

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: P197521

Luminaire Tested: **TT-C4-LED-E1-5CQ-PM-LWR-LW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)  
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-LWR-LW-8030  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (160) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5023.7 lumens  
Efficiency: N/A  
Efficacy: 86.6 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 (A<sub>in</sub>): 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

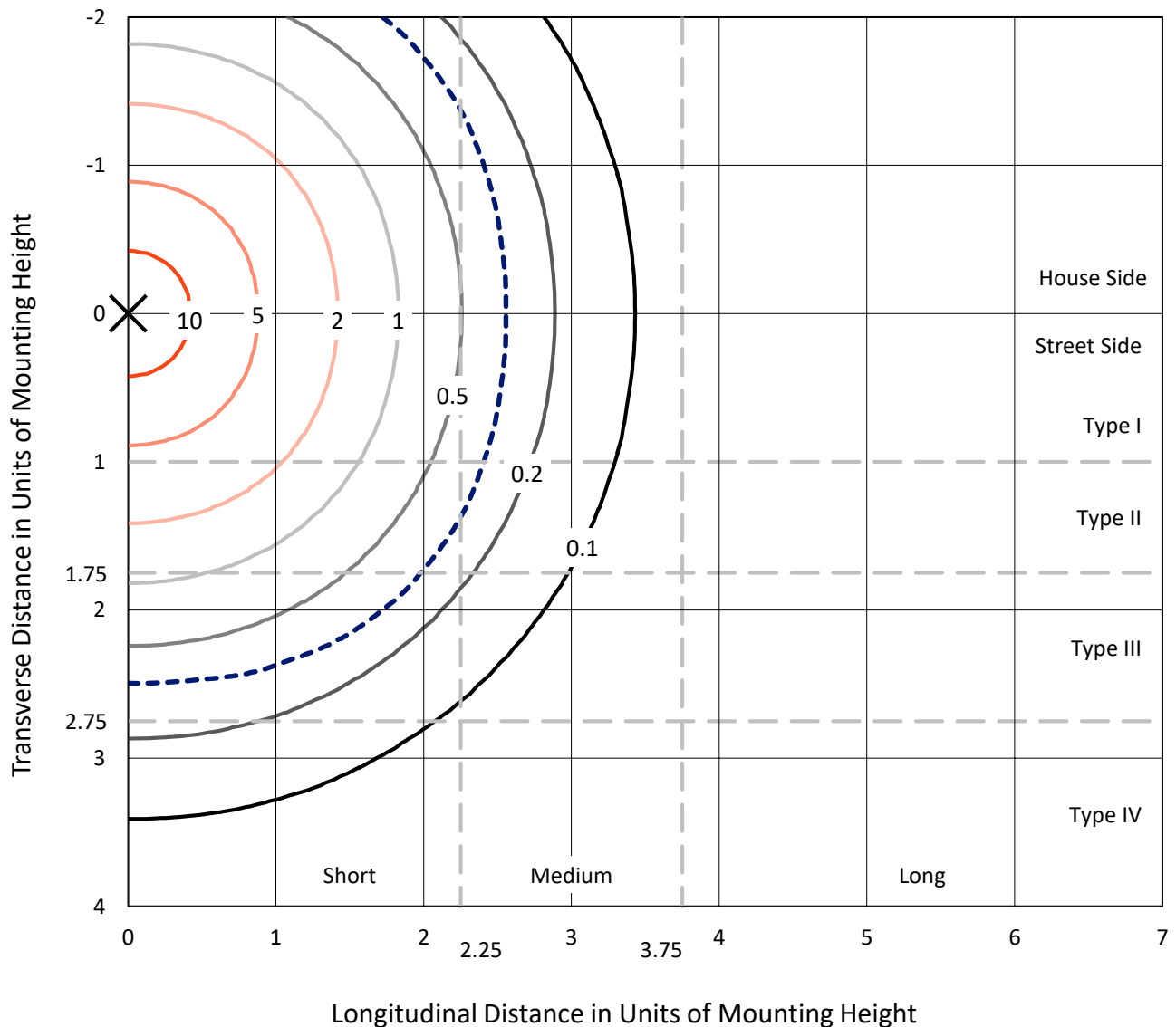


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

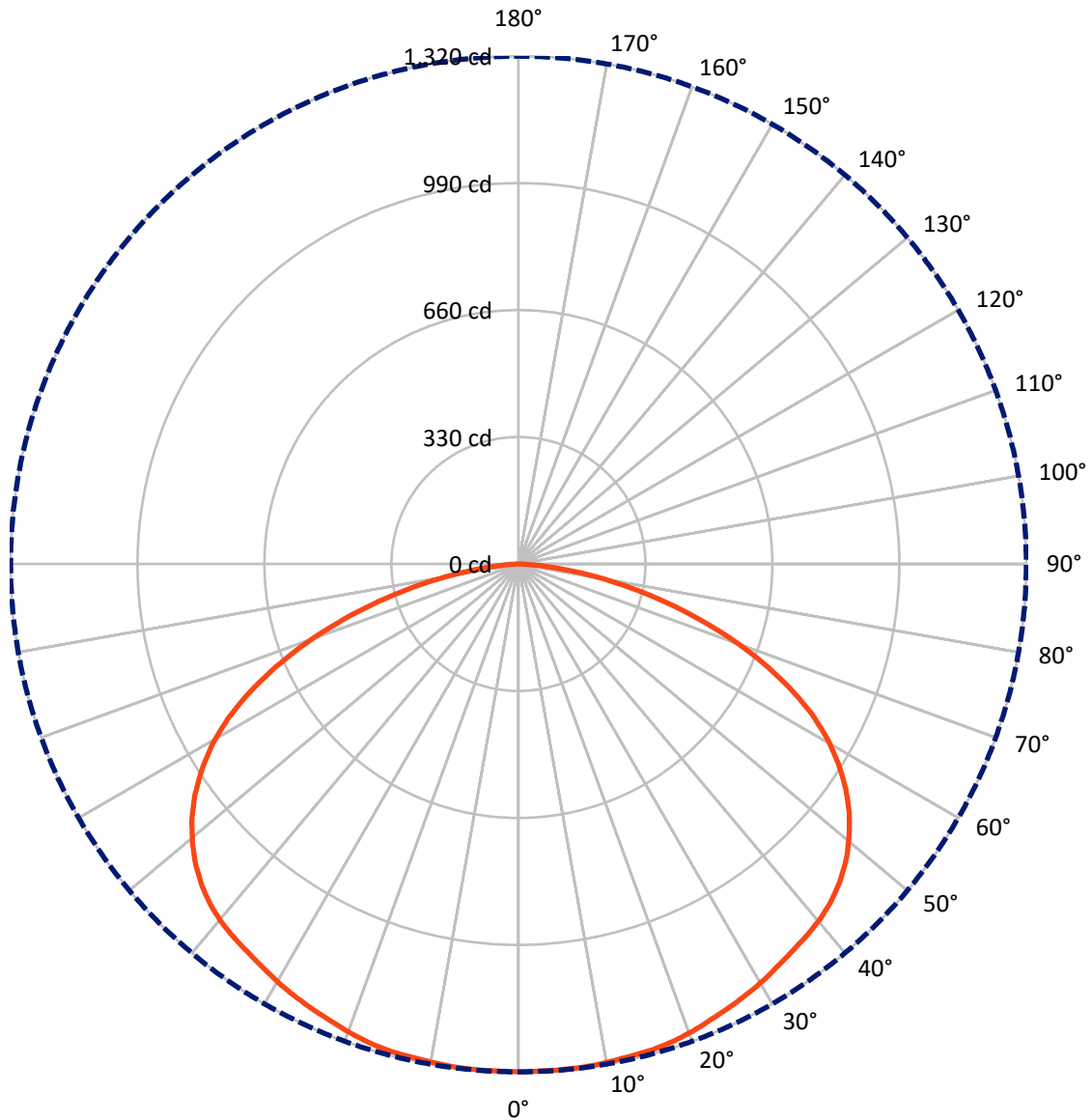


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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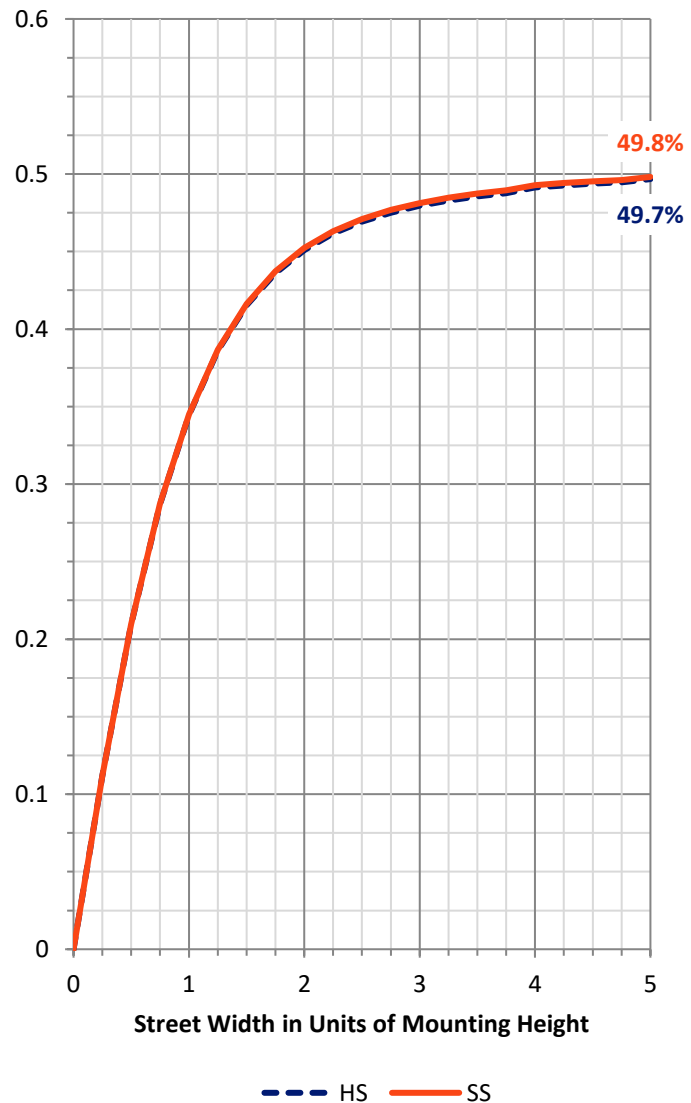
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2511.9	0.0	2511.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2511.9	0.0	2511.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5023.7	0.0	5023.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	2.5
10°-20°	370.5	7.4
20°-30°	590.0	11.7
30°-40°	773.6	15.4
40°-50°	912.4	18.2
50°-60°	945.0	18.8
60°-70°	790.2	15.7
70°-80°	430.7	8.6
80°-90°	85.5	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°	5023.7	100.0
0°-180°	5023.7	100.0



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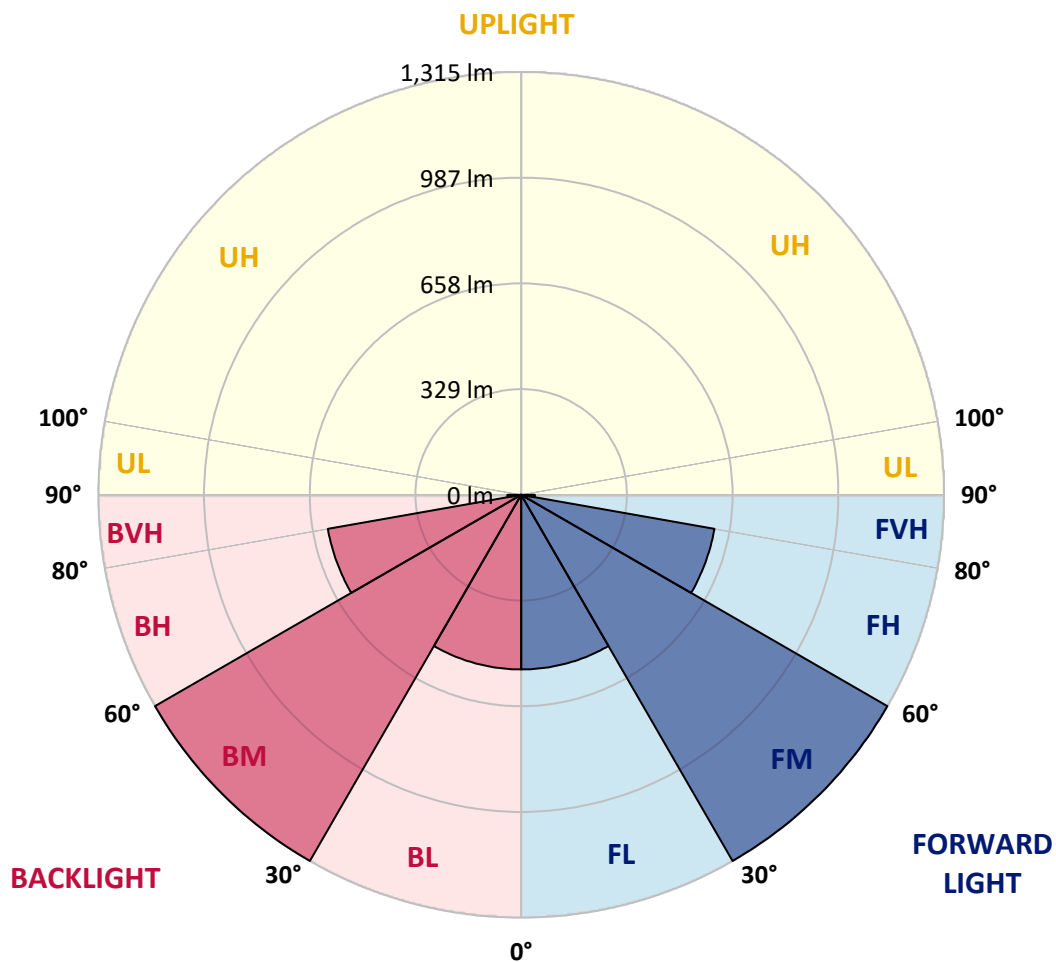
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.2	10.8			
FM	(30°-60°)	1315.5	26.2			
FH	(60°-80°)	610.5	12.2			G0/660
FVH	(80°-90°)	42.7	0.9			G1/100
BL	(0°-30°)	543.2	10.8	B2/1000		
BM	(30°-60°)	1315.5	26.2	B2/2500		
BH	(60°-80°)	610.5	12.2	B2/1000		G0/660
BVH	(80°-90°)	42.7	0.9			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°	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2
2.5°	1319.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1319.2	1320.2	1320.2
5°	1319.2	1319.2	1319.2	1319.2	1320.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
7.5°	1318.1	1317.0	1317.0	1317.0	1317.0	1317.0	1318.1	1318.1	1318.1	1318.1	1318.1
10°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
12.5°	1311.8	1311.8	1311.8	1311.8	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1311.8
15°	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
17.5°	1304.4	1304.4	1304.4	1304.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4
20°	1296.0	1296.0	1296.0	1296.0	1296.0	1297.0	1298.1	1298.1	1298.1	1298.1	1298.1
22.5°	1285.3	1285.3	1286.4	1286.4	1287.5	1287.5	1288.5	1288.5	1288.5	1288.5	1288.5
25°	1275.9	1275.9	1275.9	1276.9	1276.9	1276.9	1278.0	1279.0	1279.0	1279.0	1278.0
27.5°	1266.4	1266.4	1266.4	1267.3	1267.3	1267.3	1268.4	1268.4	1269.5	1268.4	1268.4
30°	1255.7	1254.7	1254.7	1255.7	1256.8	1256.8	1257.9	1257.9	1257.9	1257.9	1256.8
32.5°	1243.1	1243.1	1244.1	1245.2	1245.2	1246.3	1247.3	1247.3	1247.3	1248.4	1246.3
35°	1231.5	1232.5	1232.5	1233.6	1235.6	1236.7	1237.8	1238.8	1238.8	1238.8	1236.7
37.5°	1221.9	1223.0	1224.0	1226.2	1228.3	1230.4	1232.5	1234.6	1233.6	1233.6	1230.4
40°	1210.3	1211.4	1213.5	1215.6	1219.8	1221.9	1225.1	1227.2	1228.3	1227.2	1224.0
42.5°	1194.5	1195.5	1197.7	1200.8	1206.1	1210.3	1213.5	1216.7	1217.8	1216.7	1213.5
45°	1173.3	1174.4	1176.5	1180.7	1187.0	1191.3	1196.6	1199.8	1201.8	1201.8	1198.7
47.5°	1146.9	1148.0	1151.2	1155.3	1161.7	1167.0	1173.3	1177.5	1179.7	1181.8	1178.6
50°	1114.1	1115.2	1119.5	1124.7	1130.0	1137.3	1144.8	1151.2	1154.3	1155.3	1154.3
52.5°	1077.1	1078.2	1082.4	1087.7	1095.1	1103.5	1112.0	1119.5	1123.6	1125.7	1123.6
55°	1032.7	1034.9	1038.1	1045.4	1053.9	1061.3	1071.8	1080.3	1085.6	1086.7	1085.6
57.5°	980.9	984.1	987.3	995.7	1004.2	1014.8	1023.2	1031.7	1038.1	1039.0	1039.0
60°	922.8	924.9	928.1	936.6	946.0	953.5	965.1	973.5	978.8	978.8	979.9
62.5°	854.1	856.2	861.5	867.8	878.4	885.8	895.3	903.8	909.0	911.1	910.1
65°	773.8	775.9	779.0	787.5	795.9	804.4	813.9	821.3	826.6	827.6	826.6
67.5°	685.0	687.1	689.2	699.7	708.2	711.3	723.0	729.3	732.5	733.6	733.6
70°	590.9	592.0	595.2	600.4	609.9	613.0	620.5	625.8	627.9	632.1	629.0
72.5°	492.6	494.7	502.1	503.1	510.6	514.8	516.9	516.9	522.2	522.2	523.2
75°	395.4	396.4	399.6	400.6	405.9	405.9	404.8	407.0	411.2	411.2	412.3
77.5°	299.2	299.2	304.4	300.2	302.4	298.1	300.2	298.1	301.3	300.2	301.3
80°	209.3	209.3	212.5	208.2	209.3	205.0	206.1	205.0	205.0	206.1	206.1
82.5°	128.9	130.0	132.1	128.9	128.9	125.8	126.8	127.9	127.9	126.8	125.8
85°	63.4	63.4	65.5	64.5	63.4	61.3	62.3	63.4	63.4	62.3	62.3
87.5°	16.9	16.9	18.0	18.0	16.9	15.9	16.9	18.0	18.0	18.0	16.9
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°	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2
2.5°	1319.2	1319.2	1320.2	1319.2	1320.2	1319.2	1320.2	1320.2
5°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
7.5°	1317.0	1318.1	1317.0	1317.0	1317.0	1318.1	1317.0	1318.1
10°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
12.5°	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1310.8
15°	1309.7	1308.6	1308.6	1308.6	1307.6	1307.6	1307.6	1307.6
17.5°	1305.4	1304.4	1303.3	1303.3	1303.3	1303.3	1302.2	1302.2
20°	1298.1	1297.0	1296.0	1296.0	1294.9	1294.9	1293.8	1293.8
22.5°	1287.5	1287.5	1286.4	1285.3	1285.3	1284.3	1284.3	1283.3
25°	1278.0	1276.9	1275.9	1274.8	1273.7	1273.7	1272.7	1271.6
27.5°	1267.3	1265.3	1264.3	1263.2	1262.1	1261.1	1260.0	1258.9
30°	1255.7	1253.6	1251.5	1250.5	1248.4	1246.3	1245.2	1244.1
32.5°	1244.1	1242.0	1238.8	1235.6	1233.6	1231.5	1229.4	1228.3
35°	1234.6	1230.4	1227.2	1223.0	1219.8	1216.7	1215.6	1214.6
37.5°	1227.2	1223.0	1217.8	1213.5	1210.3	1206.1	1203.9	1201.8
40°	1219.8	1214.6	1208.2	1202.9	1198.7	1193.4	1191.3	1189.1
42.5°	1209.3	1202.9	1196.6	1190.2	1183.9	1178.6	1175.4	1173.3
45°	1194.5	1188.1	1180.7	1172.2	1165.9	1159.6	1156.4	1154.3
47.5°	1174.4	1168.1	1159.6	1152.2	1144.8	1138.4	1134.2	1132.1
50°	1150.1	1143.7	1135.3	1126.8	1119.5	1112.0	1108.8	1105.6
52.5°	1119.5	1114.1	1104.6	1098.3	1089.8	1082.4	1079.2	1077.1
55°	1081.4	1076.1	1066.6	1060.2	1051.8	1045.4	1041.2	1038.1
57.5°	1034.9	1030.6	1020.1	1013.7	1005.3	998.9	995.7	993.6
60°	977.7	973.5	963.0	956.6	949.2	941.8	939.8	937.6
62.5°	907.0	904.9	896.4	889.0	881.6	874.2	872.1	871.0
65°	824.5	822.4	815.0	808.7	802.3	795.9	793.8	791.8
67.5°	730.4	729.3	723.0	717.7	713.5	707.2	706.1	704.0
70°	630.0	627.9	622.6	618.4	615.2	609.9	608.9	606.8
72.5°	525.4	524.3	521.1	515.8	515.8	508.4	507.4	506.3
75°	410.1	415.5	411.2	409.1	409.1	404.8	404.8	403.8
77.5°	300.2	305.5	308.6	304.4	308.6	304.4	304.4	303.3
80°	205.0	209.3	212.5	209.3	214.6	211.4	211.4	215.7
82.5°	124.7	128.9	131.1	130.0	133.2	132.1	131.1	134.3
85°	61.3	63.4	64.5	64.5	65.5	63.4	65.5	66.6
87.5°	15.9	16.9	18.0	16.9	18.0	18.0	18.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)