

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: P197716

Luminaire Tested: **TT-C4-LED-E1-5MQ-PM-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-E1-5MQ-PM-CG-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6468.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

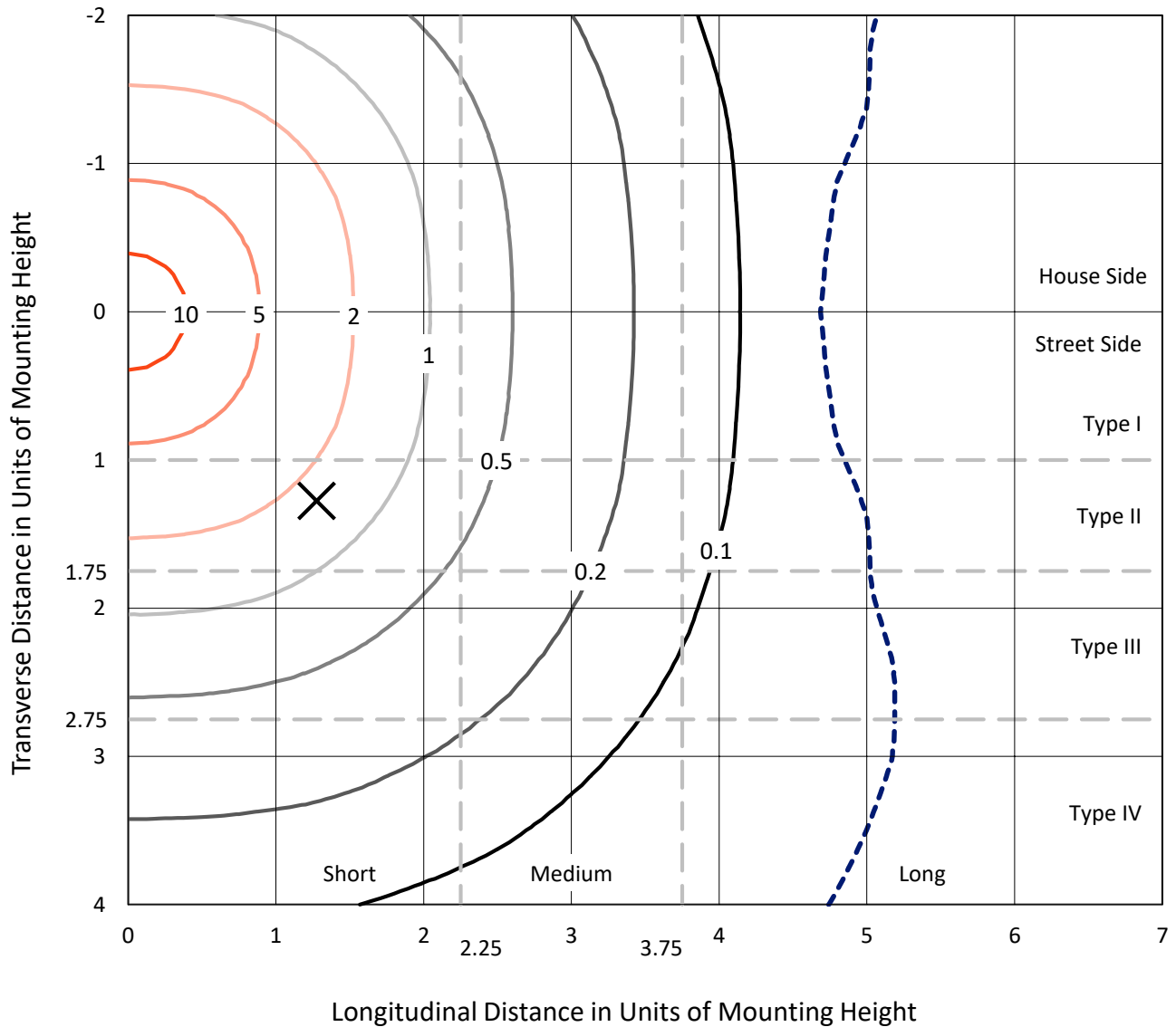
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197716
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Iso-Footcandle Lines of Horizontal Illumination

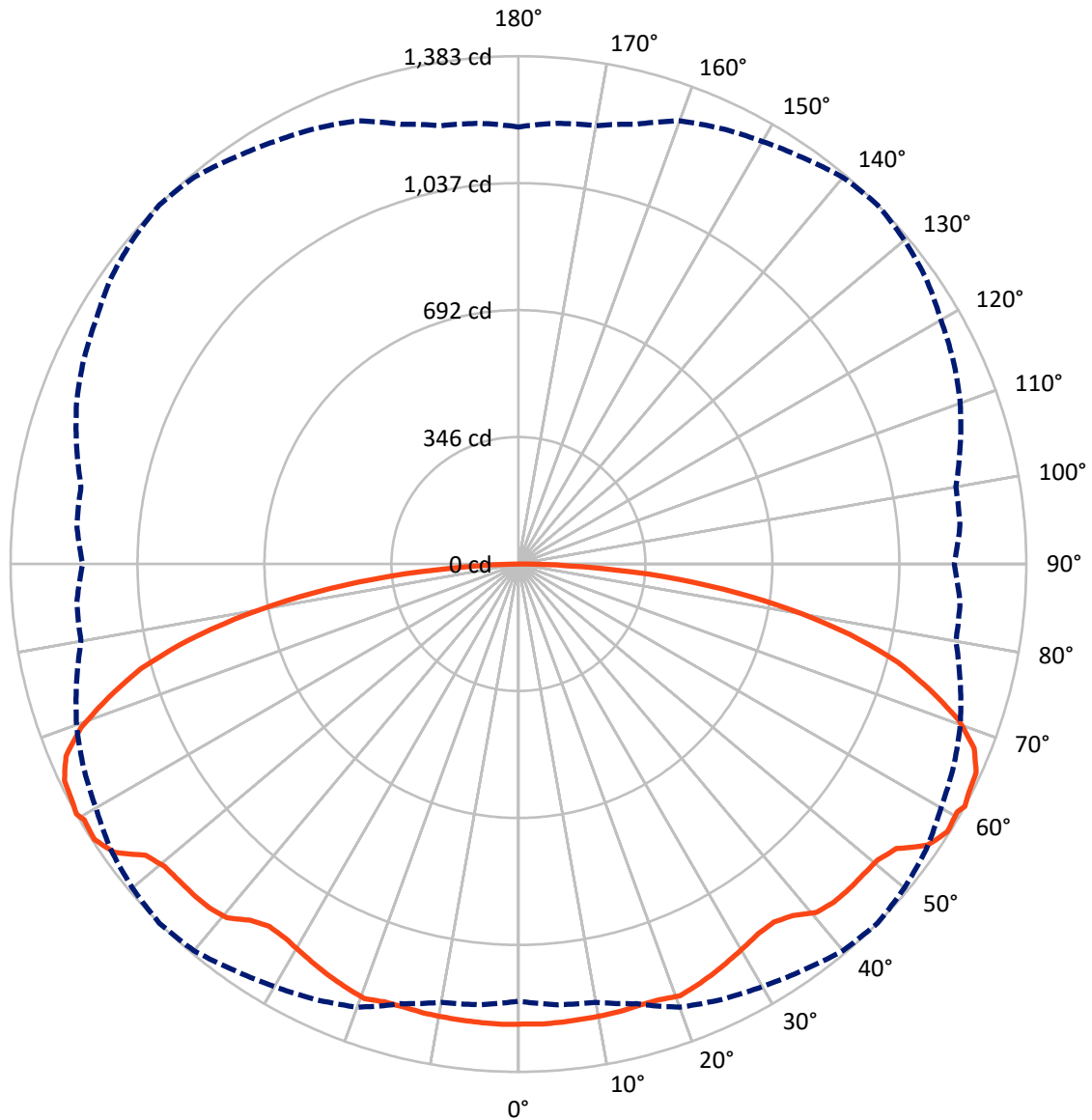
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197716
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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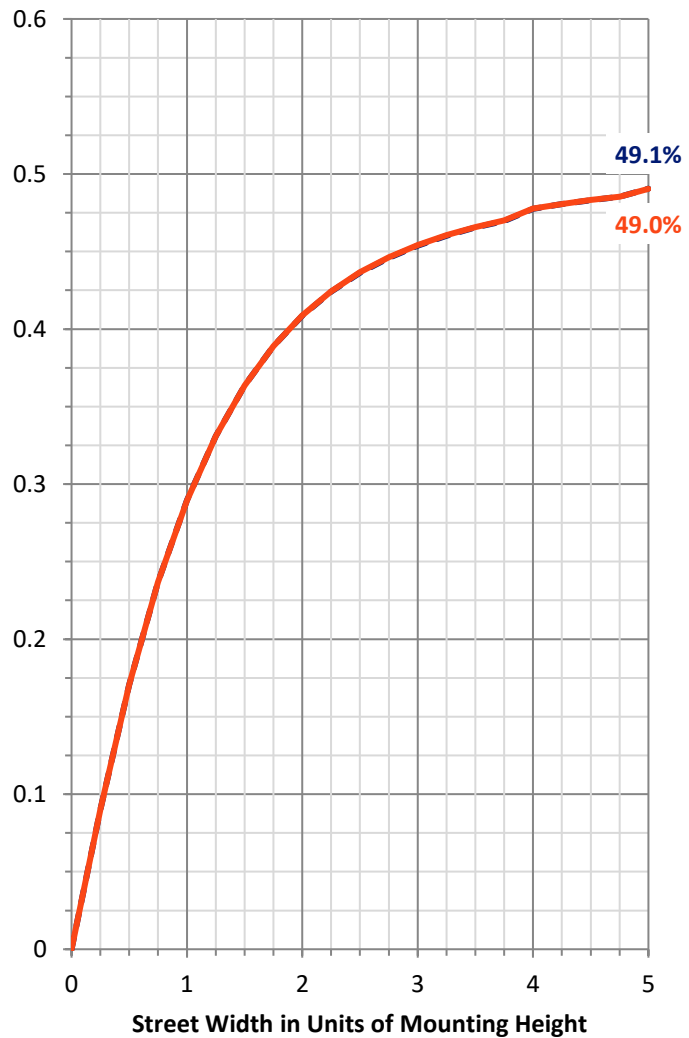
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3234.1	0.0	3234.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3234.1	0.0	3234.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6468.3	0.0	6468.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.8
10°-20°	353.4	5.5
20°-30°	568.7	8.8
30°-40°	753.4	11.6
40°-50°	951.4	14.7
50°-60°	1140.0	17.6
60°-70°	1246.5	19.3
70°-80°	997.8	15.4
80°-90°	337.6	5.2
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°	6468.3	100.0
0°-180°	6468.3	100.0



REPORT NUMBER: P197716

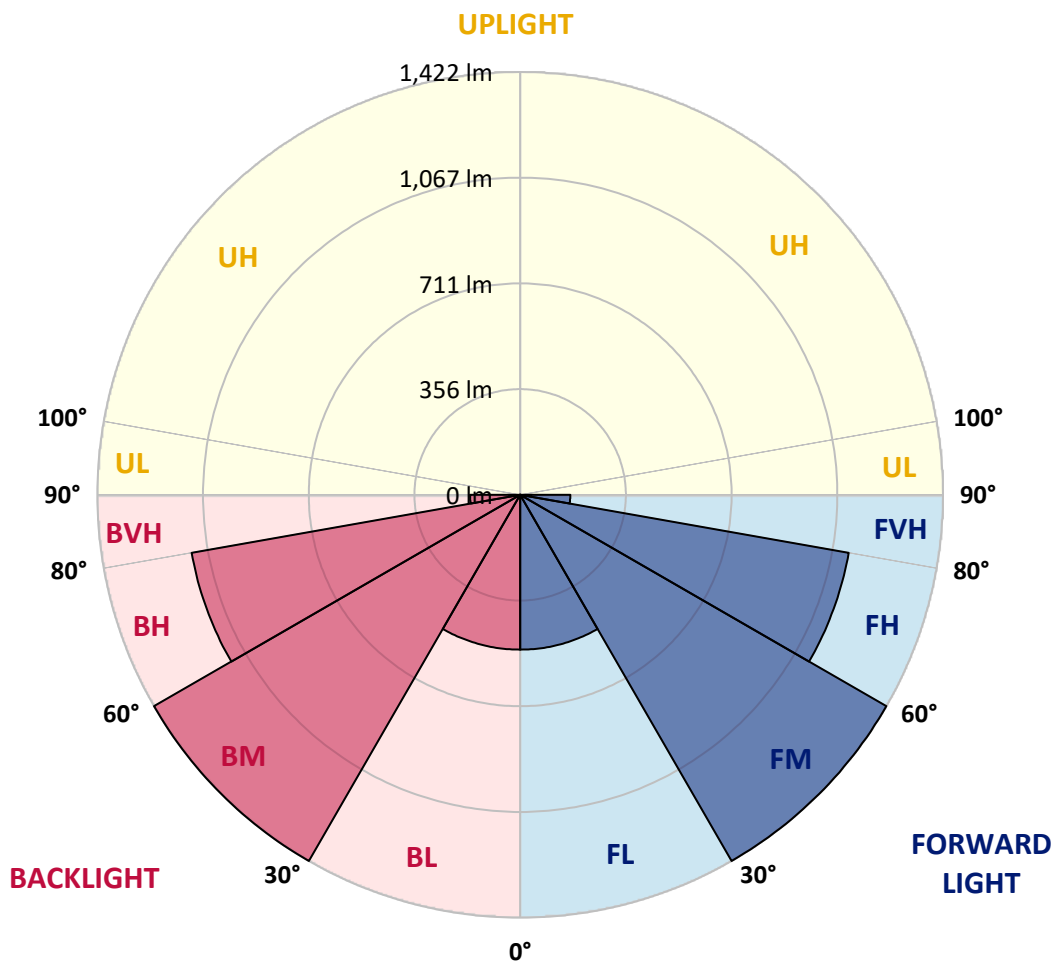
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.8	8.1			
FM (30°-60°)	1422.4	22.0			
FH (60°-80°)	1122.1	17.3			G1/1800
FVH (80°-90°)	168.8	2.6			G2/225
BL (0°-30°)	520.8	8.1	B2/1000		
BM (30°-60°)	1422.4	22.0	B2/2500		
BH (60°-80°)	1122.1	17.3	B3/2500		G1/1800
BVH (80°-90°)	168.8	2.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P197716

CATALOG NUMBER: TT-C4-LED-E1-5MQ-PM-CG-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1254.4	1253.2	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4
5°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
7.5°	1251.9	1251.9	1251.9	1251.9	1251.9	1251.9	1251.9	1251.9	1253.2	1251.9	1253.2
10°	1249.6	1249.6	1249.6	1249.6	1250.7	1250.7	1250.7	1250.7	1250.7	1250.7	1250.7
12.5°	1247.2	1247.2	1247.2	1247.2	1248.4	1248.4	1248.4	1248.4	1249.6	1249.6	1248.4
15°	1244.7	1243.5	1243.5	1244.7	1244.7	1246.0	1246.0	1246.0	1247.2	1246.0	1246.0
17.5°	1242.3	1241.1	1242.3	1243.5	1243.5	1244.7	1246.0	1246.0	1247.2	1247.2	1247.2
20°	1246.0	1244.7	1246.0	1247.2	1248.4	1250.7	1251.9	1253.2	1254.4	1255.6	1255.6
22.5°	1238.8	1237.5	1238.8	1238.8	1240.0	1241.1	1243.5	1244.7	1246.0	1246.0	1246.0
25°	1227.9	1227.9	1229.1	1229.1	1230.3	1231.4	1232.7	1233.9	1233.9	1235.1	1233.9
27.5°	1215.8	1215.8	1217.0	1217.0	1219.5	1219.5	1220.7	1221.8	1223.0	1223.0	1223.0
30°	1201.4	1201.4	1202.5	1203.7	1206.2	1207.4	1208.6	1209.8	1211.1	1211.1	1211.1
32.5°	1188.1	1186.9	1188.1	1190.6	1194.1	1196.5	1199.0	1200.2	1200.2	1200.2	1201.4
35°	1177.3	1178.5	1180.9	1183.2	1188.1	1190.6	1192.9	1196.5	1197.8	1197.8	1197.8
37.5°	1179.7	1180.9	1184.5	1189.4	1195.3	1202.5	1207.4	1212.2	1215.8	1214.6	1213.4
40°	1195.3	1197.8	1203.7	1211.1	1220.7	1230.3	1237.5	1243.5	1247.2	1248.4	1247.2
42.5°	1197.8	1200.2	1205.0	1215.8	1226.7	1237.5	1247.2	1253.2	1258.0	1259.3	1258.0
45°	1196.5	1196.5	1203.7	1215.8	1226.7	1237.5	1249.6	1258.0	1262.8	1262.8	1262.8
47.5°	1188.1	1191.8	1196.5	1208.6	1223.0	1233.9	1246.0	1254.4	1260.4	1264.0	1260.4
50°	1188.1	1188.1	1196.5	1205.0	1218.3	1237.5	1254.4	1262.8	1268.9	1267.7	1268.9
52.5°	1185.7	1192.9	1197.8	1209.8	1233.9	1253.2	1266.5	1278.5	1287.0	1288.2	1285.7
55°	1207.4	1208.6	1219.5	1242.3	1265.2	1287.0	1311.0	1329.0	1343.6	1352.0	1339.9
57.5°	1224.2	1218.3	1240.0	1259.3	1285.7	1318.3	1354.4	1368.8	1379.7	1377.2	1380.9
60°	1201.4	1209.8	1225.5	1246.0	1288.2	1320.6	1339.9	1355.7	1368.8	1372.5	1367.6
61°	1190.6	1205.0	1212.2	1240.0	1284.5	1308.7	1329.0	1350.8	1374.9	1383.3	1372.5
62.5°	1172.5	1195.3	1192.9	1237.5	1265.2	1292.9	1331.5	1356.9	1373.7	1376.1	1373.7
65°	1173.6	1170.1	1197.8	1230.3	1258.0	1307.5	1339.9	1355.7	1365.3	1370.0	1367.6
67.5°	1135.0	1123.1	1156.8	1179.7	1226.7	1265.2	1296.6	1319.4	1333.9	1338.7	1332.7
70°	1046.0	1054.4	1078.4	1113.5	1152.0	1199.0	1227.9	1258.0	1270.0	1271.2	1271.2
72.5°	960.3	965.2	989.2	1021.8	1066.4	1107.4	1136.3	1160.4	1171.3	1172.5	1174.8
75°	847.1	851.9	879.7	909.8	954.4	989.2	1009.7	1038.7	1054.4	1067.6	1056.7
77.5°	715.7	724.3	745.8	778.4	819.4	838.7	874.8	908.6	919.5	923.0	919.5
80°	567.6	578.5	597.7	641.0	659.1	690.5	725.3	739.9	749.5	751.9	753.2
82.5°	408.5	416.9	437.4	467.5	488.0	513.3	537.5	555.5	566.4	563.9	562.7
85°	241.0	243.4	265.1	285.6	301.2	316.9	336.1	349.4	351.9	356.6	355.4
87.5°	72.4	73.4	83.1	93.9	101.3	108.5	120.6	136.2	139.8	130.2	131.4
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°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1253.2	1254.4
5°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
7.5°	1253.2	1251.9	1251.9	1251.9	1251.9	1251.9	1251.9	1251.9
10°	1250.7	1250.7	1250.7	1250.7	1249.6	1249.6	1249.6	1249.6
12.5°	1248.4	1248.4	1248.4	1248.4	1247.2	1247.2	1247.2	1247.2
15°	1246.0	1246.0	1246.0	1246.0	1244.7	1244.7	1244.7	1244.7
17.5°	1247.2	1246.0	1244.7	1244.7	1243.5	1242.3	1242.3	1242.3
20°	1254.4	1253.2	1250.7	1248.4	1247.2	1246.0	1246.0	1246.0
22.5°	1244.7	1243.5	1241.1	1240.0	1240.0	1238.8	1237.5	1237.5
25°	1233.9	1231.4	1231.4	1230.3	1230.3	1227.9	1227.9	1226.7
27.5°	1221.8	1220.7	1219.5	1218.3	1218.3	1217.0	1215.8	1214.6
30°	1211.1	1208.6	1206.2	1205.0	1203.7	1202.5	1202.5	1202.5
32.5°	1200.2	1197.8	1196.5	1192.9	1190.6	1189.4	1188.1	1188.1
35°	1196.5	1192.9	1190.6	1186.9	1183.2	1180.9	1179.7	1177.3
37.5°	1211.1	1206.2	1202.5	1196.5	1188.1	1184.5	1180.9	1179.7
40°	1242.3	1237.5	1230.3	1220.7	1211.1	1203.7	1197.8	1195.3
42.5°	1253.2	1247.2	1237.5	1227.9	1215.8	1205.0	1200.2	1197.8
45°	1256.8	1250.7	1237.5	1225.5	1214.6	1205.0	1197.8	1195.3
47.5°	1253.2	1244.7	1232.7	1223.0	1207.4	1195.3	1190.6	1186.9
50°	1261.6	1254.4	1238.8	1217.0	1203.7	1196.5	1188.1	1186.9
52.5°	1278.5	1265.2	1250.7	1235.1	1209.8	1195.3	1190.6	1184.5
55°	1329.0	1311.0	1285.7	1260.4	1244.7	1221.8	1207.4	1207.4
57.5°	1367.6	1353.2	1320.6	1287.0	1258.0	1241.1	1219.5	1220.7
60°	1356.9	1337.6	1321.8	1288.2	1247.2	1224.2	1215.8	1200.2
61°	1355.7	1329.0	1307.5	1280.8	1246.0	1209.8	1207.4	1186.9
62.5°	1358.0	1333.9	1292.9	1265.2	1238.8	1191.8	1190.6	1171.3
65°	1355.7	1332.7	1312.2	1260.4	1224.2	1205.0	1164.0	1179.7
67.5°	1318.3	1297.8	1260.4	1231.4	1176.0	1152.0	1129.1	1129.1
70°	1259.3	1229.1	1192.9	1156.8	1119.4	1078.4	1057.9	1046.0
72.5°	1160.4	1135.0	1106.1	1067.6	1021.8	984.5	965.2	956.8
75°	1036.4	1008.5	983.3	954.4	906.2	874.8	854.3	848.3
77.5°	906.2	882.0	837.5	809.8	777.2	741.1	723.0	715.7
80°	739.9	726.6	695.3	650.7	635.1	590.4	578.5	567.6
82.5°	555.5	541.0	512.1	480.8	461.6	436.2	414.5	412.2
85°	349.4	339.8	321.7	298.8	274.8	260.2	241.0	245.9
87.5°	130.2	124.1	113.2	98.8	88.0	78.3	68.7	72.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)