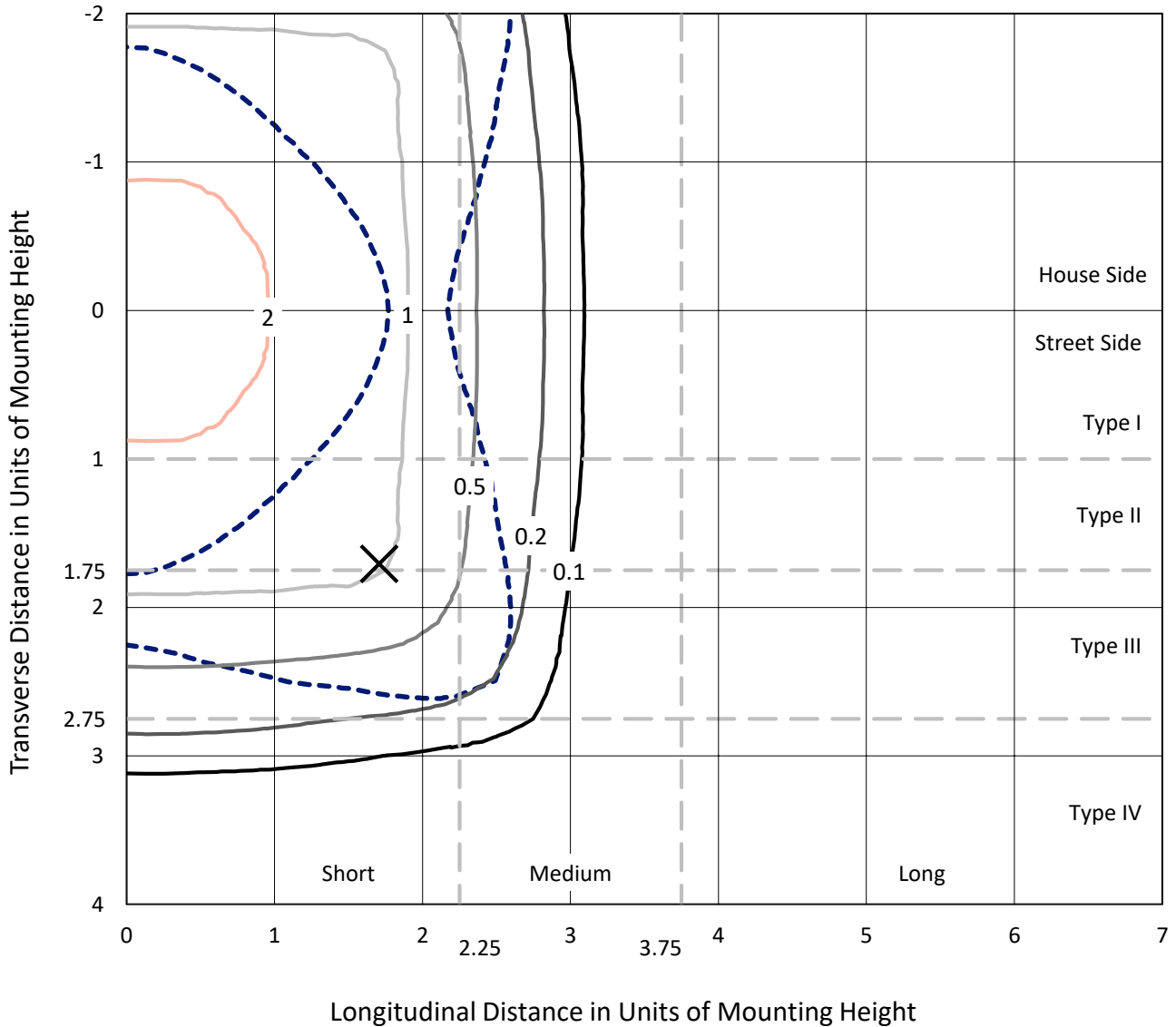
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200224
 CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7050

Iso-Footcandle Lines of Horizontal Illumination

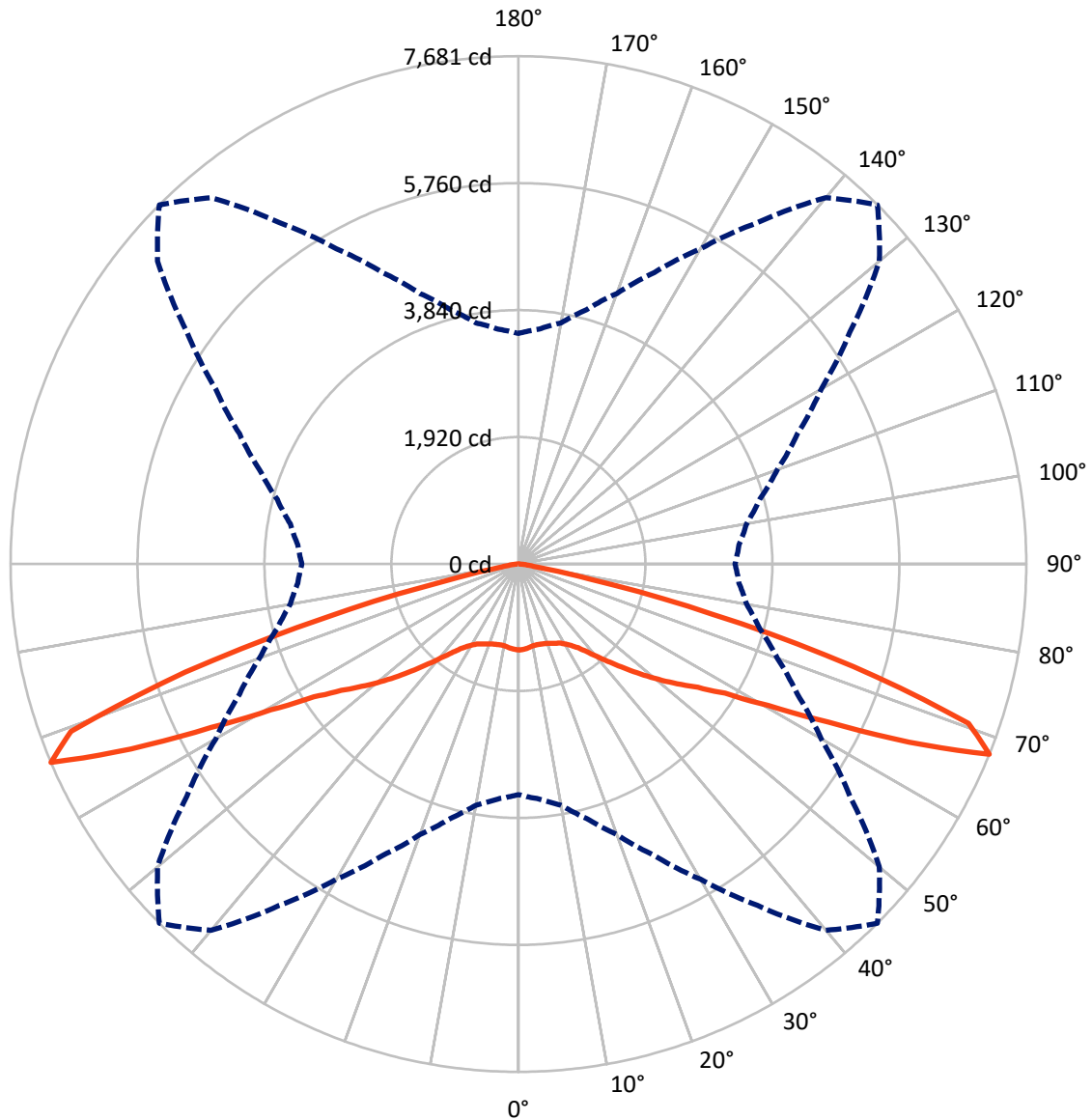
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P200224
CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6525.0	0.0	6525.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6525.0	0.0	6525.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13050.0	0.0	13050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	0.9
10°-20°	353.2	2.7
20°-30°	600.5	4.6
30°-40°	981.5	7.5
40°-50°	1752.2	13.4
50°-60°	2954.3	22.6
60°-70°	4584.7	35.1
70°-80°	1610.9	12.3
80°-90°	91.0	0.7
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°	13050.0	100.0
0°-180°	13050.0	100.0



REPORT NUMBER: P200224

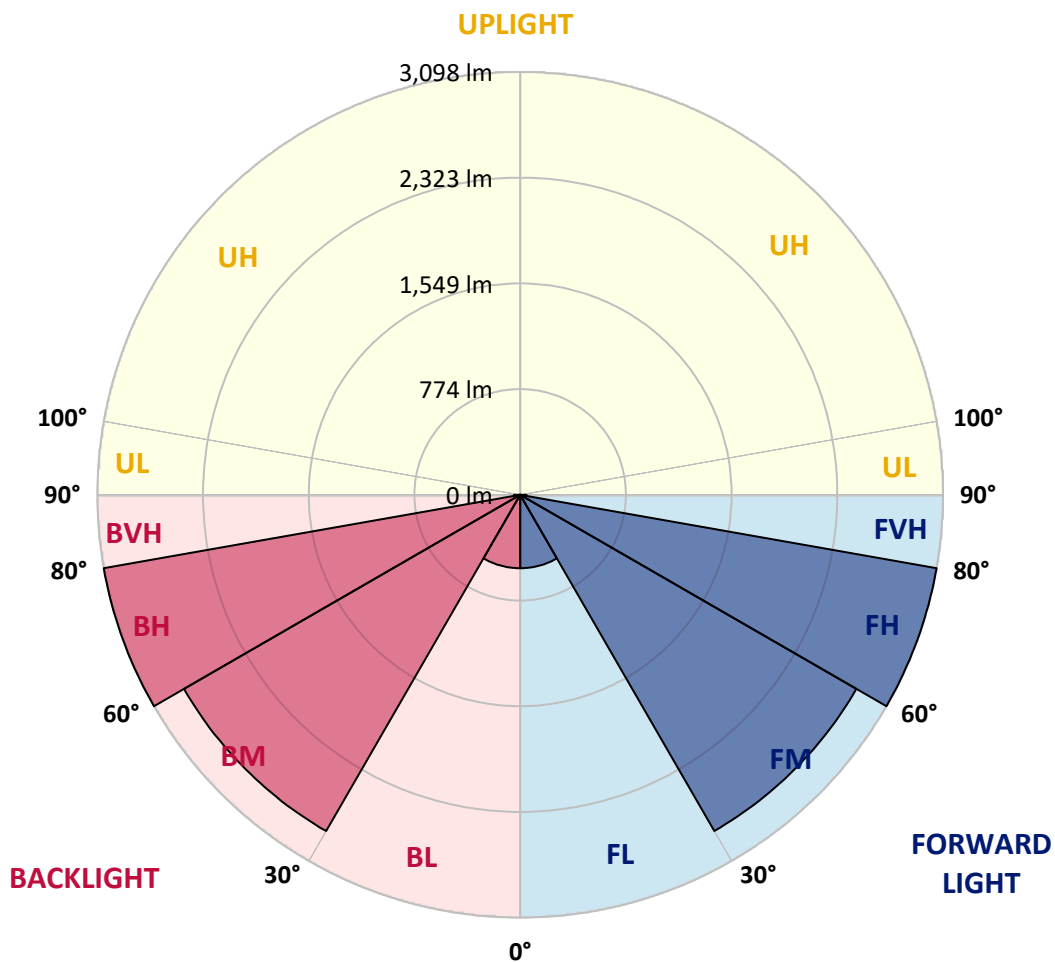
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.7	4.1			
FM	(30°-60°)	2844.0	21.8			
FH	(60°-80°)	3097.8	23.7			G2/5000
FVH	(80°-90°)	45.5	0.3			G1/100
BL	(0°-30°)	537.7	4.1	B2/1000		
BM	(30°-60°)	2844.0	21.8	B3/5000		
BH	(60°-80°)	3097.8	23.7	B4/5000		G2/5000
BVH	(80°-90°)	45.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P200224

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5
2.5°	1295.7	1296.9	1296.9	1296.9	1296.3	1296.3	1295.1	1296.3	1295.7	1293.9	1294.5
5°	1284.9	1286.1	1286.1	1285.5	1287.3	1286.7	1284.9	1286.1	1285.5	1284.3	1284.9
7.5°	1269.3	1271.1	1271.1	1270.5	1272.3	1271.7	1270.5	1271.1	1271.1	1269.3	1269.3
10°	1251.9	1253.1	1253.1	1252.5	1255.5	1255.5	1254.9	1256.7	1257.3	1255.5	1254.3
12.5°	1235.7	1237.5	1237.5	1239.9	1242.9	1244.1	1247.1	1249.5	1251.9	1251.3	1248.9
15°	1226.1	1227.3	1229.7	1232.7	1237.5	1241.7	1246.5	1251.9	1256.7	1257.9	1254.3
17.5°	1220.1	1221.9	1225.5	1229.7	1236.3	1243.5	1250.7	1257.9	1264.5	1266.9	1262.7
20°	1218.3	1219.5	1223.1	1230.3	1239.3	1250.1	1260.3	1268.7	1277.7	1280.7	1277.7
22.5°	1221.9	1224.3	1228.5	1236.9	1248.9	1262.7	1274.7	1286.1	1297.5	1302.9	1298.7
25°	1238.1	1240.5	1245.9	1256.7	1269.9	1284.3	1298.1	1311.3	1321.5	1326.9	1323.9
27.5°	1268.1	1271.1	1277.7	1288.5	1302.9	1318.5	1333.5	1344.3	1352.7	1354.5	1350.9
30°	1313.1	1319.7	1327.5	1339.5	1356.3	1369.5	1384.5	1394.1	1404.3	1404.3	1401.3
32.5°	1383.3	1389.9	1398.3	1409.7	1422.9	1437.3	1450.5	1458.9	1469.7	1470.3	1463.1
35°	1488.3	1491.3	1498.5	1505.7	1517.7	1530.3	1541.7	1547.1	1556.1	1556.7	1550.1
37.5°	1627.0	1627.6	1632.4	1634.8	1645.6	1659.4	1670.2	1673.8	1682.2	1681.0	1674.4
40°	1788.4	1791.4	1793.2	1796.8	1808.2	1821.4	1832.8	1834.6	1843.6	1841.8	1833.4
42.5°	1975.0	1976.2	1986.4	1991.8	2002.6	2009.2	2023.6	2025.4	2036.3	2031.4	2021.8
45°	2184.5	2195.3	2204.9	2215.7	2227.1	2234.9	2246.3	2243.9	2251.1	2243.9	2238.5
47.5°	2404.7	2412.5	2434.1	2450.9	2469.5	2476.1	2492.4	2485.1	2492.4	2482.1	2480.3
50°	2647.2	2661.0	2679.6	2698.8	2718.6	2729.4	2750.4	2741.4	2751.0	2741.4	2736.0
52.5°	2886.0	2889.6	2930.4	2958.7	2986.3	2998.9	3011.5	3007.3	3007.9	3007.3	3001.9
55°	3112.9	3121.3	3162.1	3200.5	3248.5	3283.9	3305.5	3303.1	3297.7	3292.3	3283.3
57.5°	3368.5	3376.9	3423.8	3471.2	3525.8	3576.2	3620.0	3665.0	3682.4	3687.2	3667.4
60°	3714.2	3713.6	3776.0	3833.6	3911.7	3986.7	4082.7	4180.5	4292.7	4345.0	4275.9
62.5°	4065.9	4080.3	4170.3	4272.3	4433.2	4589.8	4766.9	4940.9	5118.5	5263.2	5109.5
65°	4023.9	4079.1	4212.9	4444.0	4741.0	5093.9	5475.6	5879.5	6244.4	6495.2	6213.8
67.5°	3487.4	3566.0	3702.2	3983.1	4354.6	4863.5	5504.4	6303.2	7231.6	7680.5	7124.2
70°	2527.8	2616.6	2759.4	3033.7	3401.6	3885.3	4581.4	5540.4	6769.5	7222.0	6609.3
72.5°	1257.9	1305.9	1394.1	1568.7	1847.2	2239.7	2871.0	3792.8	4880.3	5295.6	4735.6
75°	427.3	449.5	464.5	521.5	609.7	764.0	1077.8	1658.2	2529.6	3032.5	2493.6
77.5°	246.7	247.3	257.5	267.7	282.7	299.5	341.5	448.3	775.4	1101.2	802.4
80°	159.6	159.0	167.4	175.2	185.4	193.8	196.2	207.6	239.5	283.9	253.9
82.5°	82.8	93.0	111.6	121.8	141.0	144.6	139.8	135.6	143.4	148.8	152.4
85°	45.6	39.6	59.4	76.8	85.2	86.4	86.4	81.6	84.6	82.8	90.0
87.5°	21.0	19.2	23.4	37.8	40.2	34.2	36.0	31.8	22.8	22.2	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200224

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5
2.5°	1294.5	1295.1	1295.1	1296.9	1297.5	1298.7	1299.9	1300.5
5°	1284.3	1286.1	1284.9	1286.7	1286.7	1287.9	1287.9	1288.5
7.5°	1269.3	1271.1	1271.1	1271.1	1270.5	1272.3	1272.3	1272.3
10°	1253.7	1254.9	1254.3	1253.1	1251.9	1253.7	1253.1	1252.5
12.5°	1248.9	1245.9	1243.5	1242.3	1239.9	1240.5	1238.7	1238.7
15°	1251.9	1246.5	1242.3	1240.5	1238.1	1236.9	1235.7	1236.3
17.5°	1259.7	1253.1	1247.7	1244.7	1241.7	1239.9	1237.5	1238.1
20°	1273.5	1265.7	1257.9	1251.9	1246.5	1243.5	1241.7	1241.1
22.5°	1293.9	1282.5	1271.1	1262.1	1254.9	1250.7	1248.9	1247.7
25°	1317.3	1304.7	1291.5	1281.3	1274.1	1268.7	1265.1	1265.1
27.5°	1346.7	1336.5	1324.5	1312.5	1305.9	1300.5	1298.1	1296.9
30°	1395.9	1386.3	1376.7	1365.3	1356.9	1351.5	1347.3	1343.7
32.5°	1458.9	1451.1	1443.3	1434.9	1427.1	1419.9	1413.3	1410.3
35°	1547.7	1541.7	1536.3	1526.7	1523.7	1519.5	1515.9	1512.9
37.5°	1670.2	1667.8	1667.8	1657.6	1655.2	1653.4	1649.8	1650.4
40°	1831.0	1833.4	1830.4	1826.8	1825.0	1820.2	1820.2	1824.4
42.5°	2021.2	2023.0	2029.6	2023.6	2030.2	2024.2	2020.6	2023.6
45°	2242.1	2248.7	2261.9	2255.9	2260.1	2249.9	2237.3	2237.9
47.5°	2490.0	2496.0	2501.4	2497.2	2497.8	2480.9	2464.1	2459.9
50°	2747.4	2749.8	2752.8	2746.8	2748.0	2729.4	2710.2	2710.8
52.5°	3001.9	3013.3	3025.3	3009.1	3005.5	2984.5	2957.5	2946.7
55°	3292.9	3309.1	3295.3	3267.1	3238.9	3210.7	3175.3	3169.3
57.5°	3651.8	3624.2	3581.0	3527.6	3488.6	3449.0	3413.0	3398.0
60°	4151.1	4047.3	3969.3	3890.1	3840.2	3791.6	3744.2	3737.0
62.5°	4856.9	4677.4	4522.0	4358.2	4224.3	4119.9	4036.5	4013.1
65°	5741.5	5317.2	4949.3	4606.0	4307.8	4082.7	3941.1	3878.7
67.5°	6122.0	5284.2	4653.4	4166.1	3776.0	3503.6	3350.5	3274.3
70°	5379.6	4382.2	3696.2	3208.3	2853.0	2562.6	2423.9	2342.3
72.5°	3701.0	2787.6	2204.3	1799.2	1515.3	1272.3	1176.3	1169.1
75°	1661.8	1100.6	758.6	584.5	492.1	427.9	408.1	393.1
77.5°	465.1	343.9	306.7	286.9	267.7	245.5	237.1	238.9
80°	226.3	213.6	205.2	192.6	175.2	156.6	148.2	151.8
82.5°	150.0	148.2	153.6	144.6	119.4	101.4	85.2	78.0
85°	91.2	92.4	94.2	94.8	80.4	56.4	38.4	43.2
87.5°	36.0	41.4	45.0	46.8	43.8	27.0	21.6	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)