

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: P197545

Luminaire Tested: **TT-C4-LED-E1-5CQ-PM-MS/DIM-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C4-LED-E1-5CQ-PM-MS/DIM-8030  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (160) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5361.9 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 58  
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

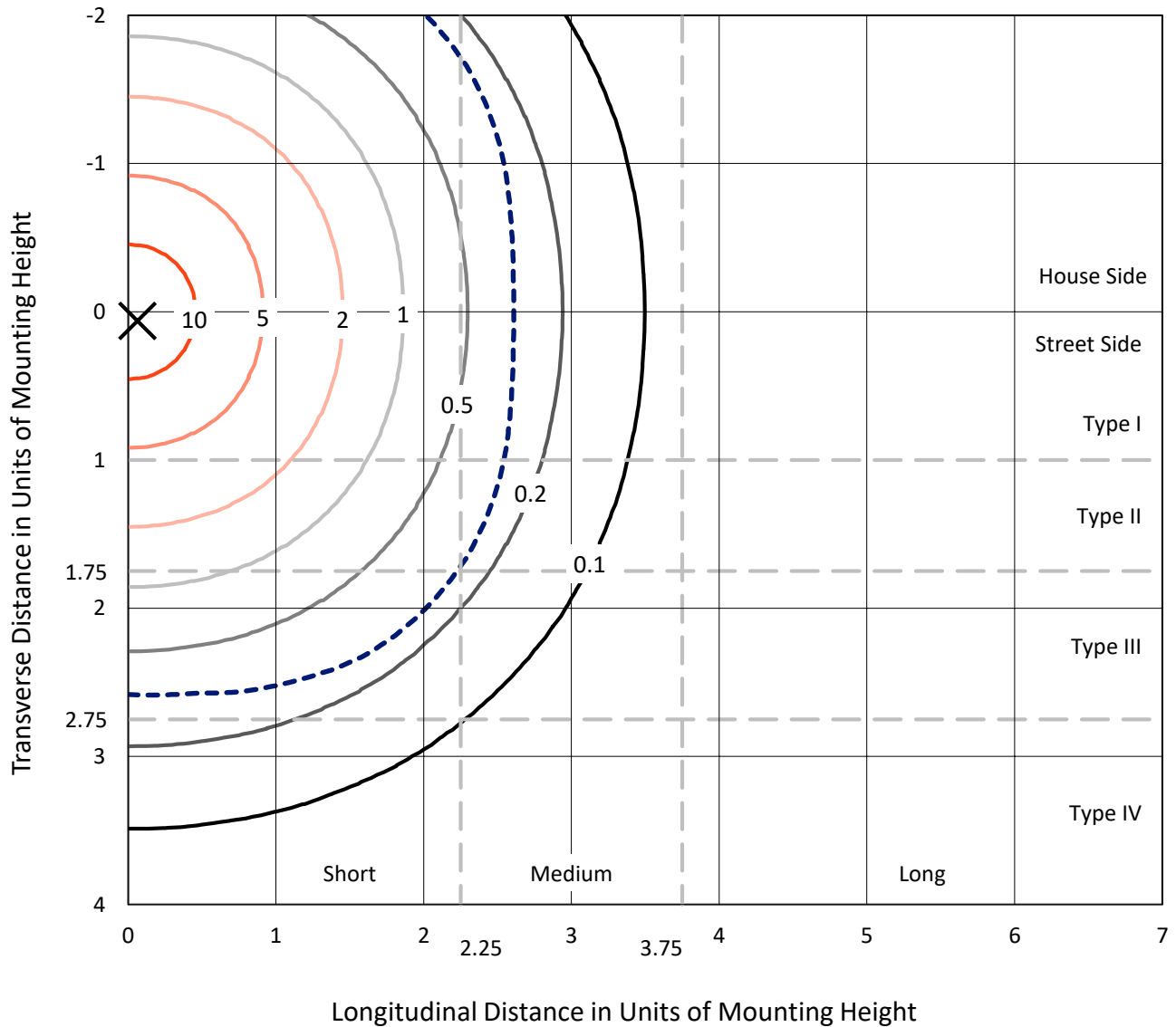


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### Iso-Footcandle Lines of Horizontal Illumination

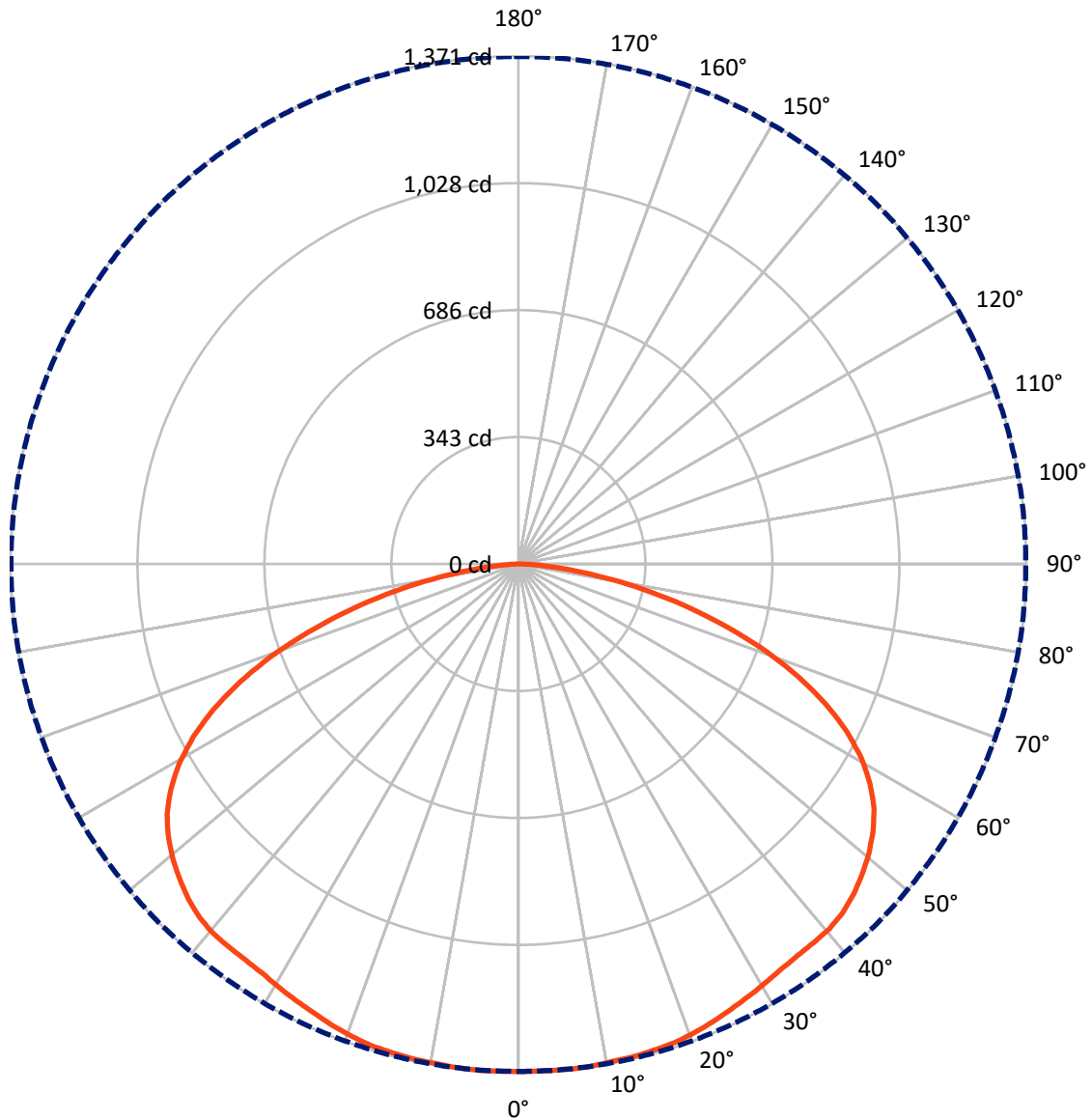
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 5-Deg Vertical

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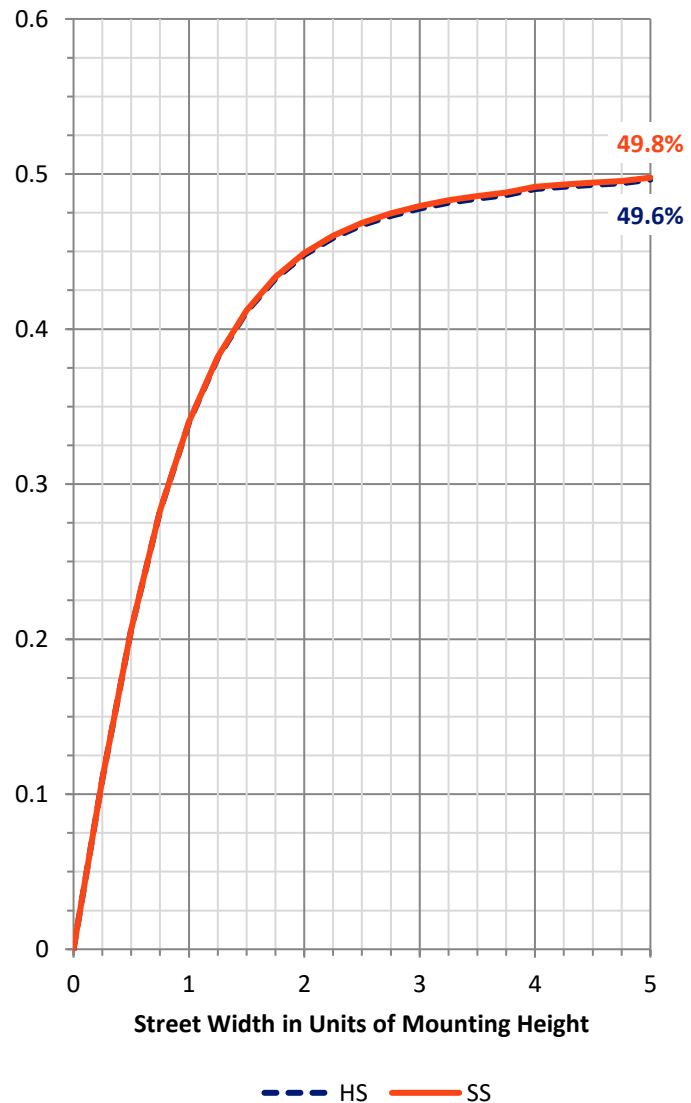
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2681.0	0.0	2681.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2681.0	0.0	2681.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5361.9	0.0	5361.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	2.4
10°-20°	385.4	7.2
20°-30°	615.0	11.5
30°-40°	810.1	15.1
40°-50°	963.6	18.0
50°-60°	1008.5	18.8
60°-70°	857.6	16.0
70°-80°	487.4	9.1
80°-90°	103.6	1.9
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°	5361.9	100.0
0°-180°	5361.9	100.0



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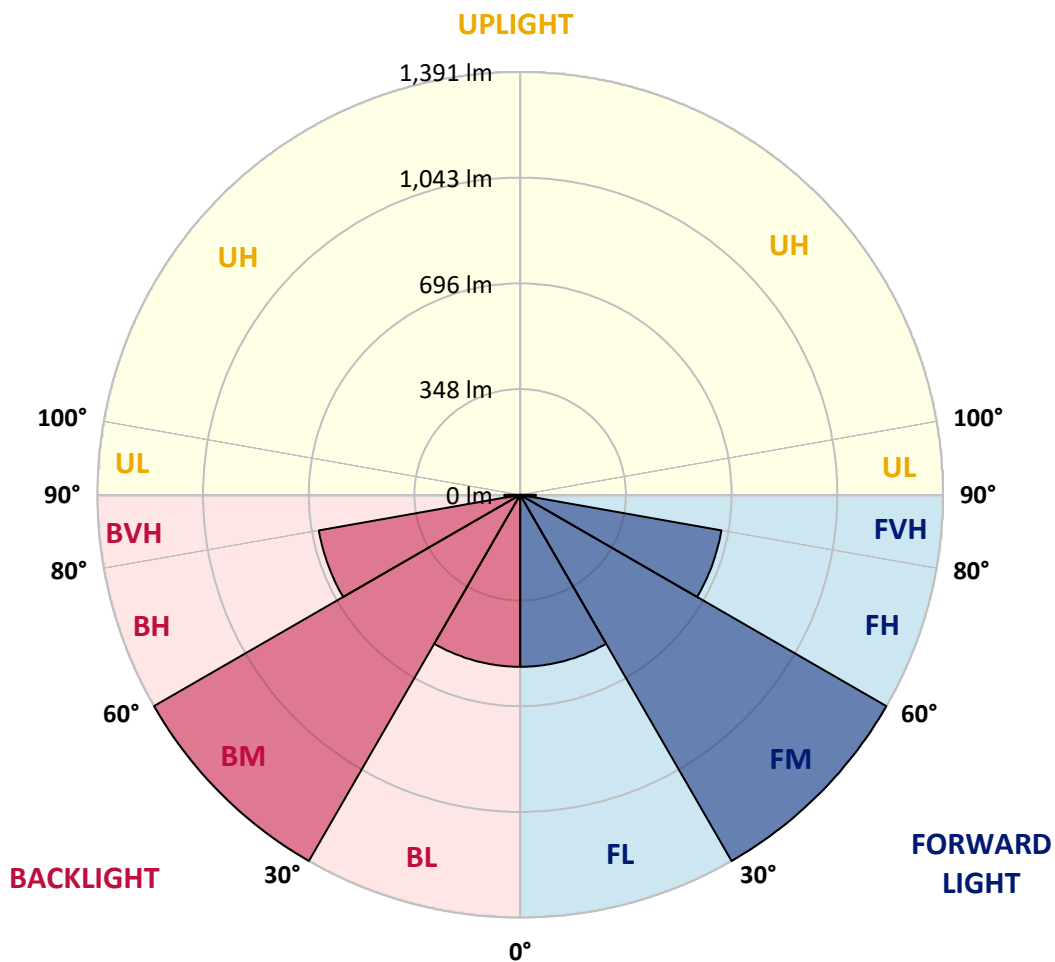
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.5	10.5			
FM (30°-60°)	1391.1	25.9			
FH (60°-80°)	672.5	12.5			G1/1800
FVH (80°-90°)	51.8	1.0			G1/100
BL (0°-30°)	565.5	10.5	B2/1000		
BM (30°-60°)	1391.1	25.9	B2/2500		
BH (60°-80°)	672.5	12.5	B2/1000		G1/1800
BVH (80°-90°)	51.8	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
2.5°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
5°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1371.0	1369.9
7.5°	1368.8	1368.8	1368.8	1368.8	1369.9	1368.8	1368.8	1369.9	1369.9	1369.9	1369.9
10°	1366.7	1365.7	1365.7	1366.7	1366.7	1366.7	1366.7	1366.7	1367.8	1366.7	1366.7
12.5°	1363.6	1362.6	1363.6	1363.6	1363.6	1364.7	1364.7	1364.7	1365.7	1365.7	1364.7
15°	1360.4	1360.4	1360.4	1360.4	1360.4	1361.5	1361.5	1362.6	1362.6	1362.6	1362.6
17.5°	1356.2	1356.2	1356.2	1357.2	1357.2	1358.3	1358.3	1358.3	1359.4	1359.4	1359.4
20°	1348.7	1347.8	1348.7	1348.7	1349.8	1350.9	1350.9	1351.9	1351.9	1351.9	1351.9
22.5°	1338.2	1338.2	1339.3	1339.3	1340.3	1341.4	1341.4	1342.5	1342.5	1342.5	1342.5
25°	1327.7	1328.7	1328.7	1329.8	1329.8	1330.9	1331.9	1331.9	1331.9	1331.9	1331.9
27.5°	1317.0	1318.1	1318.1	1318.1	1319.2	1320.2	1321.3	1322.3	1323.4	1322.3	1322.3
30°	1305.4	1305.4	1306.5	1307.6	1308.6	1309.7	1311.8	1312.9	1313.9	1312.9	1312.9
32.5°	1292.8	1293.8	1294.9	1296.0	1298.1	1300.1	1302.2	1303.3	1304.4	1303.3	1303.3
35°	1283.3	1283.3	1285.3	1287.5	1289.6	1292.8	1294.9	1297.0	1299.2	1298.1	1297.0
37.5°	1273.7	1273.7	1275.9	1279.0	1283.3	1287.5	1291.7	1294.9	1296.0	1296.0	1294.9
40°	1262.1	1263.2	1265.3	1270.5	1276.9	1282.2	1287.5	1291.7	1293.8	1293.8	1291.7
42.5°	1249.5	1250.5	1253.6	1258.9	1266.4	1272.7	1279.0	1282.2	1285.3	1285.3	1283.3
45°	1231.5	1232.5	1236.7	1242.0	1249.5	1255.7	1263.2	1266.4	1270.5	1269.5	1268.4
47.5°	1208.2	1209.3	1213.5	1218.7	1226.2	1233.6	1241.0	1246.3	1249.5	1249.5	1248.4
50°	1179.7	1180.7	1185.0	1190.2	1199.8	1208.2	1215.6	1220.9	1226.2	1226.2	1225.1
52.5°	1143.7	1145.8	1149.0	1156.4	1167.0	1176.5	1186.0	1194.5	1197.7	1198.7	1197.7
55°	1099.3	1101.5	1105.6	1114.1	1125.7	1137.3	1148.0	1157.4	1161.7	1164.9	1162.8
57.5°	1047.5	1049.7	1054.9	1064.5	1077.1	1088.7	1102.5	1113.1	1116.3	1119.5	1118.4
60°	986.3	989.3	994.7	1005.3	1018.0	1030.6	1043.3	1055.9	1059.1	1063.4	1061.3
62.5°	914.3	917.5	922.8	934.4	948.2	959.8	974.6	986.3	989.3	993.6	992.5
65°	831.9	835.1	840.4	853.1	865.7	878.4	892.1	904.9	908.0	912.2	911.1
67.5°	737.8	741.0	746.2	761.0	773.8	786.5	798.0	810.7	812.8	817.1	816.0
70°	638.5	642.7	646.9	660.7	672.3	682.8	695.5	706.1	710.4	712.4	710.4
72.5°	539.1	542.3	546.5	556.0	564.4	574.0	586.6	594.1	597.2	598.2	598.2
75°	436.5	439.7	439.7	450.3	456.6	462.0	472.5	477.8	479.9	482.1	482.1
77.5°	339.3	337.2	339.3	343.5	347.8	351.9	358.3	361.5	363.6	367.8	365.8
80°	237.8	238.9	239.9	243.1	245.2	246.3	250.6	251.6	252.7	256.8	254.7
82.5°	153.3	151.2	153.3	152.2	154.4	151.2	153.3	156.4	154.4	156.4	157.5
85°	80.3	77.1	77.1	78.2	79.3	77.1	78.2	77.1	77.1	79.3	78.2
87.5°	25.3	24.4	25.3	24.4	25.3	24.4	25.3	26.4	25.3	25.3	26.4
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°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
2.5°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
5°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
7.5°	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1367.8	1368.8
10°	1366.7	1366.7	1366.7	1366.7	1365.7	1365.7	1365.7	1365.7
12.5°	1364.7	1364.7	1363.6	1363.6	1363.6	1363.6	1362.6	1362.6
15°	1362.6	1361.5	1361.5	1360.4	1360.4	1360.4	1359.4	1360.4
17.5°	1359.4	1358.3	1358.3	1357.2	1357.2	1356.2	1356.2	1356.2
20°	1351.9	1350.9	1350.9	1349.8	1349.8	1348.7	1347.8	1347.8
22.5°	1341.4	1341.4	1341.4	1340.3	1339.3	1339.3	1338.2	1338.2
25°	1331.9	1330.9	1330.9	1329.8	1328.7	1328.7	1327.7	1327.7
27.5°	1322.3	1321.3	1320.2	1318.1	1318.1	1317.0	1316.0	1315.0
30°	1311.8	1309.7	1307.6	1306.5	1305.4	1303.3	1302.2	1301.2
32.5°	1301.2	1299.2	1297.0	1294.9	1291.7	1290.6	1288.5	1288.5
35°	1294.9	1291.7	1288.5	1284.3	1281.2	1278.0	1275.9	1274.8
37.5°	1291.7	1287.5	1282.2	1276.9	1271.6	1267.3	1264.3	1264.3
40°	1287.5	1282.2	1275.9	1268.4	1262.1	1256.8	1253.6	1252.6
42.5°	1279.0	1273.7	1265.3	1258.9	1250.5	1245.2	1241.0	1239.9
45°	1264.3	1258.9	1251.5	1243.1	1234.6	1228.3	1224.0	1223.0
47.5°	1245.2	1238.8	1230.4	1221.9	1213.5	1206.1	1201.8	1200.8
50°	1220.9	1214.6	1206.1	1197.7	1188.1	1180.7	1175.4	1175.4
52.5°	1193.4	1186.0	1176.5	1167.0	1156.4	1149.0	1143.7	1142.7
55°	1157.4	1149.0	1139.5	1128.9	1117.3	1108.8	1102.5	1101.5
57.5°	1113.1	1103.5	1093.0	1081.4	1069.8	1060.2	1052.9	1051.8
60°	1057.0	1046.5	1035.9	1024.2	1011.6	1001.0	993.6	991.5
62.5°	988.4	976.7	965.1	954.5	940.7	930.2	922.8	920.7
65°	907.0	897.4	885.8	873.2	858.3	847.7	840.4	839.3
67.5°	811.8	802.3	790.7	779.0	764.2	754.7	747.3	745.2
70°	707.2	698.7	689.2	677.6	664.8	655.4	647.9	646.9
72.5°	596.2	588.8	580.4	571.9	559.2	551.8	545.5	544.4
75°	482.1	474.6	468.2	462.0	452.4	447.2	440.8	440.8
77.5°	365.8	363.6	359.4	351.9	346.7	342.5	339.3	337.2
80°	255.8	253.6	251.6	247.4	244.2	243.1	241.0	238.9
82.5°	156.4	155.3	156.4	154.4	153.3	153.3	152.2	150.1
85°	79.3	80.3	79.3	78.2	78.2	78.2	78.2	77.1
87.5°	25.3	26.4	25.3	24.4	24.4	24.4	24.4	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)