

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: P197693

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
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-CG-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6285.5 lumens
Efficiency: N/A
Efficacy: 81.6 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): 77
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

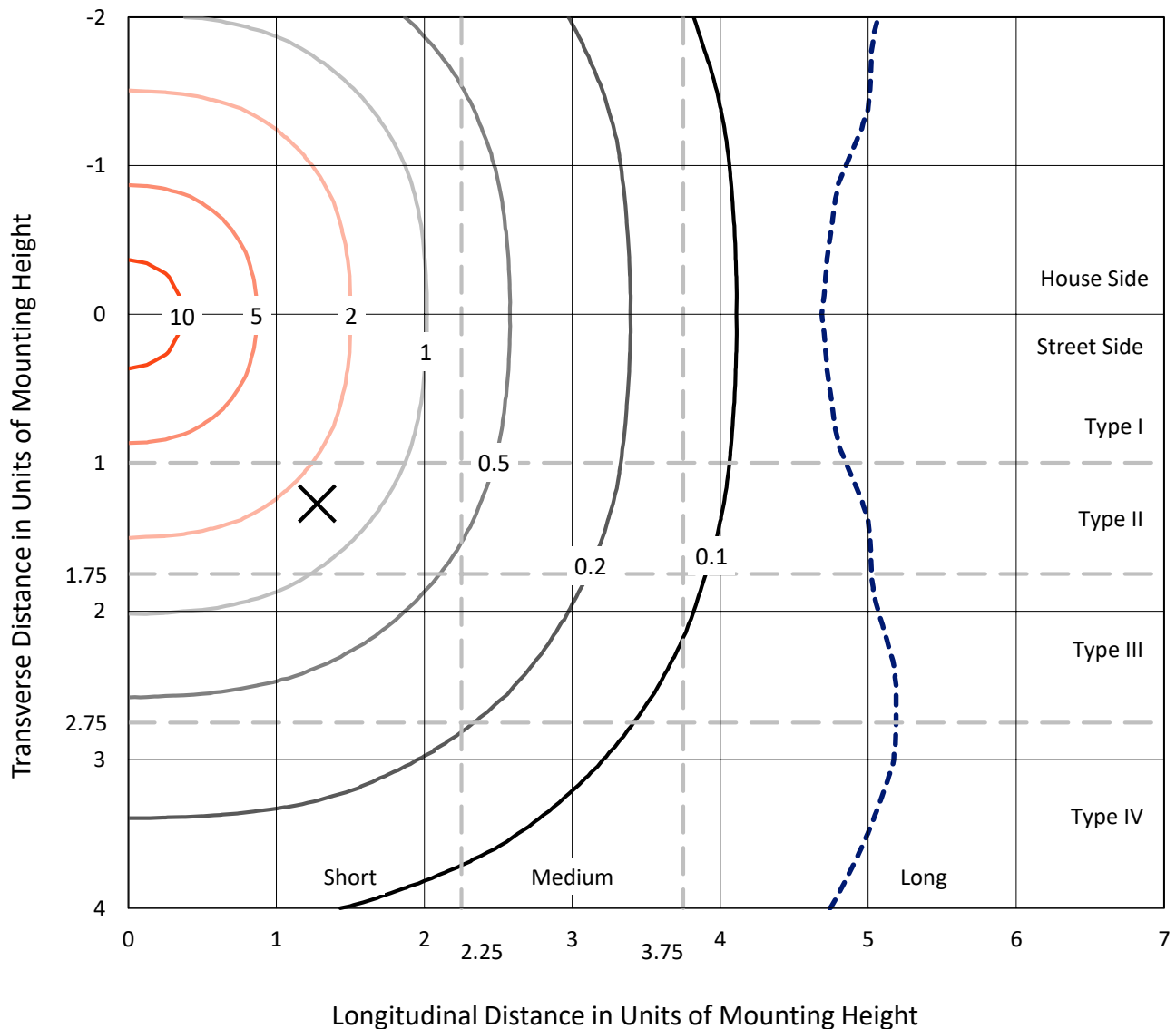


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

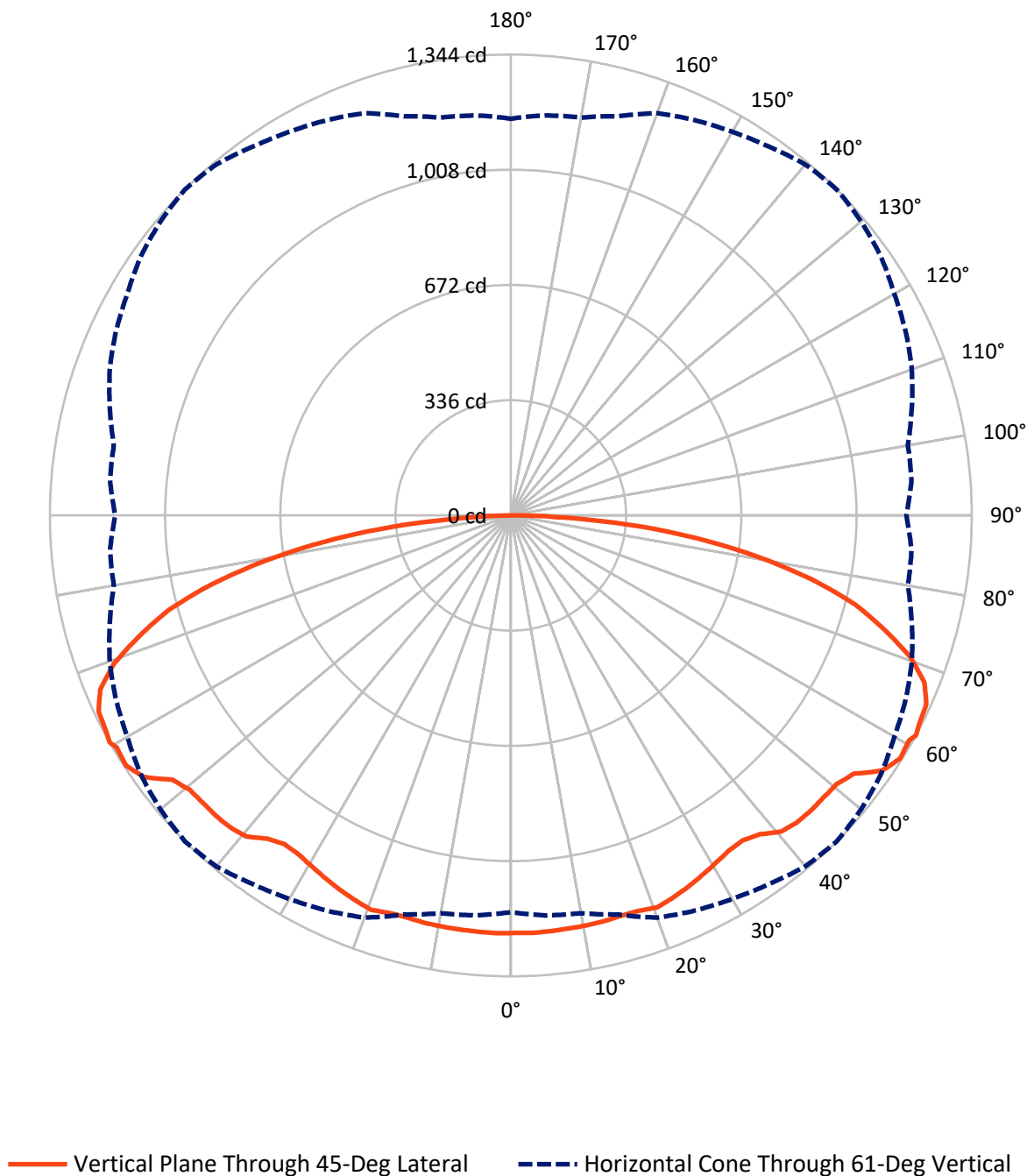


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.7	0.0	3142.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3142.7	0.0	3142.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6285.5	0.0	6285.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	1.8
10°-20°	343.5	5.5
20°-30°	552.6	8.8
30°-40°	732.1	11.6
40°-50°	924.5	14.7
50°-60°	1107.7	17.6
60°-70°	1211.2	19.3
70°-80°	969.6	15.4
80°-90°	328.0	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°	6285.5	100.0
0°-180°	6285.5	100.0

Coefficient of Utilization



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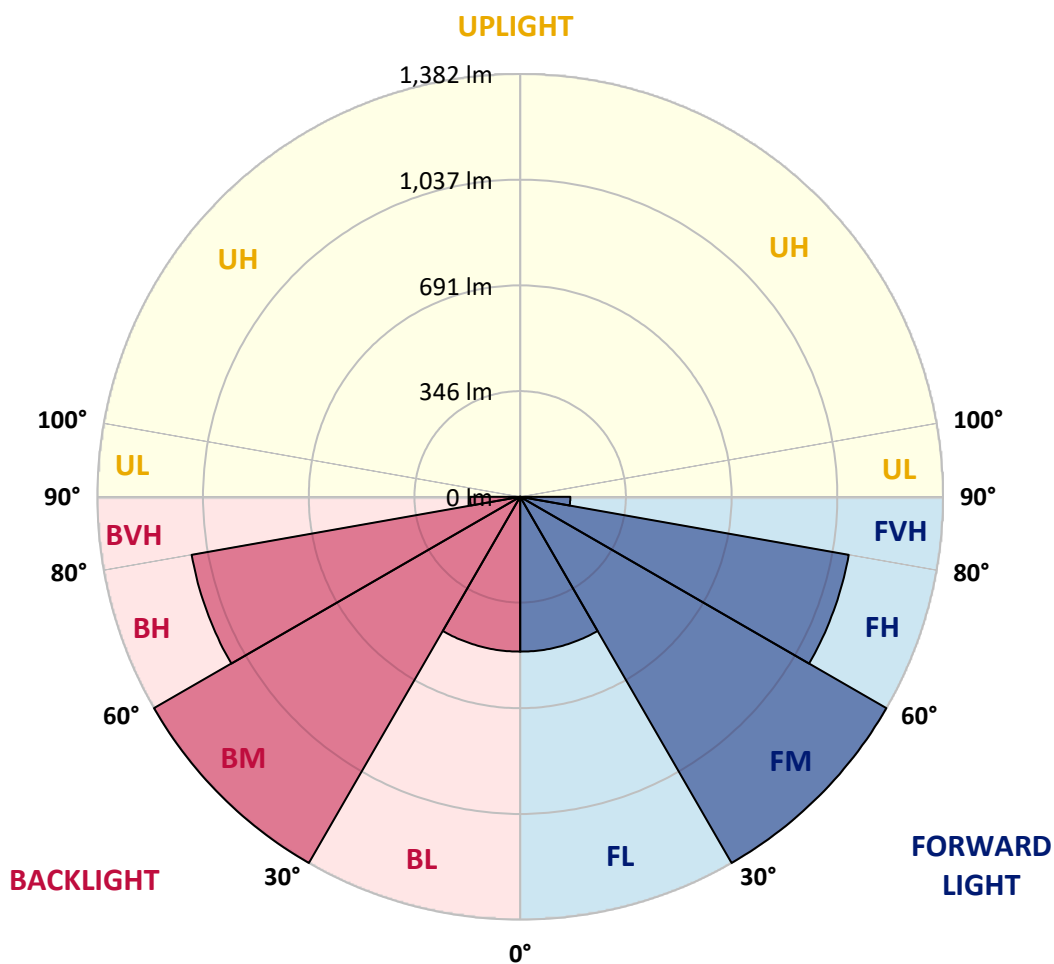
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.1	8.1			
FM	(30°-60°)	1382.2	22.0			
FH	(60°-80°)	1090.4	17.3			G1/1800
FVH	(80°-90°)	164.0	2.6			G2/225
BL	(0°-30°)	506.1	8.1	B2/1000		
BM	(30°-60°)	1382.2	22.0	B2/2500		
BH	(60°-80°)	1090.4	17.3	B3/2500		G1/1800
BVH	(80°-90°)	164.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1219.0	1217.8	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
5°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
7.5°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1217.8	1216.5	1217.8
10°	1214.3	1214.3	1214.3	1214.3	1215.5	1215.5	1215.5	1215.5	1215.5	1215.5	1215.5
12.5°	1212.0	1212.0	1212.0	1212.0	1213.0	1213.0	1213.0	1213.0	1214.3	1214.3	1213.0
15°	1209.5	1208.5	1208.5	1209.5	1209.5	1210.7	1210.7	1210.7	1212.0	1210.7	1210.7
17.5°	1207.2	1206.0	1207.2	1208.5	1208.5	1209.5	1210.7	1210.7	1212.0	1212.0	1212.0
20°	1210.7	1209.5	1210.7	1212.0	1213.0	1215.5	1216.5	1217.8	1219.0	1220.2	1220.2
22.5°	1203.7	1202.5	1203.7	1203.7	1204.9	1206.0	1208.5	1209.5	1210.7	1210.7	1210.7
25°	1193.2	1193.2	1194.4	1194.4	1195.5	1196.7	1197.9	1199.0	1199.0	1200.2	1199.0
27.5°	1181.5	1181.5	1182.7	1182.7	1185.0	1185.0	1186.2	1187.4	1188.5	1188.5	1188.5
30°	1167.4	1167.4	1168.6	1169.7	1172.2	1173.2	1174.4	1175.7	1176.7	1176.7	1176.7
32.5°	1154.6	1153.4	1154.6	1156.9	1160.4	1162.7	1165.1	1166.2	1166.2	1166.2	1167.4
35°	1144.0	1145.2	1147.5	1149.9	1154.6	1156.9	1159.2	1162.7	1163.9	1163.9	1163.9
37.5°	1146.4	1147.5	1151.1	1155.7	1161.6	1168.6	1173.2	1178.0	1181.5	1180.2	1179.2
40°	1161.6	1163.9	1169.7	1176.7	1186.2	1195.5	1202.5	1208.5	1212.0	1213.0	1212.0
42.5°	1163.9	1166.2	1170.9	1181.5	1192.0	1202.5	1212.0	1217.8	1222.5	1223.7	1222.5
45°	1162.7	1162.7	1169.7	1181.5	1192.0	1202.5	1214.3	1222.5	1227.2	1227.2	1227.2
47.5°	1154.6	1158.1	1162.7	1174.4	1188.5	1199.0	1210.7	1219.0	1224.8	1228.3	1224.8
50°	1154.6	1154.6	1162.7	1170.9	1183.8	1202.5	1219.0	1227.2	1233.0	1231.8	1233.0
52.5°	1152.2	1159.2	1163.9	1175.7	1199.0	1217.8	1230.7	1242.3	1250.5	1251.8	1249.3
55°	1173.2	1174.4	1185.0	1207.2	1229.5	1250.5	1274.0	1291.6	1305.6	1313.8	1302.1
57.5°	1189.7	1183.8	1204.9	1223.7	1249.3	1281.0	1316.1	1330.2	1340.7	1338.4	1341.9
60°	1167.4	1175.7	1190.9	1210.7	1251.8	1283.3	1302.1	1317.3	1330.2	1333.7	1329.1
61°	1156.9	1170.9	1178.0	1204.9	1248.3	1271.6	1291.6	1312.6	1336.1	1344.2	1333.7
62.5°	1139.4	1161.6	1159.2	1202.5	1229.5	1256.5	1293.9	1318.4	1334.9	1337.2	1334.9
65°	1140.4	1136.9	1163.9	1195.5	1222.5	1270.5	1302.1	1317.3	1326.7	1331.4	1329.1
67.5°	1103.1	1091.3	1124.1	1146.4	1192.0	1229.5	1260.0	1282.1	1296.3	1300.9	1295.1
70°	1016.4	1024.5	1048.0	1082.0	1119.4	1165.1	1193.2	1222.5	1234.2	1235.3	1235.3
72.5°	933.2	937.9	961.4	993.0	1036.3	1076.1	1104.1	1127.6	1138.2	1139.4	1141.7
75°	823.2	827.8	854.8	884.1	927.4	961.4	981.2	1009.3	1024.5	1037.5	1027.0
77.5°	695.6	703.7	724.9	756.4	796.2	815.0	850.1	882.9	893.4	896.9	893.4
80°	551.5	562.0	580.7	623.0	640.5	671.0	704.9	718.9	728.4	730.7	731.9
82.5°	397.0	405.2	425.0	454.3	474.3	498.8	522.2	539.9	550.4	548.0	546.9
85°	234.2	236.5	257.6	277.6	292.8	307.9	326.7	339.6	341.9	346.6	345.4
87.5°	70.3	71.4	80.8	91.3	98.4	105.4	117.1	132.4	135.9	126.4	127.6
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1217.8	1219.0
5°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
7.5°	1217.8	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
10°	1215.5	1215.5	1215.5	1215.5	1214.3	1214.3	1214.3	1214.3
12.5°	1213.0	1213.0	1213.0	1213.0	1212.0	1212.0	1212.0	1212.0
15°	1210.7	1210.7	1210.7	1210.7	1209.5	1209.5	1209.5	1209.5
17.5°	1212.0	1210.7	1209.5	1209.5	1208.5	1207.2	1207.2	1207.2
20°	1219.0	1217.8	1215.5	1213.0	1212.0	1210.7	1210.7	1210.7
22.5°	1209.5	1208.5	1206.0	1204.9	1204.9	1203.7	1202.5	1202.5
25°	1199.0	1196.7	1196.7	1195.5	1195.5	1193.2	1193.2	1192.0
27.5°	1187.4	1186.2	1185.0	1183.8	1183.8	1182.7	1181.5	1180.2
30°	1176.7	1174.4	1172.2	1170.9	1169.7	1168.6	1168.6	1168.6
32.5°	1166.2	1163.9	1162.7	1159.2	1156.9	1155.7	1154.6	1154.6
35°	1162.7	1159.2	1156.9	1153.4	1149.9	1147.5	1146.4	1144.0
37.5°	1176.7	1172.2	1168.6	1162.7	1154.6	1151.1	1147.5	1146.4
40°	1207.2	1202.5	1195.5	1186.2	1176.7	1169.7	1163.9	1161.6
42.5°	1217.8	1212.0	1202.5	1193.2	1181.5	1170.9	1166.2	1163.9
45°	1221.3	1215.5	1202.5	1190.9	1180.2	1170.9	1163.9	1161.6
47.5°	1217.8	1209.5	1197.9	1188.5	1173.2	1161.6	1156.9	1153.4
50°	1226.0	1219.0	1203.7	1182.7	1169.7	1162.7	1154.6	1153.4
52.5°	1242.3	1229.5	1215.5	1200.2	1175.7	1161.6	1156.9	1151.1
55°	1291.6	1274.0	1249.3	1224.8	1209.5	1187.4	1173.2	1173.2
57.5°	1329.1	1314.9	1283.3	1250.5	1222.5	1206.0	1185.0	1186.2
60°	1318.4	1299.8	1284.6	1251.8	1212.0	1189.7	1181.5	1166.2
61°	1317.3	1291.6	1270.5	1244.7	1210.7	1175.7	1173.2	1153.4
62.5°	1319.6	1296.3	1256.5	1229.5	1203.7	1158.1	1156.9	1138.2
65°	1317.3	1295.1	1275.1	1224.8	1189.7	1170.9	1131.1	1146.4
67.5°	1281.0	1261.1	1224.8	1196.7	1142.9	1119.4	1097.1	1097.1
70°	1223.7	1194.4	1159.2	1124.1	1087.8	1048.0	1028.0	1016.4
72.5°	1127.6	1103.1	1074.9	1037.5	993.0	956.7	937.9	929.7
75°	1007.0	980.1	955.5	927.4	880.6	850.1	830.2	824.3
77.5°	880.6	857.1	813.8	786.9	755.2	720.1	702.6	695.6
80°	718.9	706.1	675.6	632.3	617.0	573.7	562.0	551.5
82.5°	539.9	525.7	497.6	467.3	448.5	423.8	402.8	400.5
85°	339.6	330.2	312.6	290.4	267.0	252.9	234.2	238.8
87.5°	126.4	120.6	110.1	96.1	85.4	76.1	66.8	70.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)