

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: P200082

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14683.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

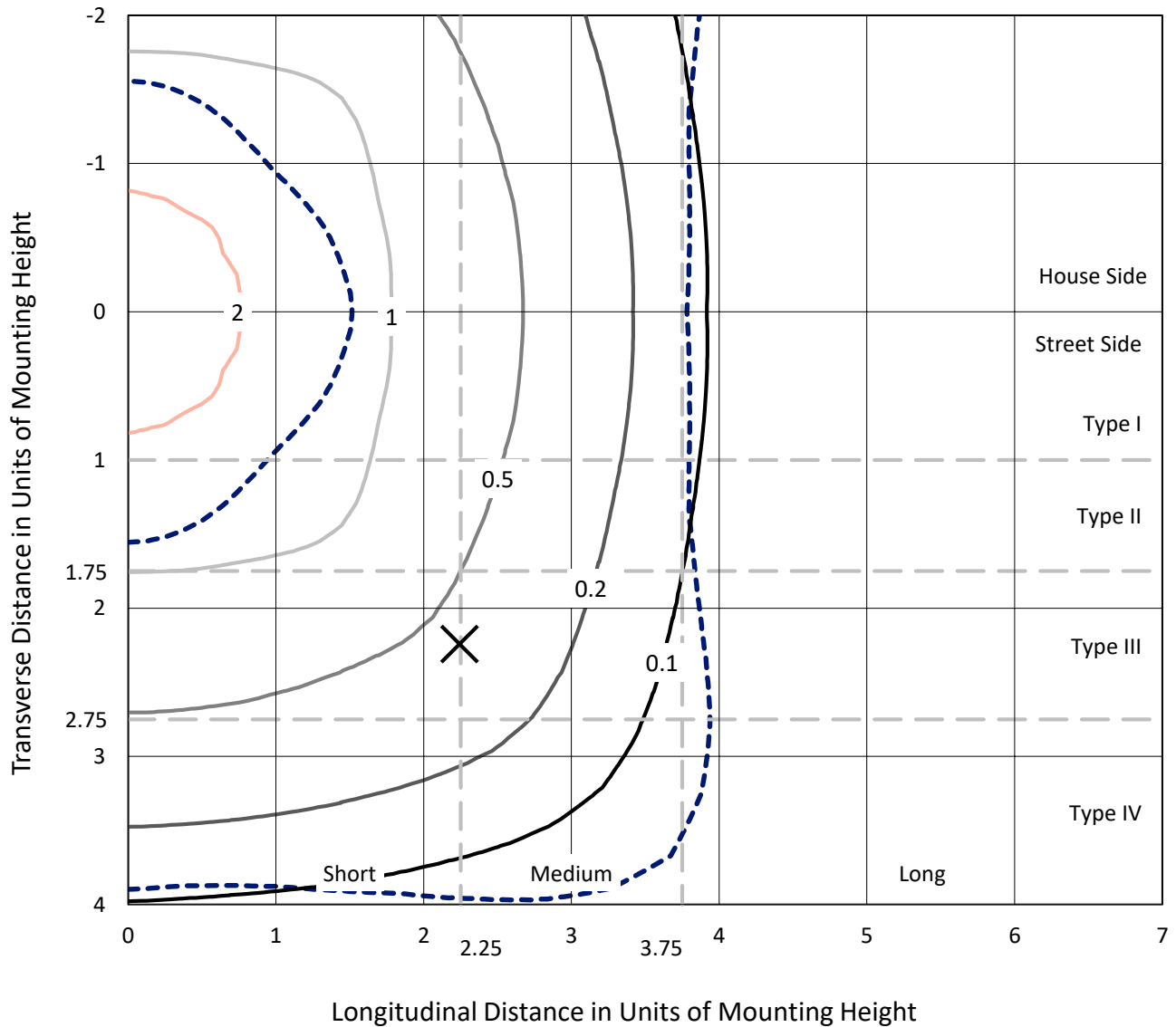
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

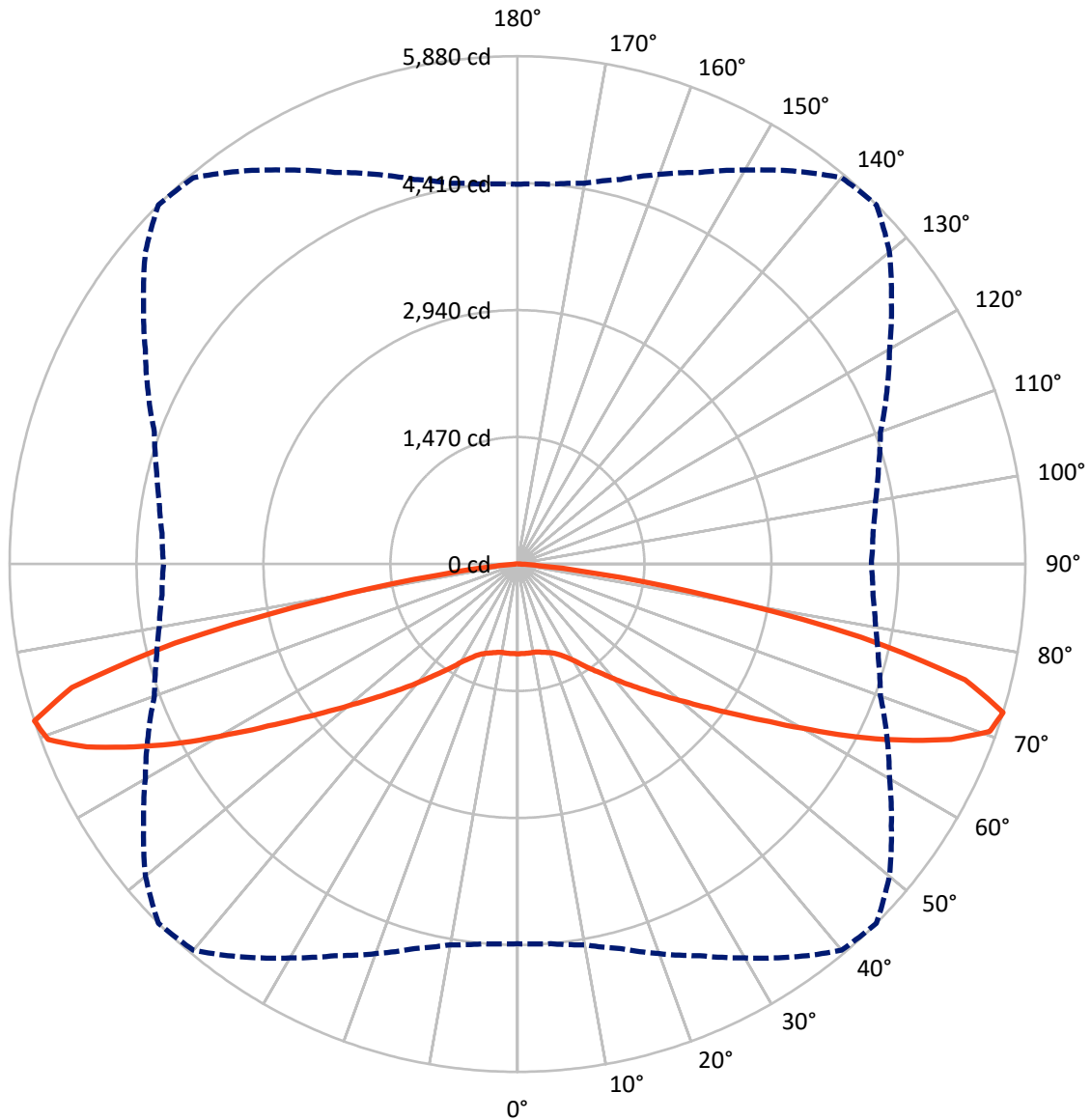
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7341.7	0.0	7341.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7341.7	0.0	7341.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14683.4	0.0	14683.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	0.7
10°-20°	301.6	2.1
20°-30°	551.1	3.8
30°-40°	950.1	6.5
40°-50°	1624.2	11.1
50°-60°	2632.7	17.9
60°-70°	4367.5	29.7
70°-80°	3846.8	26.2
80°-90°	310.2	2.1
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°	14683.4	100.0
0°-180°	14683.4	100.0



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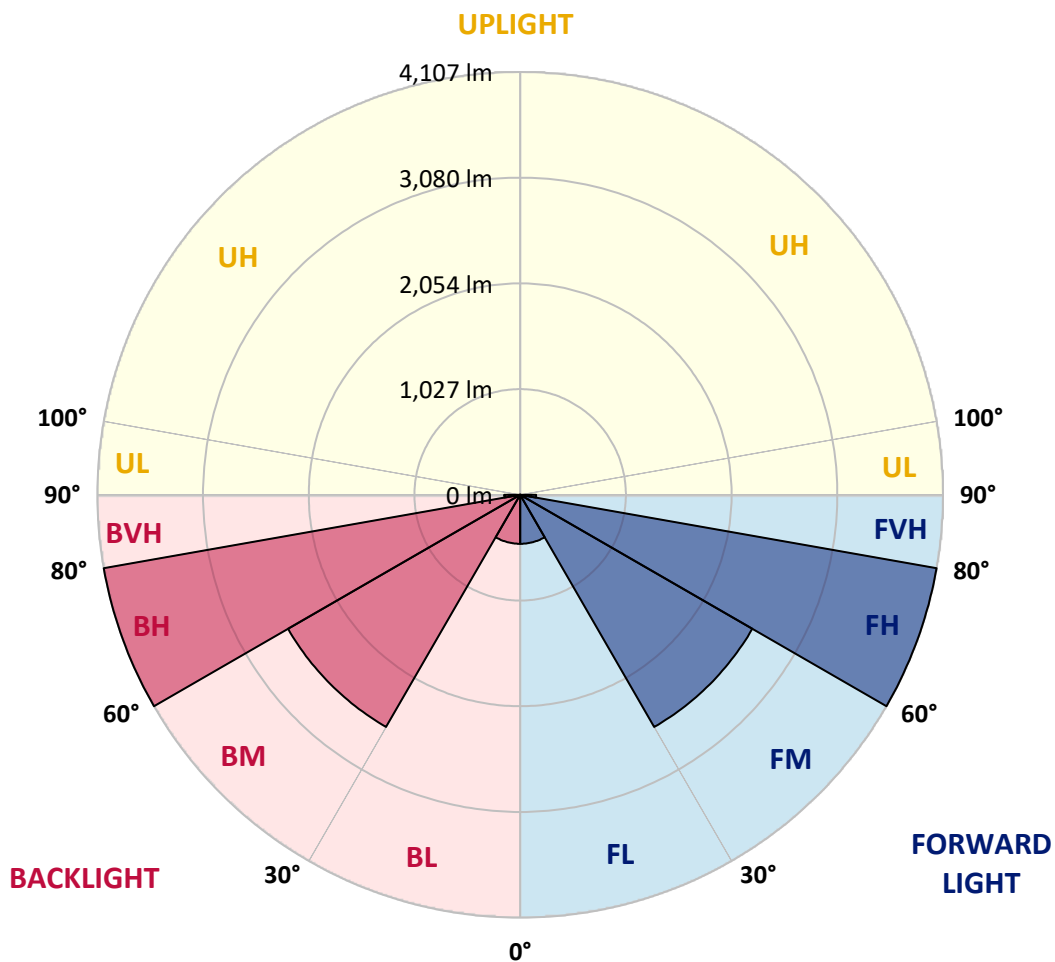
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.0	3.2			
FM	(30°-60°)	2603.5	17.7			
FH	(60°-80°)	4107.2	28.0			G2/5000
FVH	(80°-90°)	155.1	1.1			G2/225
BL	(0°-30°)	476.0	3.2	B1/500		
BM	(30°-60°)	2603.5	17.7	B3/5000		
BH	(60°-80°)	4107.2	28.0	B4/5000		G2/5000
BVH	(80°-90°)	155.1	1.1			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1039.8	1040.4	1041.2	1040.4	1040.4	1039.8	1039.1	1039.8	1039.1	1037.8	1038.5
5°	1043.2	1044.5	1044.5	1043.2	1043.8	1043.2	1041.9	1042.5	1041.2	1039.1	1039.1
7.5°	1047.2	1047.9	1047.9	1046.6	1047.2	1045.9	1044.5	1043.8	1042.5	1039.8	1037.8
10°	1053.3	1053.9	1053.3	1051.9	1051.9	1050.0	1046.6	1045.3	1042.5	1038.5	1036.5
12.5°	1060.0	1060.7	1060.0	1058.7	1058.0	1054.7	1051.9	1050.0	1047.9	1044.5	1041.2
15°	1069.5	1070.8	1069.5	1066.7	1064.7	1062.0	1060.7	1061.4	1062.0	1059.4	1056.0
17.5°	1087.0	1087.6	1085.7	1079.5	1076.9	1074.2	1074.2	1075.5	1077.6	1076.1	1072.8
20°	1119.3	1117.3	1112.6	1105.1	1101.8	1097.0	1096.4	1097.0	1097.0	1096.4	1093.7
22.5°	1159.7	1158.4	1152.3	1142.8	1138.1	1135.5	1131.4	1128.0	1127.4	1125.3	1122.7
25°	1208.2	1207.5	1200.1	1192.0	1188.7	1185.3	1181.9	1177.2	1173.1	1168.4	1165.8
27.5°	1270.1	1267.4	1256.7	1252.6	1247.9	1245.9	1241.1	1235.8	1232.5	1226.3	1223.0
30°	1338.1	1338.1	1329.4	1328.1	1328.1	1323.3	1318.0	1308.6	1302.4	1296.4	1294.3
32.5°	1406.1	1406.9	1398.1	1400.8	1402.8	1406.1	1407.5	1404.2	1400.1	1399.4	1395.4
35°	1504.5	1501.8	1493.1	1495.0	1494.4	1493.7	1493.7	1501.2	1502.5	1503.8	1495.8
37.5°	1626.4	1626.4	1617.6	1617.6	1613.6	1609.5	1604.2	1608.9	1616.3	1618.3	1612.9
40°	1765.8	1770.5	1759.8	1759.1	1760.4	1747.6	1741.6	1748.9	1753.6	1761.7	1755.7
42.5°	1930.1	1926.7	1916.0	1914.7	1907.2	1903.2	1897.8	1903.8	1911.3	1916.7	1918.6
45°	2087.7	2085.0	2072.9	2072.9	2065.4	2062.2	2064.8	2075.0	2078.3	2085.7	2093.1
47.5°	2243.3	2240.0	2231.9	2235.2	2235.9	2241.9	2250.7	2260.1	2269.5	2279.6	2283.0
50°	2402.2	2402.9	2394.1	2402.2	2412.3	2429.2	2452.7	2468.2	2487.7	2500.5	2504.6
52.5°	2547.0	2549.7	2559.1	2577.9	2598.2	2631.2	2671.6	2709.3	2741.6	2763.2	2761.9
55°	2720.7	2724.8	2747.7	2780.1	2813.0	2862.8	2922.8	2989.5	3043.4	3074.3	3054.8
57.5°	2943.0	2951.7	2977.3	3021.1	3070.3	3134.9	3217.1	3317.4	3400.9	3442.7	3411.0
60°	3248.1	3253.5	3284.5	3333.0	3392.2	3472.3	3582.1	3716.8	3834.6	3889.9	3853.6
62.5°	3650.1	3660.2	3685.2	3734.3	3794.9	3885.9	4019.9	4188.3	4335.1	4411.8	4329.6
65°	4130.3	4162.6	4183.5	4233.4	4289.9	4386.2	4526.3	4706.8	4864.3	4914.9	4819.9
67.5°	4605.7	4634.1	4670.4	4727.7	4784.9	4893.3	5023.3	5198.4	5371.5	5417.2	5269.8
70°	4813.9	4830.1	4886.6	4964.7	5074.4	5202.4	5352.6	5549.3	5763.4	5801.2	5614.0
72.5°	4396.9	4413.1	4476.4	4609.1	4800.4	5003.8	5265.7	5554.6	5837.5	5879.9	5622.0
75°	3325.5	3299.2	3392.8	3568.7	3826.6	4110.1	4476.4	4890.6	5299.4	5352.6	5044.9
77.5°	1718.7	1715.3	1786.0	2004.2	2312.0	2634.5	3038.0	3506.0	3906.0	4067.7	3817.1
80°	484.3	489.6	523.2	631.7	811.5	1044.5	1359.7	1798.1	2125.4	2292.4	2152.4
82.5°	190.0	204.7	217.5	237.7	261.3	295.6	394.7	587.3	788.0	941.5	771.1
85°	68.0	72.7	103.0	121.9	123.9	130.6	148.8	173.8	209.4	249.8	205.4
87.5°	25.6	28.3	33.0	54.5	53.9	49.2	59.9	62.6	47.2	43.1	53.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1037.2	1037.8	1037.8	1038.5	1039.1	1039.1	1040.4	1040.4
5°	1037.8	1037.8	1036.5	1037.2	1036.5	1036.5	1037.2	1037.2
7.5°	1036.5	1035.7	1034.4	1033.8	1032.4	1032.4	1032.4	1032.4
10°	1034.4	1033.8	1032.4	1031.7	1031.0	1031.0	1031.0	1031.0
12.5°	1039.8	1037.8	1036.5	1035.7	1035.7	1035.7	1035.7	1035.7
15°	1053.9	1049.2	1045.9	1045.9	1046.6	1047.9	1047.9	1049.2
17.5°	1071.4	1066.1	1062.7	1060.0	1061.4	1063.4	1064.7	1066.1
20°	1092.3	1089.6	1084.9	1082.3	1082.3	1084.9	1086.3	1087.0
22.5°	1121.3	1119.3	1117.3	1113.9	1113.9	1115.2	1118.0	1118.0
25°	1164.4	1163.1	1161.7	1159.0	1158.4	1158.4	1159.7	1161.0
27.5°	1218.2	1218.9	1217.6	1216.9	1215.0	1214.2	1216.3	1215.6
30°	1290.4	1293.7	1297.1	1294.3	1291.0	1289.0	1287.0	1284.3
32.5°	1388.0	1384.0	1381.3	1376.6	1370.4	1365.1	1361.0	1356.3
35°	1480.2	1473.6	1470.8	1474.9	1474.2	1470.8	1466.1	1462.1
37.5°	1593.3	1592.0	1593.3	1600.8	1599.5	1602.9	1593.3	1592.7
40°	1736.2	1737.5	1746.9	1755.7	1760.4	1765.1	1759.8	1754.4
42.5°	1901.9	1901.2	1904.5	1916.7	1924.8	1930.1	1918.6	1917.3
45°	2076.9	2072.2	2075.0	2085.0	2093.1	2099.2	2086.4	2086.4
47.5°	2269.5	2261.4	2252.7	2264.2	2268.9	2272.9	2262.8	2259.5
50°	2484.3	2467.6	2448.6	2453.4	2453.4	2452.0	2439.2	2438.6
52.5°	2730.9	2699.9	2665.5	2652.7	2645.4	2637.3	2615.1	2604.2
55°	3014.4	2967.9	2914.1	2881.0	2863.5	2841.3	2804.3	2794.2
57.5°	3345.8	3273.0	3180.0	3139.6	3100.6	3064.2	3023.1	3011.7
60°	3738.4	3631.3	3508.0	3433.2	3390.9	3355.8	3313.4	3311.4
62.5°	4176.1	4007.1	3867.7	3800.3	3769.4	3738.4	3698.0	3703.3
65°	4621.3	4444.8	4314.2	4259.6	4230.6	4205.0	4164.6	4170.7
67.5°	5060.3	4898.1	4754.6	4698.7	4666.4	4634.1	4597.7	4603.8
70°	5375.5	5174.2	5012.6	4888.6	4811.1	4723.6	4667.0	4652.9
72.5°	5285.3	4974.8	4718.3	4472.4	4328.3	4211.1	4131.7	4097.3
75°	4574.1	4149.8	3819.8	3518.1	3348.4	3210.3	3110.0	3047.4
77.5°	3396.9	2920.1	2530.2	2182.7	1907.9	1723.4	1593.3	1509.3
80°	1859.4	1414.2	1033.8	726.7	534.1	443.8	392.0	367.0
82.5°	579.2	373.8	275.5	237.7	220.9	211.4	196.0	171.0
85°	184.5	161.6	150.2	143.4	136.7	119.2	82.1	74.8
87.5°	71.4	73.4	72.7	68.7	70.1	50.5	40.4	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)