

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: P197597

Luminaire Tested: **TT-C5-LED-E1-MQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-MQ-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM 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: 6443.3 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

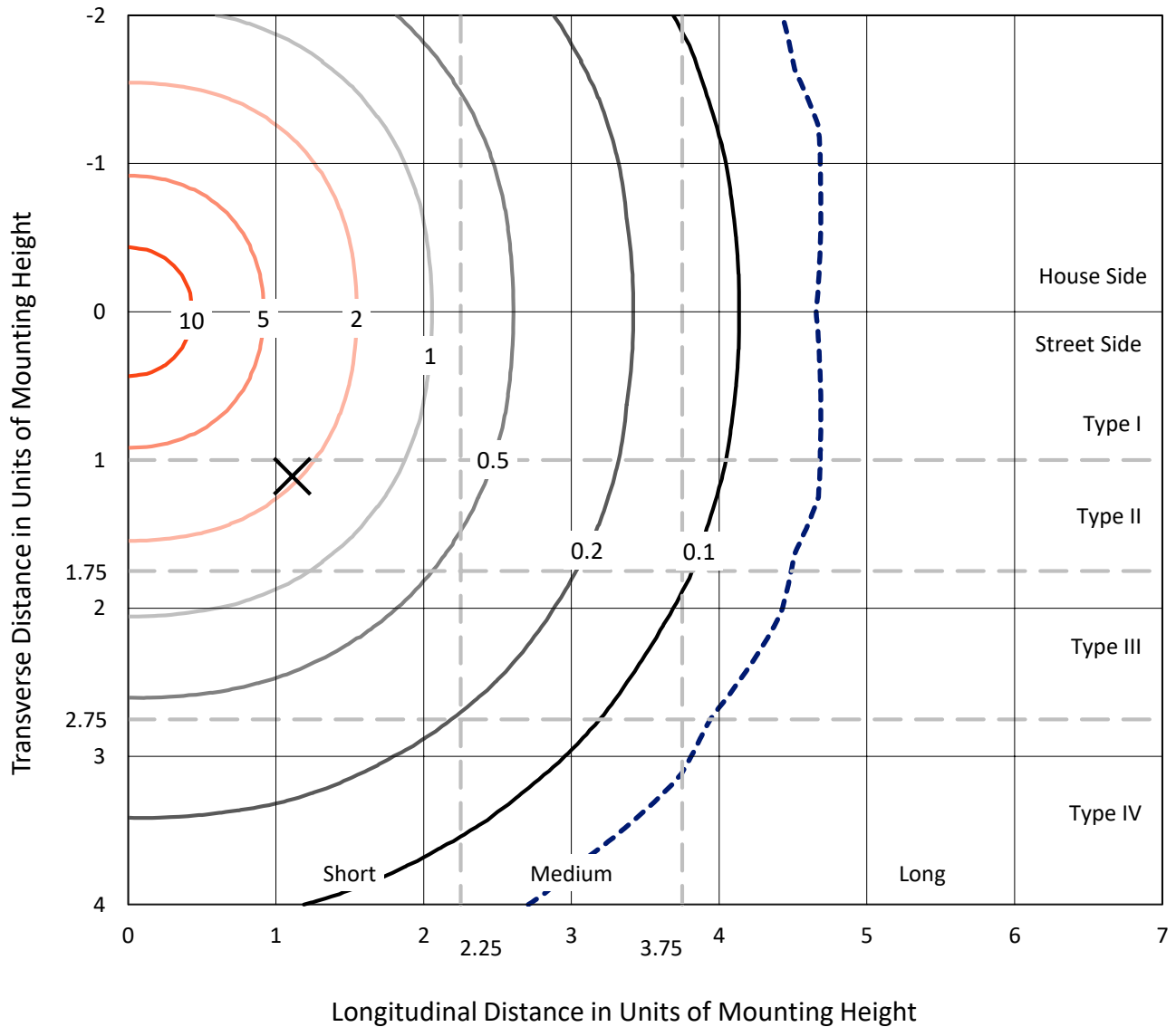
Input Watts (W): 77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

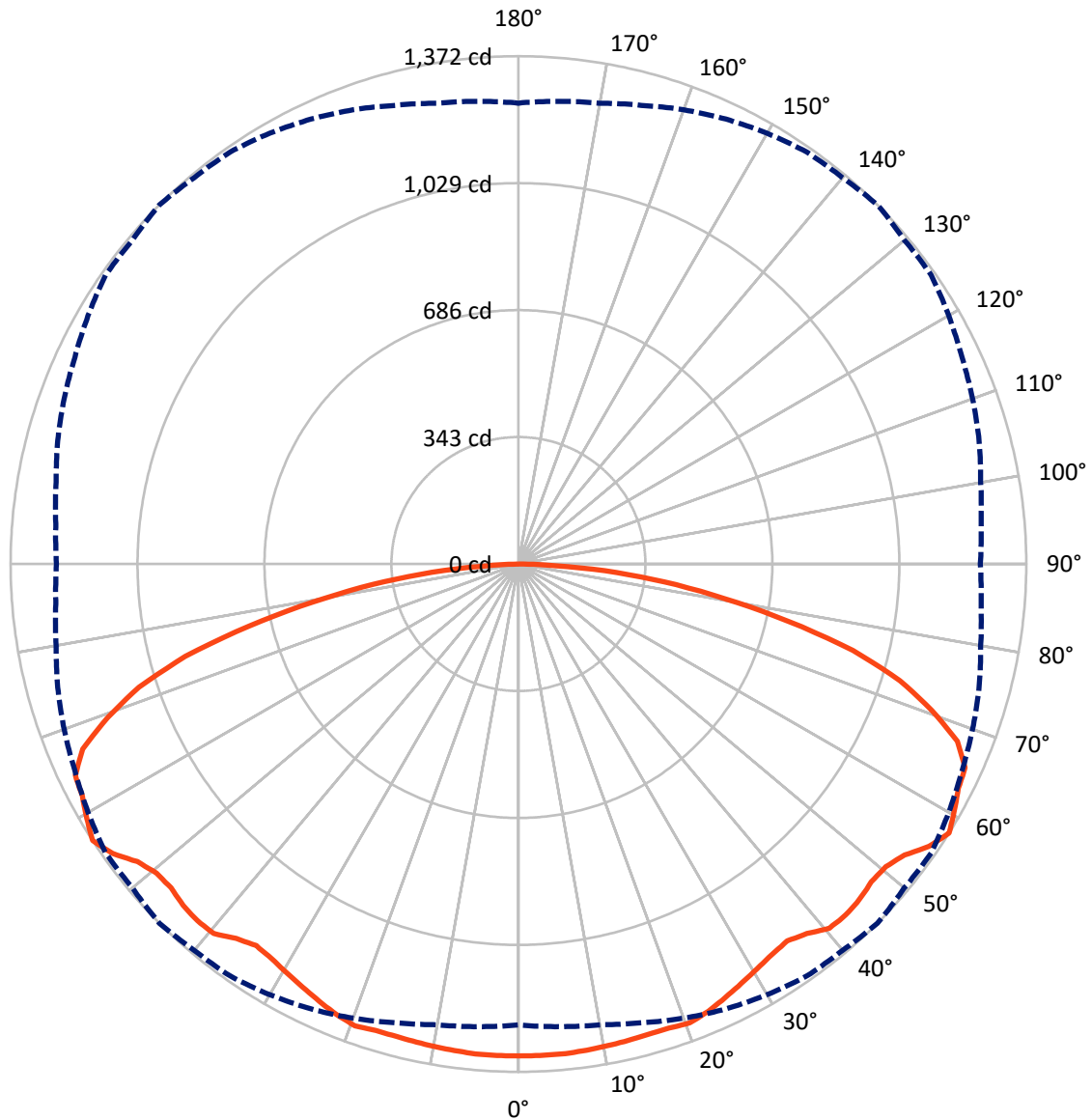
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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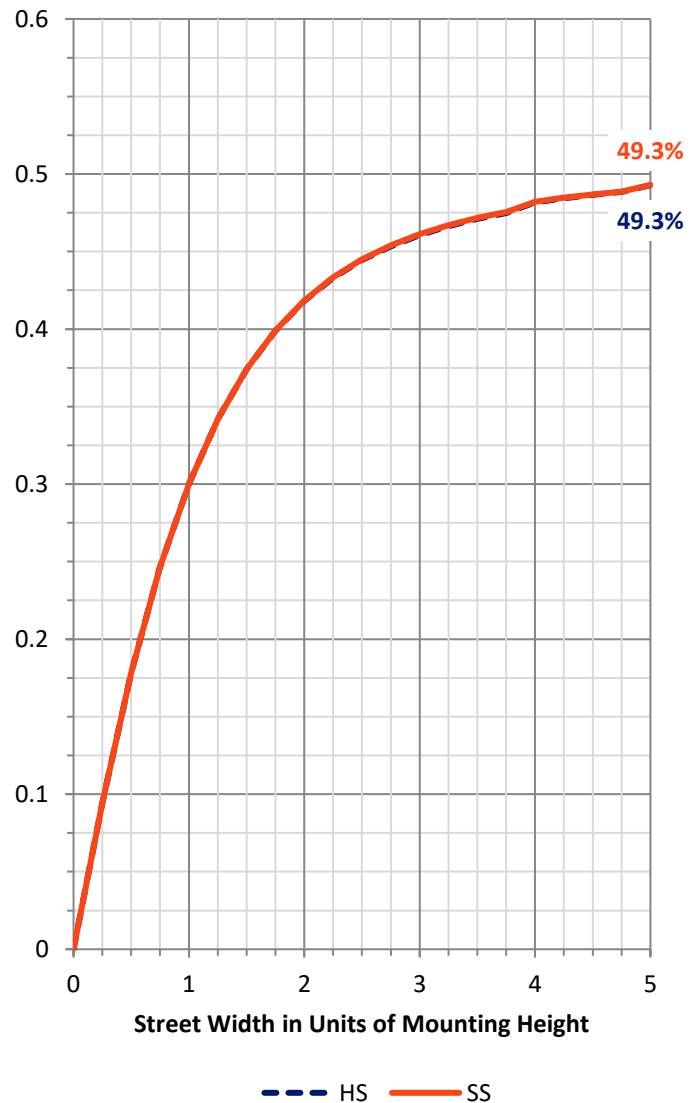
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3221.6	0.0	3221.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3221.6	0.0	3221.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6443.3	0.0	6443.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	2.0
10°-20°	373.6	5.8
20°-30°	598.3	9.3
30°-40°	787.6	12.2
40°-50°	981.0	15.2
50°-60°	1155.6	17.9
60°-70°	1228.6	19.1
70°-80°	921.3	14.3
80°-90°	270.5	4.2
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°	6443.3	100.0
0°-180°	6443.3	100.0



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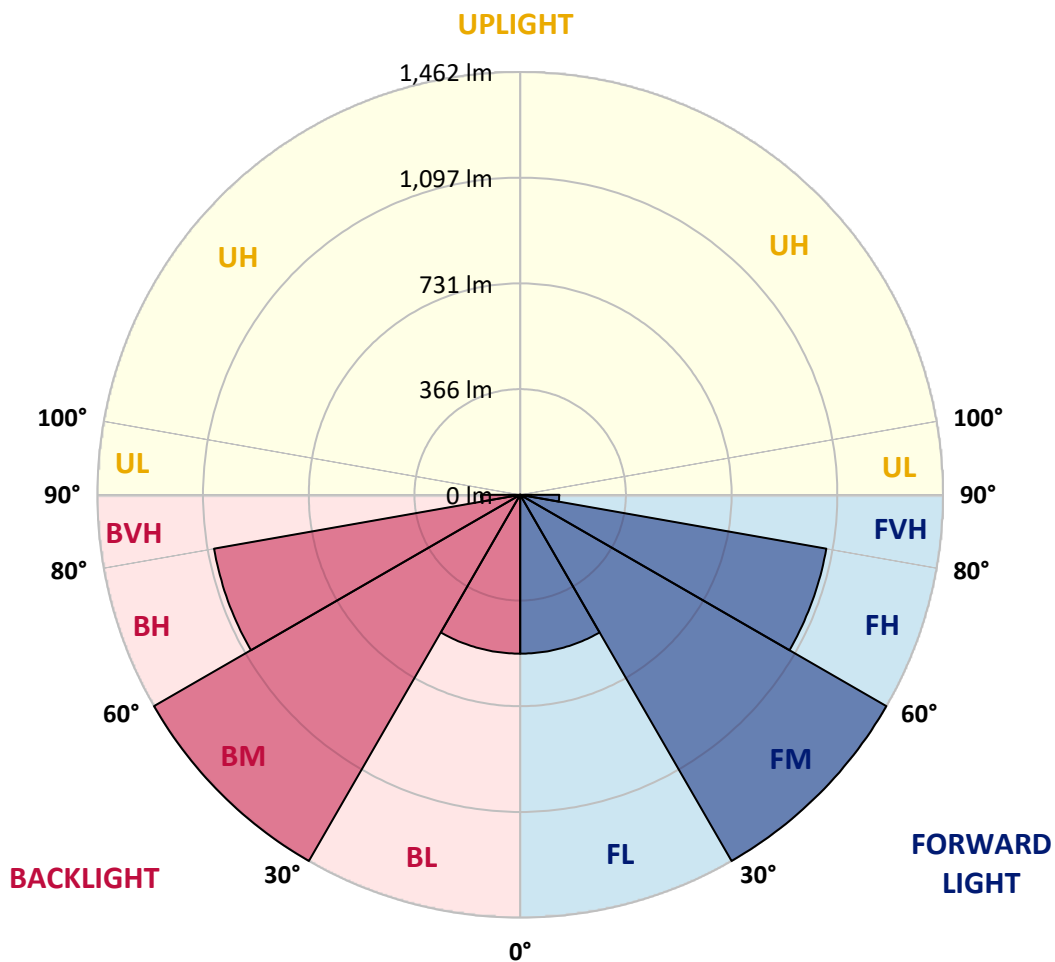
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.3	8.5			
FM (30°-60°)	1462.2	22.7			
FH (60°-80°)	1074.9	16.7			G1/1800
FVH (80°-90°)	135.3	2.1			G2/225
BL (0°-30°)	549.3	8.5	B2/1000		
BM (30°-60°)	1462.2	22.7	B2/2500		
BH (60°-80°)	1074.9	16.7	B3/2500		G1/1800
BVH (80°-90°)	135.3	2.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1
2.5°	1327.7	1327.7	1327.7	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1
5°	1327.7	1327.7	1327.7	1327.7	1327.7	1327.7	1329.1	1329.1	1329.1	1329.1	1329.1
7.5°	1325.0	1325.0	1325.0	1325.0	1325.0	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4
10°	1322.3	1322.3	1322.3	1322.3	1323.7	1323.7	1323.7	1323.7	1323.7	1323.7	1323.7
12.5°	1319.6	1319.6	1318.3	1319.6	1319.6	1319.6	1321.0	1321.0	1321.0	1321.0	1321.0
15°	1314.2	1314.2	1315.6	1315.6	1316.9	1316.9	1316.9	1316.9	1318.3	1318.3	1318.3
17.5°	1311.5	1311.5	1312.9	1314.2	1314.2	1315.6	1316.9	1316.9	1318.3	1318.3	1318.3
20°	1315.6	1315.6	1315.6	1316.9	1318.3	1319.6	1321.0	1322.3	1322.3	1323.7	1322.3
22.5°	1307.5	1307.5	1307.5	1308.8	1308.8	1308.8	1310.2	1311.5	1311.5	1312.9	1311.5
25°	1292.6	1292.6	1294.0	1294.0	1295.3	1295.3	1296.7	1296.7	1296.7	1298.0	1298.0
27.5°	1277.8	1276.5	1279.2	1279.2	1280.5	1280.5	1281.9	1283.2	1283.2	1283.2	1284.6
30°	1261.6	1261.6	1263.0	1263.0	1264.3	1265.7	1267.0	1268.4	1268.4	1269.7	1269.7
32.5°	1244.1	1245.4	1246.8	1248.1	1249.5	1252.2	1253.5	1254.9	1256.2	1257.6	1256.2
35°	1231.9	1233.3	1234.6	1237.3	1241.4	1244.1	1246.8	1249.5	1250.8	1250.8	1250.8
37.5°	1234.6	1236.0	1238.7	1244.1	1250.8	1254.9	1260.3	1264.3	1265.7	1267.0	1267.0
40°	1249.5	1252.2	1256.2	1263.0	1271.1	1277.8	1285.9	1289.9	1292.6	1294.0	1292.6
42.5°	1248.1	1252.2	1256.2	1264.3	1273.8	1280.5	1288.6	1292.6	1295.3	1296.7	1295.3
45°	1244.1	1246.8	1250.8	1258.9	1265.7	1275.1	1283.2	1287.2	1291.3	1292.6	1291.3
47.5°	1234.6	1234.6	1236.0	1244.1	1253.5	1265.7	1272.4	1279.2	1283.2	1283.2	1283.2
50°	1222.5	1227.9	1230.6	1241.4	1250.8	1261.6	1273.8	1283.2	1284.6	1285.9	1284.6
52.5°	1222.5	1223.8	1233.3	1240.0	1258.9	1275.1	1287.2	1296.7	1304.8	1306.1	1306.1
55°	1244.1	1246.8	1252.2	1268.4	1283.2	1307.5	1327.7	1335.8	1341.2	1346.6	1341.2
57.5°	1245.4	1254.9	1264.3	1283.2	1306.1	1326.4	1343.9	1358.8	1362.8	1372.3	1361.5
60°	1229.2	1231.9	1241.4	1264.3	1294.0	1315.6	1331.8	1345.3	1358.8	1353.4	1358.8
62.5°	1203.6	1210.3	1223.8	1241.4	1265.7	1291.3	1315.6	1319.6	1339.9	1334.5	1342.6
65°	1183.4	1188.7	1202.2	1227.9	1257.6	1273.8	1300.7	1316.9	1315.6	1326.4	1314.2
67.5°	1133.4	1137.5	1149.6	1175.3	1203.6	1227.9	1236.0	1261.6	1264.3	1279.2	1265.7
70°	1051.1	1060.6	1078.1	1102.4	1125.3	1145.6	1160.4	1173.9	1182.0	1184.7	1182.0
72.5°	948.6	963.4	976.9	999.8	1022.8	1036.3	1045.7	1064.6	1070.0	1078.1	1075.4
75°	843.3	843.3	856.8	874.4	891.9	900.0	905.4	917.5	924.3	933.7	925.6
77.5°	698.9	707.0	719.2	734.0	731.3	735.4	735.4	742.1	739.4	746.2	751.6
80°	547.8	555.9	566.7	577.5	576.2	566.7	573.5	565.4	562.7	564.0	568.1
82.5°	391.3	396.7	406.1	412.9	412.9	406.1	408.8	400.7	403.4	396.7	402.1
85°	224.0	230.7	237.5	244.2	244.2	240.2	244.2	233.4	234.8	234.8	234.8
87.5°	55.3	60.7	63.4	67.5	64.8	71.5	75.6	68.8	70.2	67.5	71.5
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°	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1	1329.1
2.5°	1329.1	1327.7	1329.1	1329.1	1329.1	1329.1	1327.7	1327.7
5°	1329.1	1329.1	1329.1	1327.7	1327.7	1327.7	1327.7	1327.7
7.5°	1326.4	1326.4	1326.4	1325.0	1325.0	1325.0	1325.0	1325.0
10°	1323.7	1323.7	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
12.5°	1321.0	1321.0	1319.6	1319.6	1319.6	1319.6	1319.6	1318.3
15°	1318.3	1318.3	1316.9	1316.9	1315.6	1315.6	1314.2	1314.2
17.5°	1318.3	1316.9	1315.6	1314.2	1314.2	1312.9	1311.5	1311.5
20°	1322.3	1321.0	1319.6	1318.3	1316.9	1315.6	1315.6	1314.2
22.5°	1311.5	1310.2	1308.8	1308.8	1307.5	1307.5	1307.5	1306.1
25°	1298.0	1296.7	1296.7	1294.0	1294.0	1292.6	1292.6	1291.3
27.5°	1283.2	1281.9	1281.9	1280.5	1279.2	1277.8	1276.5	1276.5
30°	1268.4	1267.0	1267.0	1265.7	1263.0	1263.0	1261.6	1260.3
32.5°	1254.9	1254.9	1253.5	1250.8	1248.1	1246.8	1244.1	1244.1
35°	1250.8	1248.1	1245.4	1241.4	1237.3	1234.6	1233.3	1231.9
37.5°	1265.7	1261.6	1254.9	1250.8	1245.4	1240.0	1237.3	1234.6
40°	1291.3	1284.6	1277.8	1271.1	1263.0	1256.2	1250.8	1249.5
42.5°	1292.6	1288.6	1281.9	1273.8	1264.3	1256.2	1250.8	1249.5
45°	1288.6	1283.2	1275.1	1265.7	1258.9	1249.5	1245.4	1244.1
47.5°	1279.2	1273.8	1265.7	1252.2	1242.7	1236.0	1234.6	1234.6
50°	1284.6	1273.8	1260.3	1252.2	1242.7	1231.9	1227.9	1225.2
52.5°	1296.7	1285.9	1277.8	1260.3	1240.0	1230.6	1225.2	1221.1
55°	1335.8	1330.4	1306.1	1281.9	1267.0	1254.9	1249.5	1246.8
57.5°	1361.5	1342.6	1322.3	1306.1	1288.6	1268.4	1254.9	1248.1
60°	1348.0	1327.7	1318.3	1296.7	1260.3	1238.7	1230.6	1226.5
62.5°	1318.3	1318.3	1292.6	1258.9	1245.4	1226.5	1211.7	1206.3
65°	1316.9	1299.4	1273.8	1261.6	1229.2	1200.9	1186.0	1183.4
67.5°	1260.3	1236.0	1229.2	1202.2	1175.3	1149.6	1138.8	1133.4
70°	1173.9	1165.8	1145.6	1128.0	1103.7	1076.8	1061.9	1056.5
72.5°	1064.6	1051.1	1041.7	1026.8	1003.9	970.2	958.0	951.3
75°	916.2	909.4	909.4	893.2	871.7	851.4	850.1	847.4
77.5°	736.7	739.4	746.2	728.6	735.4	724.6	715.1	708.4
80°	560.0	572.1	573.5	577.5	581.6	566.7	560.0	551.9
82.5°	398.0	404.8	412.9	414.2	416.9	406.1	400.7	392.7
85°	234.8	238.8	245.6	245.6	245.6	236.1	233.4	226.7
87.5°	68.8	68.8	72.9	68.8	68.8	68.8	62.1	66.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)