

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: P197928

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-WQ-SG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5062.3 lumens
Efficiency: N/A
Efficacy: 112.5 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): 45
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

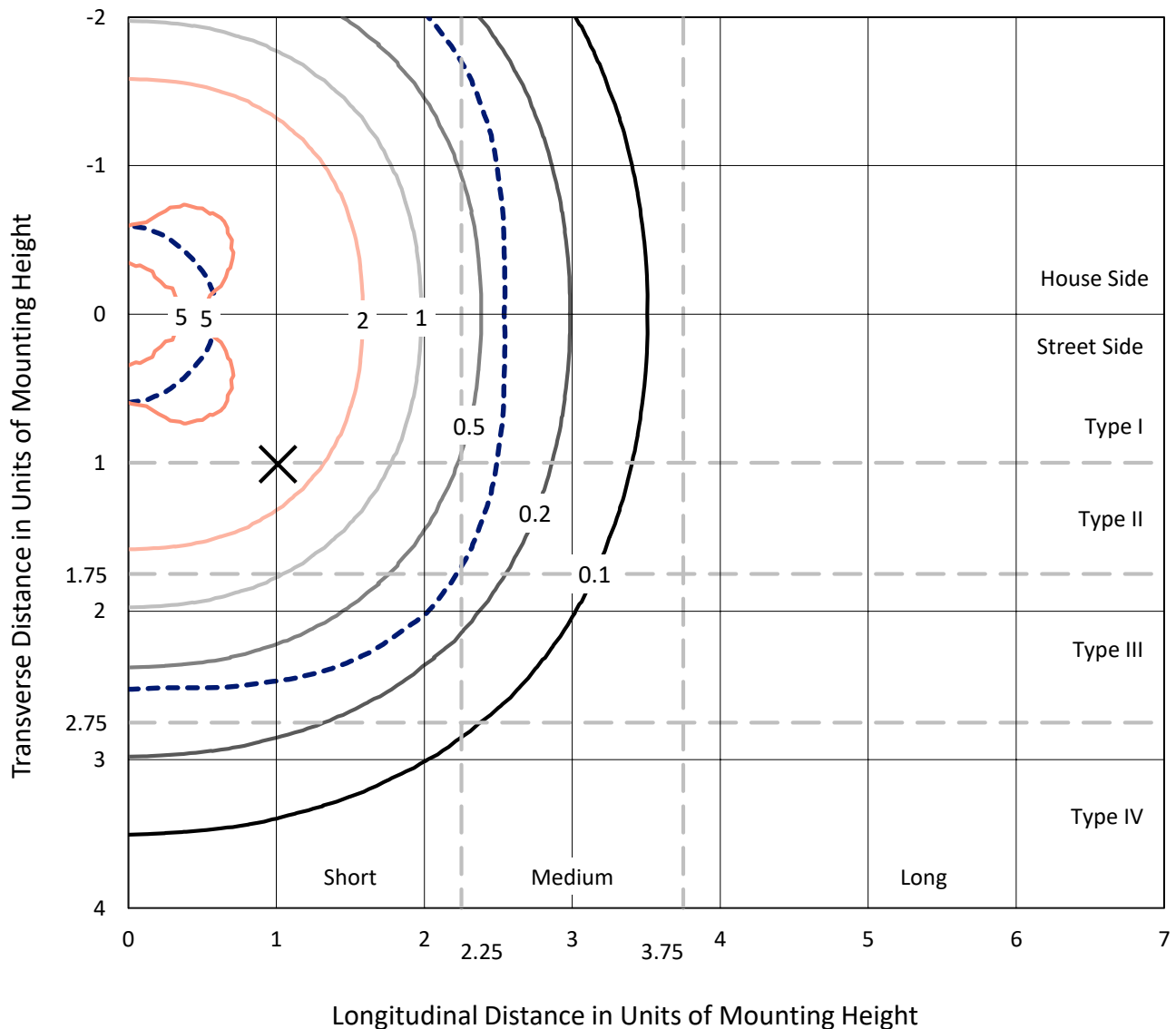


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

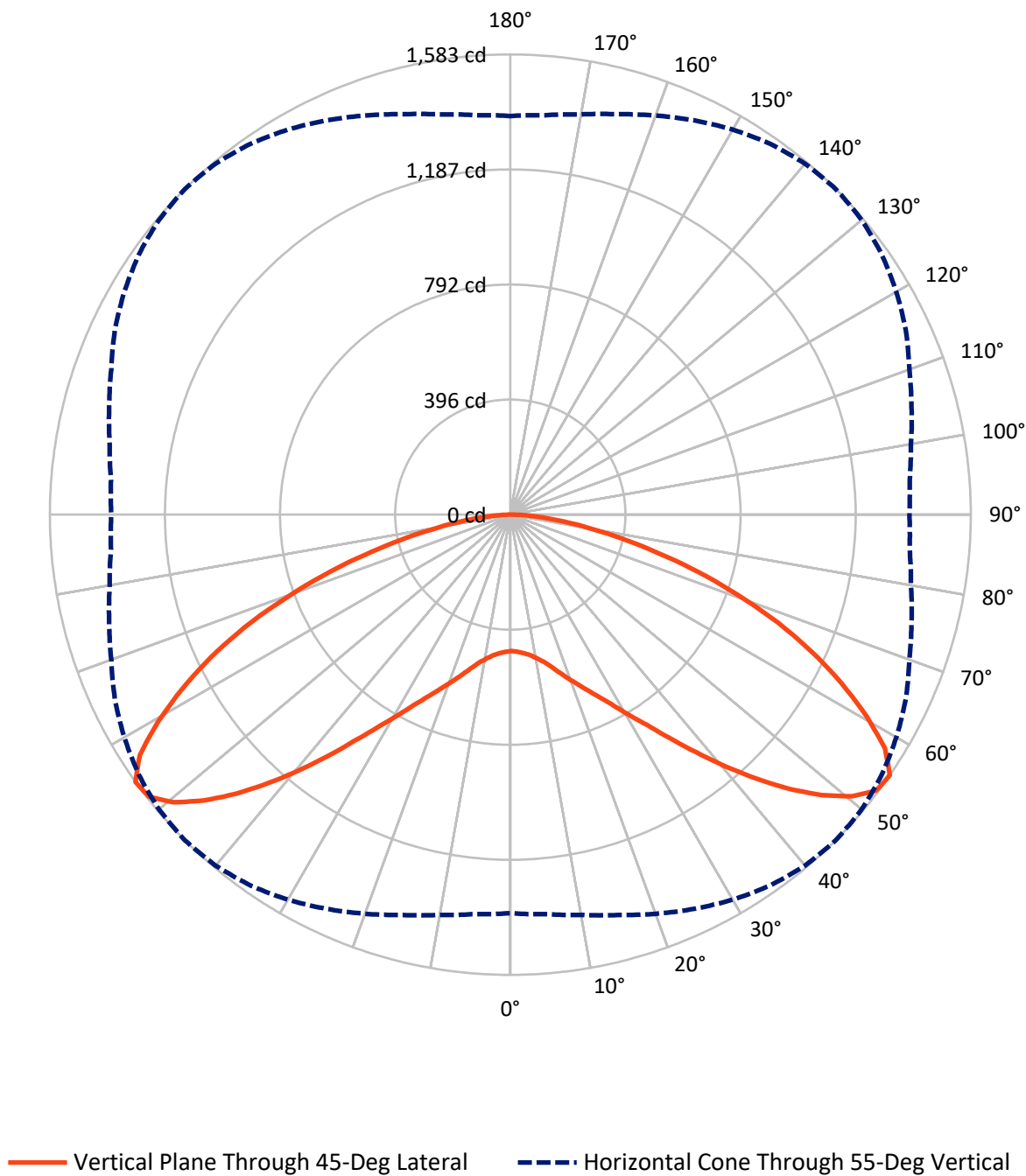


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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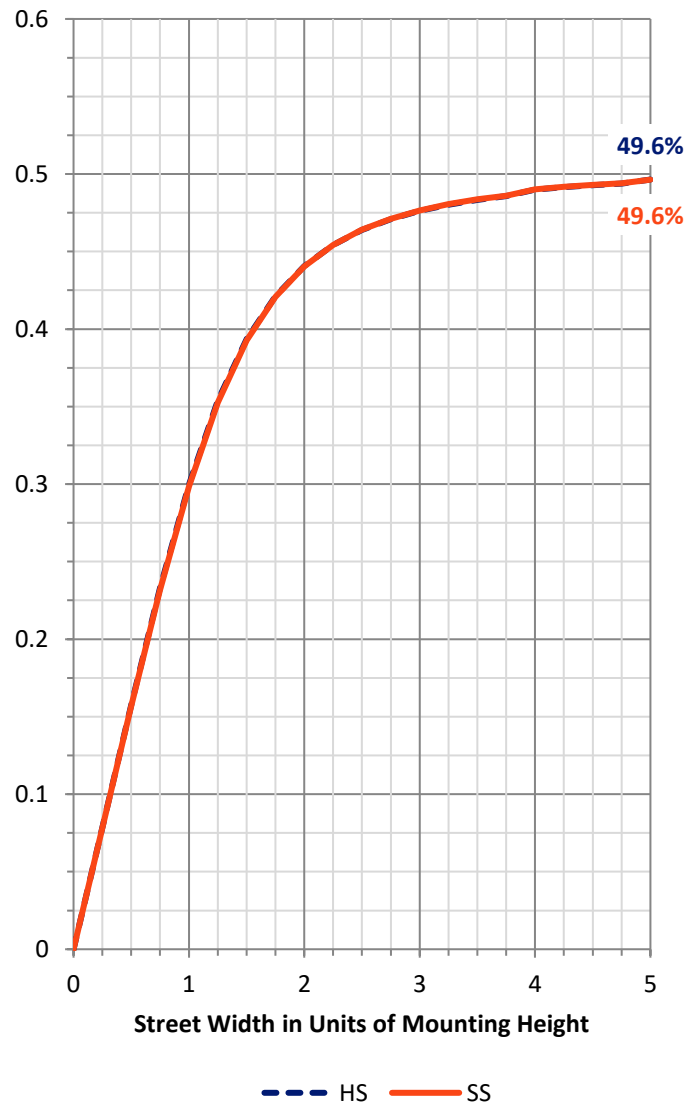
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.1	0.0	2531.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2531.1	0.0	2531.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5062.3	0.0	5062.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	0.9
10°-20°	157.1	3.1
20°-30°	320.0	6.3
30°-40°	584.4	11.5
40°-50°	992.3	19.6
50°-60°	1292.3	25.5
60°-70°	1045.1	20.6
70°-80°	513.6	10.1
80°-90°	111.2	2.2
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°	5062.3	100.0
0°-180°	5062.3	100.0

Coefficient of Utilization



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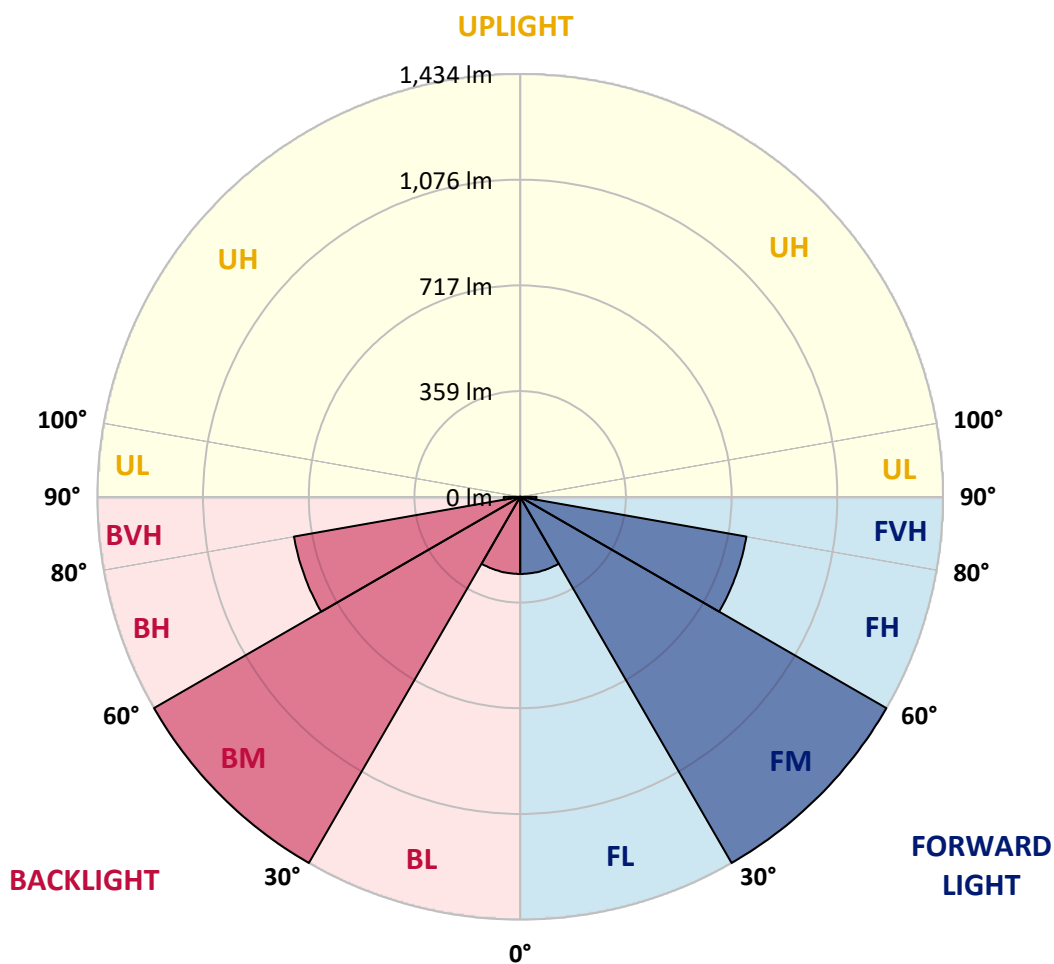
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.7	5.2			
FM	(30°-60°)	1434.5	28.3			
FH	(60°-80°)	779.4	15.4			G1/1800
FVH	(80°-90°)	55.6	1.1			G1/100
BL	(0°-30°)	261.7	5.2	B1/500		
BM	(30°-60°)	1434.5	28.3	B2/2500		
BH	(60°-80°)	779.4	15.4	B2/1000		G1/1800
BVH	(80°-90°)	55.6	1.1			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°	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1
2.5°	471.1	471.1	471.1	471.1	471.1	471.1	472.2	472.2	472.2	472.2	472.2
5°	477.3	477.3	477.3	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4
7.5°	486.7	485.6	486.7	486.7	486.7	487.7	487.7	486.7	487.7	487.7	487.7
10°	500.1	499.1	500.1	500.1	500.1	501.2	501.2	501.2	501.2	502.2	502.2
12.5°	519.8	518.8	519.8	520.8	519.8	520.8	520.8	520.8	520.8	520.8	520.8
15°	544.7	543.6	544.7	545.7	544.7	546.7	546.7	545.7	545.7	546.7	546.7
17.5°	574.7	572.6	573.6	574.7	574.7	576.8	576.8	575.7	576.8	577.8	576.8
20°	605.7	603.7	604.7	607.8	607.8	608.9	610.9	609.9	610.9	612.0	610.9
22.5°	639.9	638.9	639.9	643.0	643.0	644.1	647.2	647.2	647.2	648.2	647.2
25°	677.2	676.2	677.2	680.3	680.3	682.4	686.5	686.5	687.5	688.6	687.5
27.5°	720.7	719.6	721.7	724.8	725.9	729.0	734.1	735.2	736.2	737.3	735.2
30°	771.4	769.4	772.5	777.6	779.7	783.8	790.1	792.1	793.2	796.3	794.2
32.5°	829.4	827.3	831.5	837.7	840.8	847.0	855.3	857.4	860.5	862.5	859.4
35°	897.7	896.7	900.9	910.2	915.4	922.6	934.0	937.1	939.2	943.3	939.2
37.5°	973.3	972.3	979.6	989.9	999.2	1010.6	1023.0	1028.2	1031.3	1036.5	1031.3
40°	1057.2	1056.2	1065.5	1077.9	1089.3	1103.8	1119.3	1126.6	1132.8	1138.0	1131.8
42.5°	1143.2	1143.2	1154.5	1168.0	1184.6	1202.2	1219.8	1228.1	1238.4	1241.5	1234.3
45°	1226.0	1227.0	1238.4	1255.0	1278.8	1301.6	1321.3	1331.6	1343.0	1346.1	1336.8
47.5°	1304.7	1305.7	1316.1	1337.8	1364.7	1390.6	1414.4	1428.9	1440.3	1441.4	1434.1
50°	1368.9	1373.0	1386.5	1406.2	1434.1	1461.0	1490.0	1508.7	1520.1	1523.2	1515.9
52.5°	1393.7	1401.0	1416.5	1441.4	1473.5	1501.4	1533.5	1557.3	1570.8	1576.0	1569.8
55°	1371.0	1379.2	1397.9	1425.8	1461.0	1496.2	1529.4	1557.3	1576.0	1583.2	1577.0
57.5°	1320.2	1321.3	1339.9	1367.9	1400.0	1436.2	1468.3	1494.2	1511.8	1519.0	1518.0
60°	1232.2	1232.2	1249.8	1276.7	1301.6	1338.9	1365.8	1385.5	1397.9	1406.2	1404.1
62.5°	1114.2	1114.2	1129.7	1157.7	1182.5	1214.6	1240.5	1261.2	1269.5	1278.8	1280.9
65°	982.7	982.7	997.2	1025.1	1047.9	1076.9	1101.7	1121.4	1129.7	1141.1	1139.0
67.5°	842.9	841.8	855.3	879.1	900.9	927.8	951.6	970.2	979.6	993.0	983.7
70°	698.9	698.9	710.3	729.0	744.5	771.4	794.2	812.8	820.1	831.5	826.3
72.5°	562.3	561.2	570.5	585.0	597.5	621.3	634.7	655.4	661.7	677.2	668.9
75°	439.0	437.0	444.2	454.6	462.9	478.4	488.7	505.3	510.5	520.8	516.7
77.5°	330.3	329.3	332.4	339.6	345.8	358.3	362.4	370.7	374.8	385.2	376.9
80°	237.1	234.0	237.1	241.3	243.3	252.7	253.7	256.8	258.9	266.1	257.8
82.5°	159.5	155.3	157.4	160.5	160.5	165.7	166.7	165.7	169.8	171.9	167.7
85°	91.1	88.0	89.1	91.1	90.1	93.2	93.2	92.2	95.3	95.3	93.2
87.5°	30.0	28.0	29.0	30.0	30.0	31.1	32.1	31.1	33.1	33.1	31.1
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°	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1
2.5°	472.2	472.2	472.2	472.2	472.2	472.2	472.2	472.2
5°	478.4	478.4	478.4	478.4	478.4	477.3	477.3	477.3
7.5°	487.7	487.7	487.7	487.7	487.7	486.7	486.7	486.7
10°	502.2	501.2	501.2	501.2	501.2	500.1	501.2	500.1
12.5°	520.8	521.9	521.9	520.8	521.9	519.8	519.8	519.8
15°	546.7	545.7	545.7	545.7	545.7	544.7	544.7	544.7
17.5°	575.7	575.7	574.7	574.7	573.6	572.6	572.6	572.6
20°	609.9	608.9	607.8	606.8	605.7	603.7	602.6	602.6
22.5°	645.1	644.1	643.0	642.0	641.0	638.9	636.8	636.8
25°	684.4	682.4	681.3	679.3	677.2	675.1	674.1	673.1
27.5°	732.1	730.0	726.9	723.8	719.6	718.6	716.5	716.5
30°	789.0	785.9	781.8	776.6	772.5	768.3	766.2	765.2
32.5°	855.3	851.2	843.9	837.7	830.4	826.3	823.2	821.1
35°	933.0	926.7	918.5	909.1	899.8	892.6	887.4	887.4
37.5°	1024.1	1014.8	1002.3	990.9	977.5	969.2	963.0	958.8
40°	1123.5	1110.0	1094.5	1080.0	1064.5	1053.1	1043.7	1044.8
42.5°	1221.8	1210.5	1191.8	1174.2	1154.5	1139.0	1127.6	1126.6
45°	1325.4	1310.9	1288.1	1265.3	1242.6	1223.9	1210.5	1208.4
47.5°	1421.7	1406.2	1379.2	1351.3	1326.4	1305.7	1291.2	1289.2
50°	1500.4	1481.8	1453.8	1423.8	1396.8	1374.1	1358.5	1354.4
52.5°	1551.1	1530.4	1500.4	1464.1	1435.2	1409.3	1390.6	1385.5
55°	1559.4	1532.5	1500.4	1460.0	1427.9	1398.9	1378.2	1372.0
57.5°	1502.5	1473.5	1444.5	1409.3	1377.2	1346.1	1329.5	1321.3
60°	1391.7	1368.9	1345.1	1313.0	1287.1	1258.1	1244.6	1240.5
62.5°	1264.3	1244.6	1222.9	1189.8	1168.0	1142.1	1129.7	1124.5
65°	1127.6	1104.8	1084.1	1057.2	1033.4	1011.7	994.0	992.0
67.5°	976.4	952.6	935.0	911.2	887.4	866.7	855.3	849.1
70°	817.0	797.3	779.7	753.8	738.3	718.6	710.3	704.1
72.5°	658.6	647.2	625.4	608.9	591.3	575.7	570.5	564.3
75°	509.4	496.0	479.4	469.1	455.6	447.3	443.2	439.0
77.5°	373.8	362.4	353.1	349.0	342.7	334.5	331.3	328.2
80°	258.9	253.7	247.5	246.4	242.3	236.1	235.1	234.0
82.5°	167.7	164.6	162.6	162.6	160.5	156.4	155.3	155.3
85°	93.2	92.2	93.2	92.2	90.1	88.0	88.0	88.0
87.5°	31.1	31.1	32.1	33.1	30.0	30.0	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)