

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: P197715

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197715
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-MQ-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.5 lumens
Efficiency: N/A
Efficacy: 112.4 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



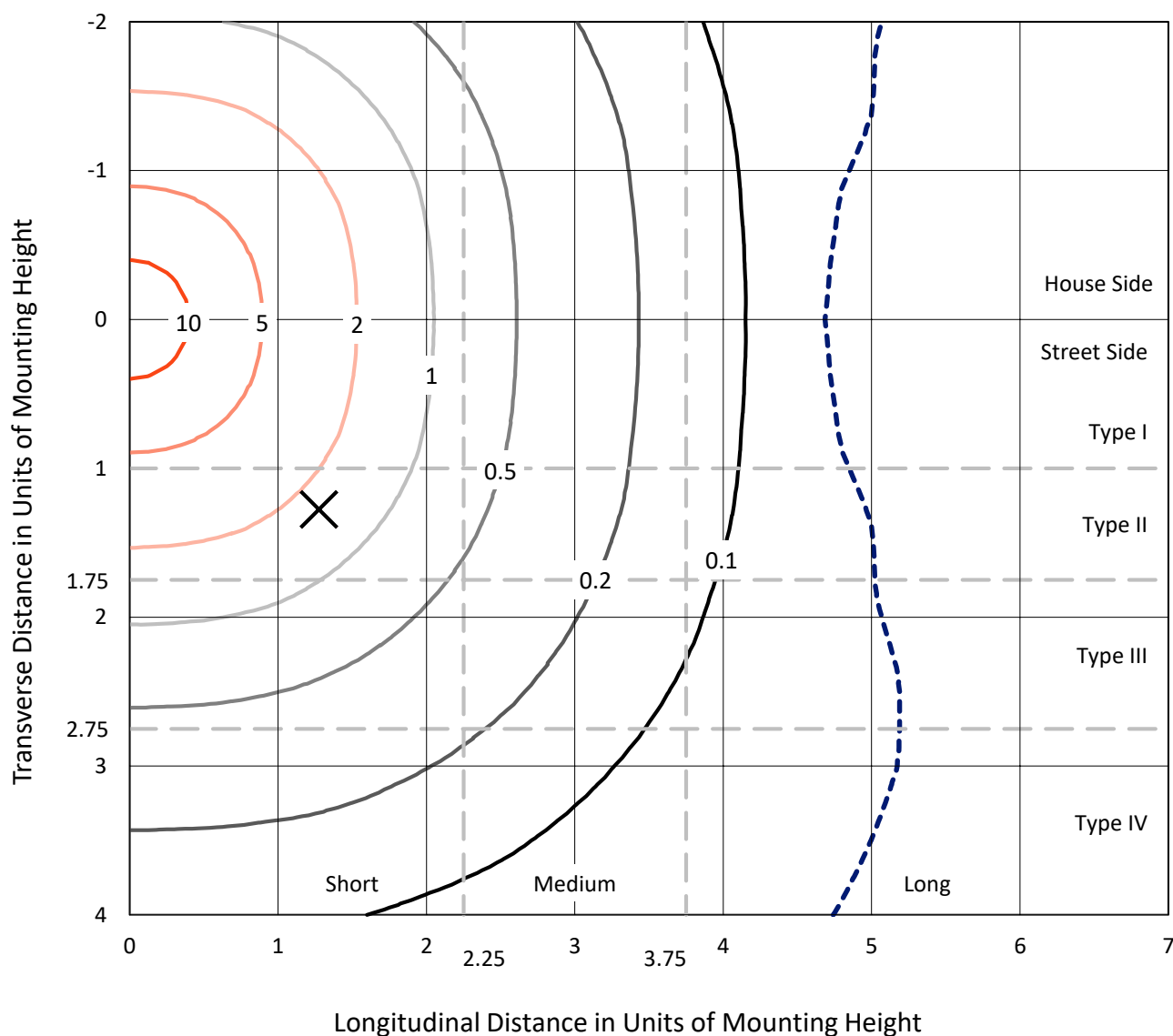
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

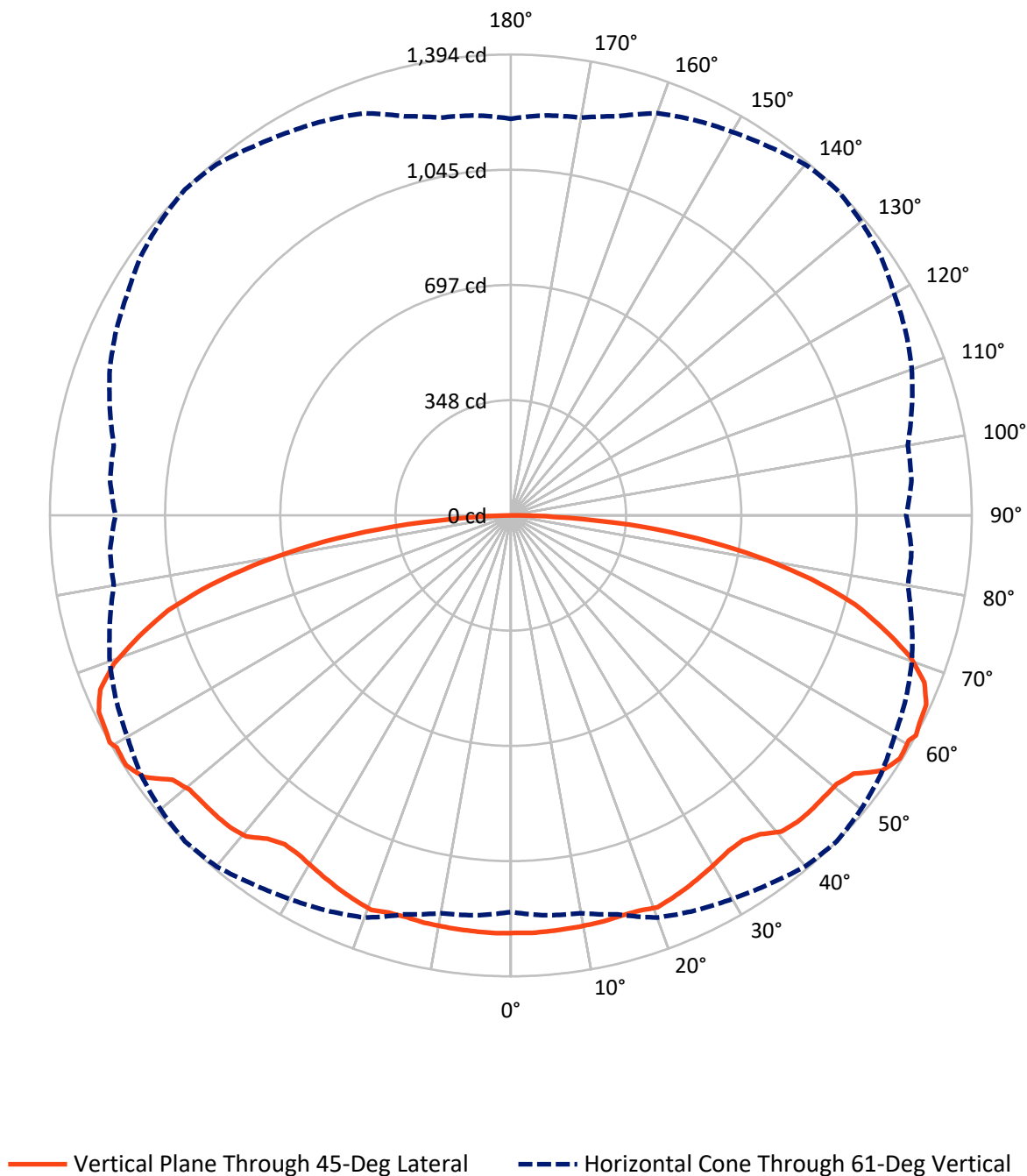


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3258.7	0.0	3258.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3258.7	0.0	3258.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6517.5	0.0	6517.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.8
10°-20°	356.1	5.5
20°-30°	573.0	8.8
30°-40°	759.1	11.6
40°-50°	958.6	14.7
50°-60°	1148.6	17.6
60°-70°	1255.9	19.3
70°-80°	1005.4	15.4
80°-90°	340.2	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°	6517.5	100.0
0°-180°	6517.5	100.0

Coefficient of Utilization



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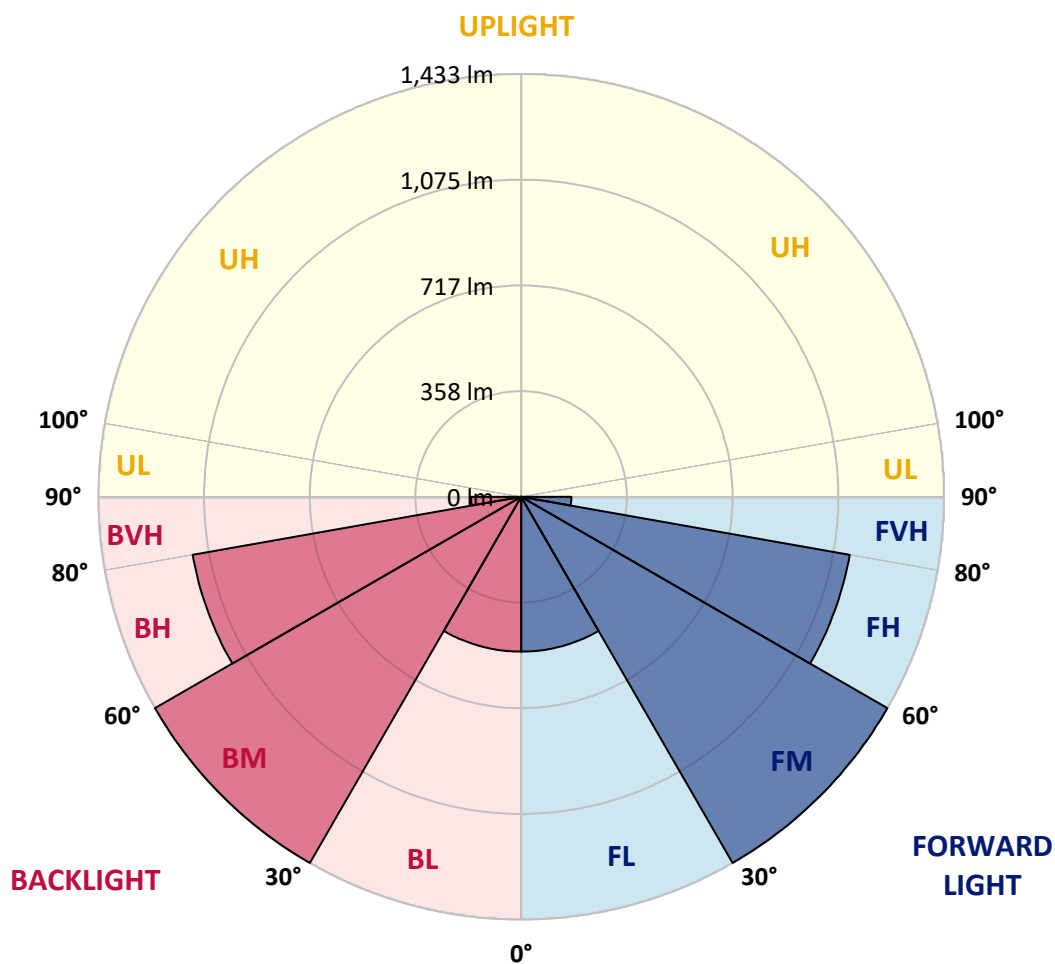
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.8	8.1			
FM	(30°-60°)	1433.2	22.0			
FH	(60°-80°)	1130.7	17.3			G1/1800
FVH	(80°-90°)	170.1	2.6			G2/225
BL	(0°-30°)	524.8	8.1	B2/1000		
BM	(30°-60°)	1433.2	22.0	B2/2500		
BH	(60°-80°)	1130.7	17.3	B3/2500		G1/1800
BVH	(80°-90°)	170.1	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°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1263.9	1262.7	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
5°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
7.5°	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1262.7	1261.5	1262.7
10°	1259.1	1259.1	1259.1	1259.1	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2
12.5°	1256.7	1256.7	1256.7	1256.7	1257.9	1257.9	1257.9	1257.9	1259.1	1259.1	1257.9
15°	1254.2	1253.0	1253.0	1254.2	1254.2	1255.4	1255.4	1255.4	1256.7	1255.4	1255.4
17.5°	1251.7	1250.5	1251.7	1253.0	1253.0	1254.2	1255.4	1255.4	1256.7	1256.7	1256.7
20°	1255.4	1254.2	1255.4	1256.7	1257.9	1260.2	1261.5	1262.7	1263.9	1265.2	1265.2
22.5°	1248.2	1247.0	1248.2	1248.2	1249.4	1250.5	1253.0	1254.2	1255.4	1255.4	1255.4
25°	1237.2	1237.2	1238.5	1238.5	1239.7	1240.8	1242.0	1243.3	1243.3	1244.5	1243.3
27.5°	1225.1	1225.1	1226.3	1226.3	1228.8	1228.8	1230.0	1231.1	1232.3	1232.3	1232.3
30°	1210.6	1210.6	1211.7	1212.9	1215.4	1216.6	1217.8	1219.1	1220.3	1220.3	1220.3
32.5°	1197.2	1195.9	1197.2	1199.6	1203.2	1205.6	1208.1	1209.3	1209.3	1209.3	1210.6
35°	1186.2	1187.5	1189.9	1192.2	1197.2	1199.6	1202.0	1205.6	1206.9	1206.9	1206.9
37.5°	1188.7	1189.9	1193.5	1198.4	1204.4	1211.7	1216.6	1221.4	1225.1	1223.8	1222.6
40°	1204.4	1206.9	1212.9	1220.3	1230.0	1239.7	1247.0	1253.0	1256.7	1257.9	1256.7
42.5°	1206.9	1209.3	1214.1	1225.1	1236.0	1247.0	1256.7	1262.7	1267.6	1268.8	1267.6
45°	1205.6	1205.6	1212.9	1225.1	1236.0	1247.0	1259.1	1267.6	1272.4	1272.4	1272.4
47.5°	1197.2	1200.9	1205.6	1217.8	1232.3	1243.3	1255.4	1263.9	1269.9	1273.6	1269.9
50°	1197.2	1197.2	1205.6	1214.1	1227.5	1247.0	1263.9	1272.4	1278.6	1277.3	1278.6
52.5°	1194.7	1202.0	1206.9	1219.1	1243.3	1262.7	1276.1	1288.3	1296.7	1298.0	1295.5
55°	1216.6	1217.8	1228.8	1251.7	1274.9	1296.7	1321.0	1339.2	1353.8	1362.3	1350.1
57.5°	1233.6	1227.5	1249.4	1268.8	1295.5	1328.3	1364.7	1379.2	1390.2	1387.7	1391.4
60°	1210.6	1219.1	1234.8	1255.4	1298.0	1330.7	1350.1	1366.0	1379.2	1382.9	1378.0
61°	1199.6	1214.1	1221.4	1249.4	1294.3	1318.6	1339.2	1361.0	1385.4	1393.9	1382.9
62.5°	1181.4	1204.4	1202.0	1247.0	1274.9	1302.8	1341.6	1367.2	1384.2	1386.6	1384.2
65°	1182.5	1179.0	1206.9	1239.7	1267.6	1317.4	1350.1	1366.0	1375.7	1380.5	1378.0
67.5°	1143.7	1131.6	1165.6	1188.7	1236.0	1274.9	1306.5	1329.4	1344.1	1348.9	1342.8
70°	1054.0	1062.4	1086.6	1121.9	1160.8	1208.1	1237.2	1267.6	1279.7	1280.9	1280.9
72.5°	967.6	972.6	996.8	1029.6	1074.5	1115.8	1144.9	1169.3	1180.2	1181.4	1183.8
75°	853.6	858.3	886.4	916.8	961.6	996.8	1017.4	1046.6	1062.4	1075.7	1064.8
77.5°	721.1	729.8	751.5	784.3	825.7	845.1	881.5	915.5	926.5	930.0	926.5
80°	571.9	582.9	602.3	645.9	664.1	695.7	730.9	745.5	755.2	757.7	758.9
82.5°	411.6	420.1	440.7	471.1	491.8	517.2	541.5	559.7	570.7	568.2	567.0
85°	242.8	245.3	267.1	287.8	303.5	319.3	338.7	352.1	354.6	359.3	358.1
87.5°	72.9	74.0	83.7	94.7	102.0	109.3	121.5	137.2	140.9	131.2	132.4
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°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1262.7	1263.9
5°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
7.5°	1262.7	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5
10°	1260.2	1260.2	1260.2	1260.2	1259.1	1259.1	1259.1	1259.1
12.5°	1257.9	1257.9	1257.9	1257.9	1256.7	1256.7	1256.7	1256.7
15°	1255.4	1255.4	1255.4	1255.4	1254.2	1254.2	1254.2	1254.2
17.5°	1256.7	1255.4	1254.2	1254.2	1253.0	1251.7	1251.7	1251.7
20°	1263.9	1262.7	1260.2	1257.9	1256.7	1255.4	1255.4	1255.4
22.5°	1254.2	1253.0	1250.5	1249.4	1249.4	1248.2	1247.0	1247.0
25°	1243.3	1240.8	1240.8	1239.7	1239.7	1237.2	1237.2	1236.0
27.5°	1231.1	1230.0	1228.8	1227.5	1227.5	1226.3	1225.1	1223.8
30°	1220.3	1217.8	1215.4	1214.1	1212.9	1211.7	1211.7	1211.7
32.5°	1209.3	1206.9	1205.6	1202.0	1199.6	1198.4	1197.2	1197.2
35°	1205.6	1202.0	1199.6	1195.9	1192.2	1189.9	1188.7	1186.2
37.5°	1220.3	1215.4	1211.7	1205.6	1197.2	1193.5	1189.9	1188.7
40°	1251.7	1247.0	1239.7	1230.0	1220.3	1212.9	1206.9	1204.4
42.5°	1262.7	1256.7	1247.0	1237.2	1225.1	1214.1	1209.3	1206.9
45°	1266.4	1260.2	1247.0	1234.8	1223.8	1214.1	1206.9	1204.4
47.5°	1262.7	1254.2	1242.0	1232.3	1216.6	1204.4	1199.6	1195.9
50°	1271.2	1263.9	1248.2	1226.3	1212.9	1205.6	1197.2	1195.9
52.5°	1288.3	1274.9	1260.2	1244.5	1219.1	1204.4	1199.6	1193.5
55°	1339.2	1321.0	1295.5	1269.9	1254.2	1231.1	1216.6	1216.6
57.5°	1378.0	1363.5	1330.7	1296.7	1267.6	1250.5	1228.8	1230.0
60°	1367.2	1347.8	1331.9	1298.0	1256.7	1233.6	1225.1	1209.3
61°	1366.0	1339.2	1317.4	1290.6	1255.4	1219.1	1216.6	1195.9
62.5°	1368.3	1344.1	1302.8	1274.9	1248.2	1200.9	1199.6	1180.2
65°	1366.0	1342.8	1322.2	1269.9	1233.6	1214.1	1172.8	1188.7
67.5°	1328.3	1307.7	1269.9	1240.8	1185.0	1160.8	1137.7	1137.7
70°	1268.8	1238.5	1202.0	1165.6	1128.0	1086.6	1066.0	1054.0
72.5°	1169.3	1143.7	1114.5	1075.7	1029.6	992.0	972.6	964.1
75°	1044.2	1016.2	990.8	961.6	913.1	881.5	860.8	854.8
77.5°	913.1	888.7	843.8	815.9	783.1	746.7	728.5	721.1
80°	745.5	732.1	700.6	655.6	639.9	594.9	582.9	571.9
82.5°	559.7	545.1	516.0	484.5	465.1	439.5	417.6	415.3
85°	352.1	342.4	324.2	301.1	276.9	262.2	242.8	247.7
87.5°	131.2	125.0	114.1	99.6	88.6	78.9	69.2	72.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)