

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: P197927

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197927
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5179.8 lumens
Efficiency: N/A
Efficacy: 115.1 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

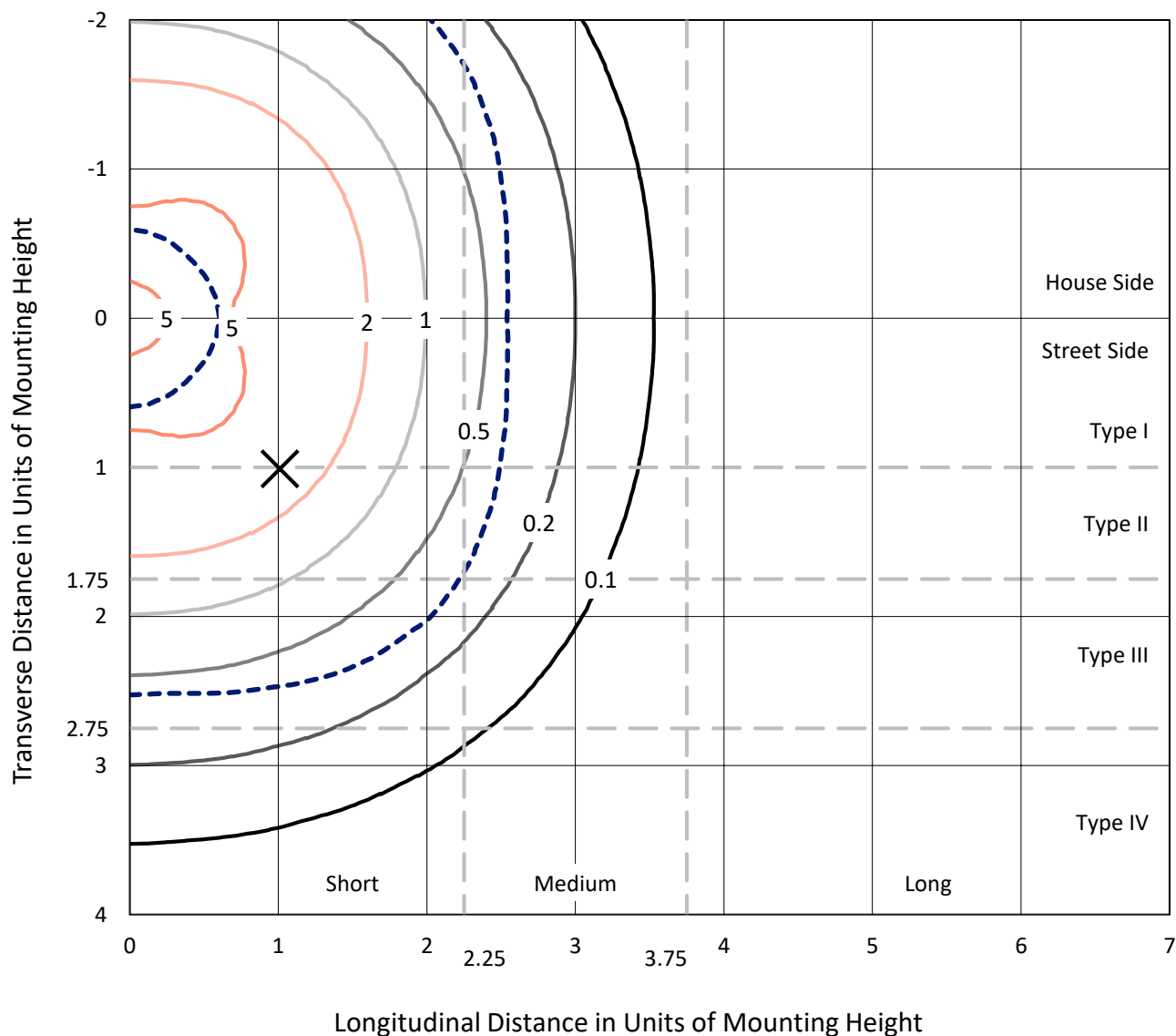


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

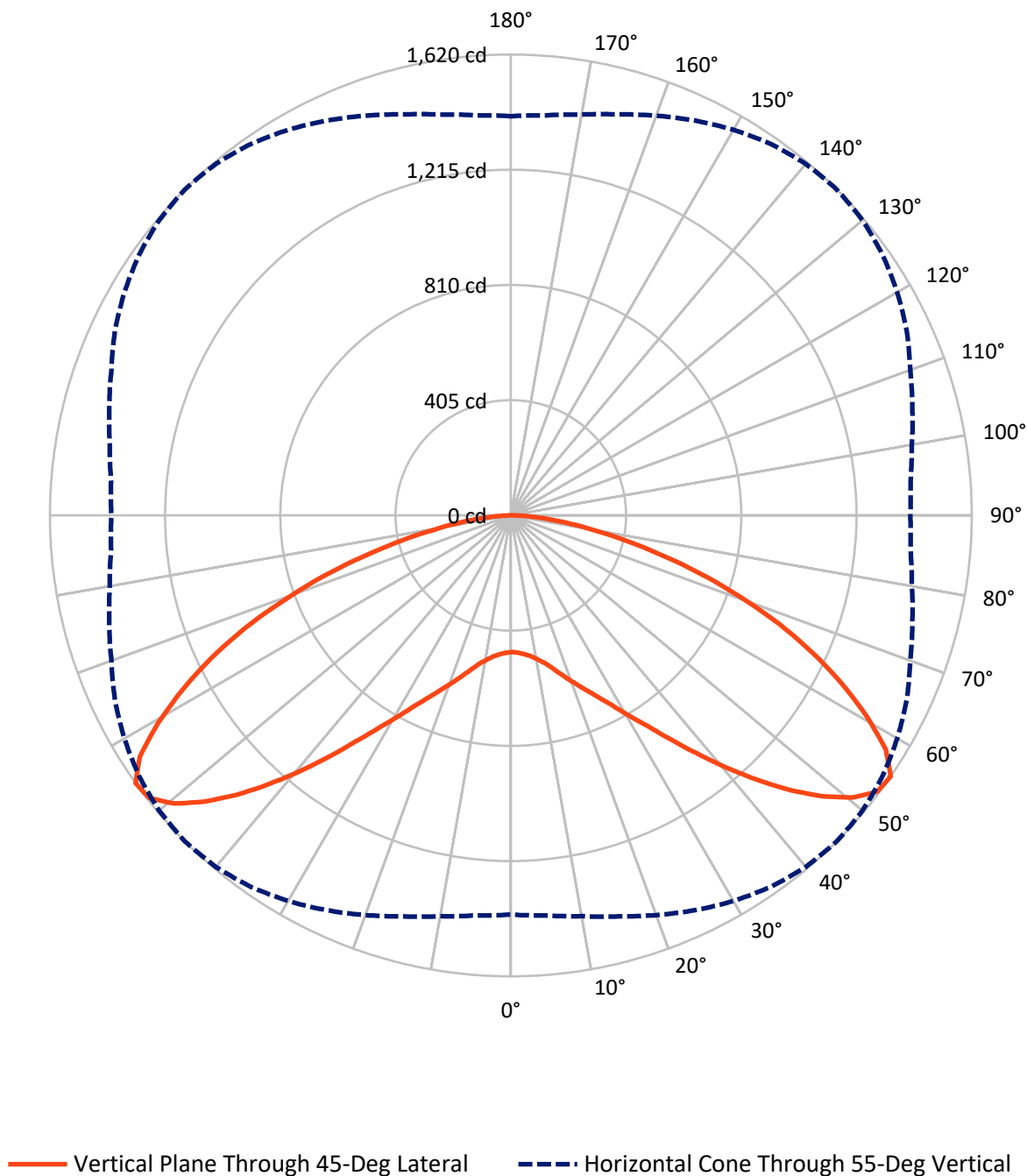


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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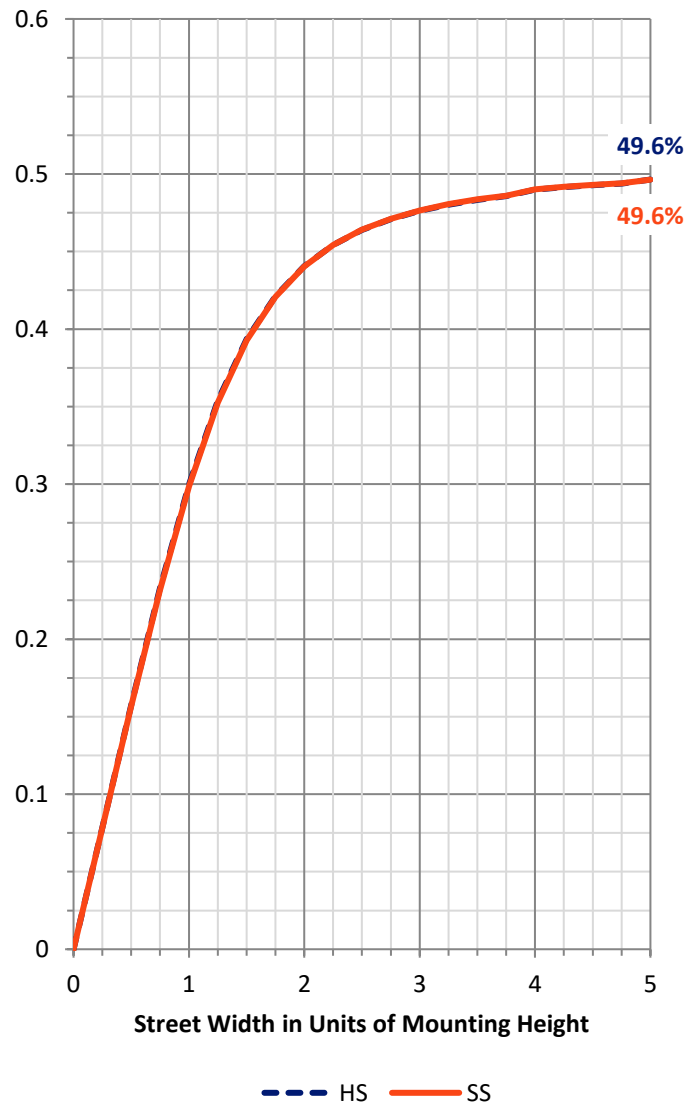
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.9	0.0	2589.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2589.9	0.0	2589.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5179.8	0.0	5179.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.9
10°-20°	160.8	3.1
20°-30°	327.4	6.3
30°-40°	598.0	11.5
40°-50°	1015.3	19.6
50°-60°	1322.2	25.5
60°-70°	1069.4	20.6
70°-80°	525.5	10.1
80°-90°	113.7	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°	5179.8	100.0
0°-180°	5179.8	100.0

Coefficient of Utilization



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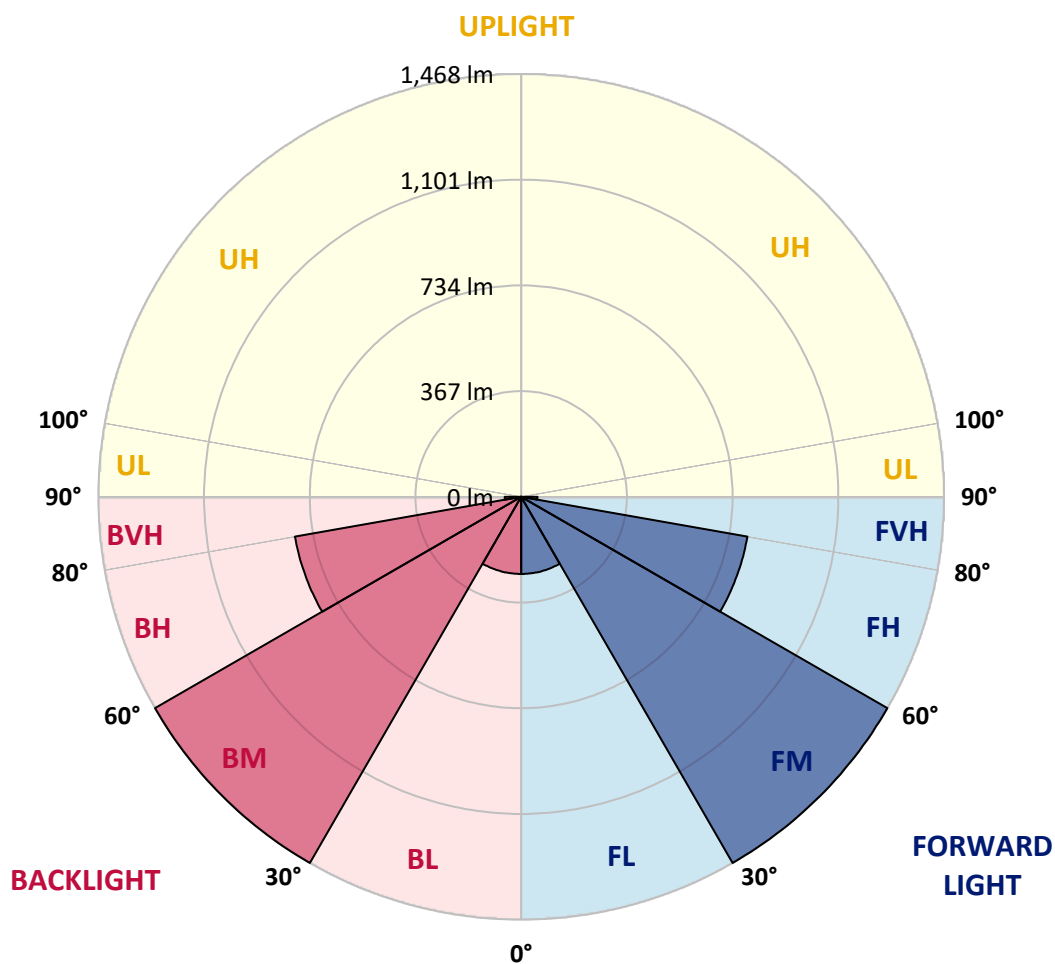
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.8	5.2			
FM	(30°-60°)	1467.7	28.3			
FH	(60°-80°)	797.4	15.4			G1/1800
FVH	(80°-90°)	56.9	1.1			G1/100
BL	(0°-30°)	267.8	5.2	B1/500		
BM	(30°-60°)	1467.7	28.3	B2/2500		
BH	(60°-80°)	797.4	15.4	B2/1000		G1/1800
BVH	(80°-90°)	56.9	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°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	482.1	482.1	482.1	482.1	482.1	482.1	483.1	483.1	483.1	483.1	483.1
5°	488.4	488.4	488.4	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
7.5°	498.0	496.9	498.0	498.0	498.0	499.0	499.0	498.0	499.0	499.0	499.0
10°	511.7	510.7	511.7	511.7	511.7	512.8	512.8	512.8	512.8	513.9	513.9
12.5°	531.9	530.8	531.9	532.9	531.9	532.9	532.9	532.9	532.9	532.9	532.9
15°	557.3	556.2	557.3	558.4	557.3	559.4	559.4	558.4	558.4	559.4	559.4
17.5°	588.0	585.9	587.0	588.0	588.0	590.1	590.1	589.1	590.1	591.2	590.1
20°	619.8	617.7	618.7	621.9	621.9	623.0	625.1	624.0	625.1	626.2	625.1
22.5°	654.8	653.7	654.8	657.9	657.9	659.0	662.2	662.2	662.2	663.2	662.2
25°	692.9	691.9	692.9	696.1	696.1	698.2	702.4	702.4	703.5	704.6	703.5
27.5°	737.4	736.3	738.5	741.6	742.7	745.9	751.2	752.2	753.3	754.4	752.2
30°	789.3	787.2	790.4	795.7	797.8	802.0	808.4	810.5	811.6	814.8	812.6
32.5°	848.7	846.5	850.8	857.1	860.3	866.7	875.1	877.3	880.4	882.6	879.4
35°	918.6	917.5	921.8	931.3	936.6	944.0	955.7	958.8	961.0	965.2	961.0
37.5°	995.9	994.9	1002.3	1012.9	1022.4	1034.1	1046.8	1052.1	1055.3	1060.6	1055.3
40°	1081.7	1080.7	1090.2	1102.9	1114.6	1129.4	1145.3	1152.7	1159.1	1164.4	1158.0
42.5°	1169.7	1169.7	1181.3	1195.1	1212.1	1230.1	1248.1	1256.6	1267.2	1270.3	1262.9
45°	1254.4	1255.5	1267.2	1284.1	1308.5	1331.8	1351.9	1362.5	1374.2	1377.3	1367.8
47.5°	1335.0	1336.0	1346.6	1368.9	1396.4	1422.9	1447.3	1462.1	1473.8	1474.8	1467.4
50°	1400.7	1404.9	1418.7	1438.8	1467.4	1494.9	1524.6	1543.7	1555.3	1558.5	1551.1
52.5°	1426.1	1433.5	1449.4	1474.8	1507.7	1536.3	1569.1	1593.5	1607.3	1612.6	1606.2
55°	1402.8	1411.2	1430.3	1458.9	1494.9	1531.0	1564.9	1593.5	1612.6	1620.0	1613.6
57.5°	1350.9	1351.9	1371.0	1399.6	1432.4	1469.5	1502.4	1528.9	1546.9	1554.3	1553.2
60°	1260.8	1260.8	1278.8	1306.4	1331.8	1369.9	1397.5	1417.6	1430.3	1438.8	1436.7
62.5°	1140.0	1140.0	1155.9	1184.5	1209.9	1242.8	1269.3	1290.5	1298.9	1308.5	1310.6
65°	1005.5	1005.5	1020.3	1048.9	1072.2	1101.9	1127.3	1147.4	1155.9	1167.6	1165.4
67.5°	862.4	861.4	875.1	899.5	921.8	949.3	973.7	992.7	1002.3	1016.1	1006.5
70°	715.2	715.2	726.8	745.9	761.8	789.3	812.6	831.7	839.1	850.8	845.5
72.5°	575.3	574.2	583.8	598.6	611.3	635.7	649.5	670.7	677.0	692.9	684.4
75°	449.2	447.1	454.5	465.1	473.6	489.5	500.1	517.0	522.3	532.9	528.7
77.5°	338.0	336.9	340.1	347.5	353.9	366.6	370.8	379.3	383.5	394.1	385.7
80°	242.6	239.4	242.6	246.9	249.0	258.5	259.6	262.8	264.9	272.3	263.8
82.5°	163.2	158.9	161.0	164.2	164.2	169.5	170.6	169.5	173.8	175.9	171.6
85°	93.2	90.1	91.1	93.2	92.2	95.4	95.4	94.3	97.5	97.5	95.4
87.5°	30.7	28.6	29.7	30.7	30.7	31.8	32.8	31.8	33.9	33.9	31.8
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°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	483.1	483.1	483.1	483.1	483.1	483.1	483.1	483.1
5°	489.5	489.5	489.5	489.5	489.5	488.4	488.4	488.4
7.5°	499.0	499.0	499.0	499.0	499.0	498.0	498.0	498.0
10°	513.9	512.8	512.8	512.8	512.8	511.7	512.8	511.7
12.5°	532.9	534.0	534.0	532.9	534.0	531.9	531.9	531.9
15°	559.4	558.4	558.4	558.4	558.4	557.3	557.3	557.3
17.5°	589.1	589.1	588.0	588.0	587.0	585.9	585.9	585.9
20°	624.0	623.0	621.9	620.9	619.8	617.7	616.6	616.6
22.5°	660.1	659.0	657.9	656.9	655.8	653.7	651.6	651.6
25°	700.3	698.2	697.1	695.0	692.9	690.8	689.7	688.7
27.5°	749.1	746.9	743.8	740.6	736.3	735.3	733.2	733.2
30°	807.3	804.2	799.9	794.6	790.4	786.1	784.0	783.0
32.5°	875.1	870.9	863.5	857.1	849.7	845.5	842.3	840.2
35°	954.6	948.2	939.8	930.2	920.7	913.3	908.0	908.0
37.5°	1047.8	1038.3	1025.6	1013.9	1000.2	991.7	985.3	981.1
40°	1149.6	1135.8	1119.9	1105.1	1089.2	1077.5	1068.0	1069.0
42.5°	1250.2	1238.6	1219.5	1201.5	1181.3	1165.4	1153.8	1152.7
45°	1356.2	1341.3	1318.0	1294.7	1271.4	1252.3	1238.6	1236.4
47.5°	1454.7	1438.8	1411.2	1382.6	1357.2	1336.0	1321.2	1319.1
50°	1535.2	1516.1	1487.5	1456.8	1429.3	1406.0	1390.1	1385.8
52.5°	1587.1	1565.9	1535.2	1498.1	1468.5	1442.0	1422.9	1417.6
55°	1595.6	1568.1	1535.2	1493.9	1461.0	1431.4	1410.2	1403.8
57.5°	1537.3	1507.7	1478.0	1442.0	1409.1	1377.3	1360.4	1351.9
60°	1424.0	1400.7	1376.3	1343.4	1317.0	1287.3	1273.5	1269.3
62.5°	1293.6	1273.5	1251.3	1217.4	1195.1	1168.6	1155.9	1150.6
65°	1153.8	1130.5	1109.3	1081.7	1057.4	1035.1	1017.1	1015.0
67.5°	999.1	974.7	956.7	932.4	908.0	886.8	875.1	868.8
70°	835.9	815.8	797.8	771.3	755.4	735.3	726.8	720.5
72.5°	673.8	662.2	639.9	623.0	605.0	589.1	583.8	577.4
75°	521.3	507.5	490.5	480.0	466.2	457.7	453.5	449.2
77.5°	382.5	370.8	361.3	357.1	350.7	342.2	339.0	335.9
80°	264.9	259.6	253.2	252.2	247.9	241.6	240.5	239.4
82.5°	171.6	168.5	166.3	166.3	164.2	160.0	158.9	158.9
85°	95.4	94.3	95.4	94.3	92.2	90.1	90.1	90.1
87.5°	31.8	31.8	32.8	33.9	30.7	30.7	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)