

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: P197932

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197932
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-C4-LED-E1-WQ-SG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6366.1 lumens
Efficiency: N/A
Efficacy: 109.8 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): 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



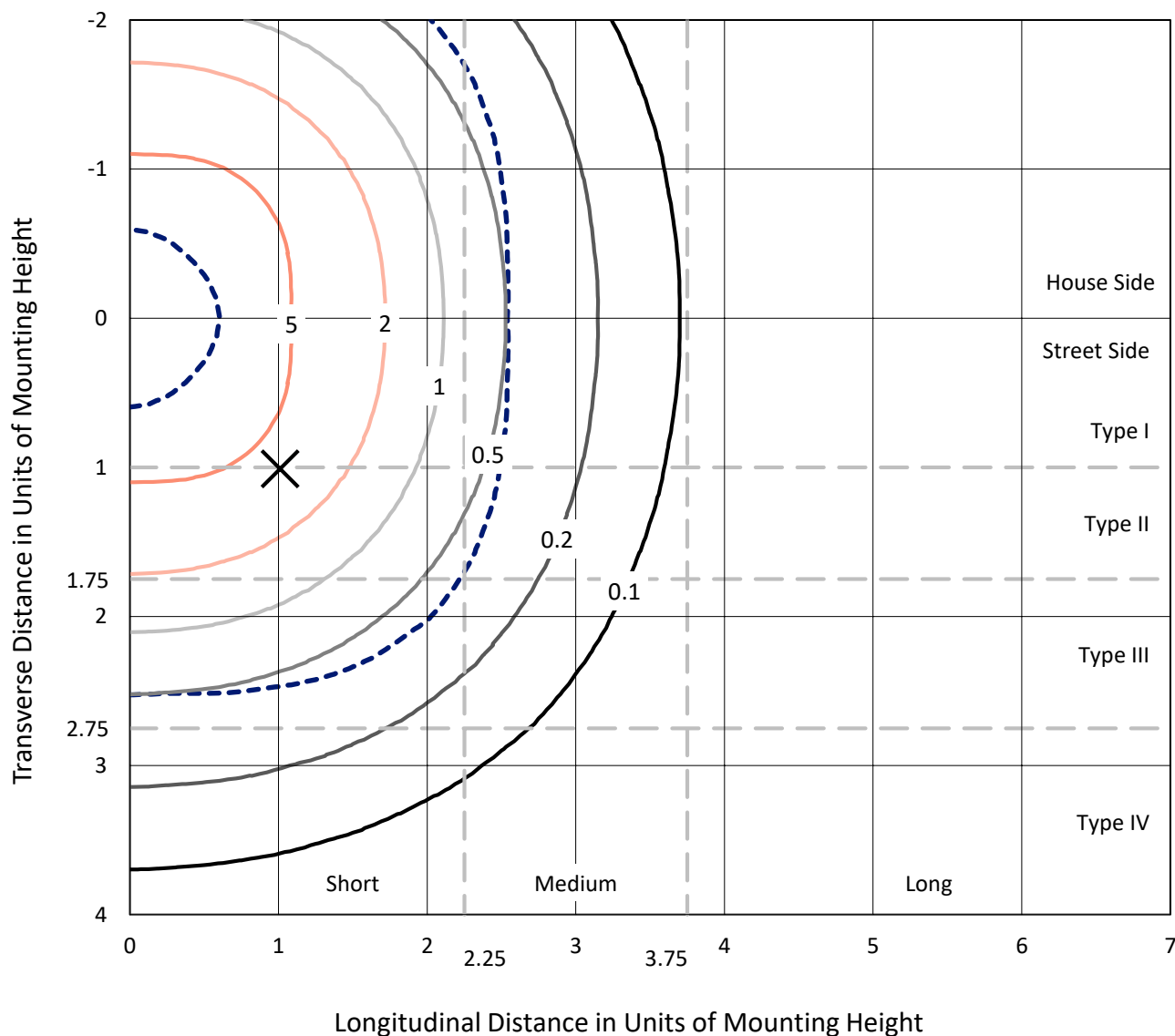
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

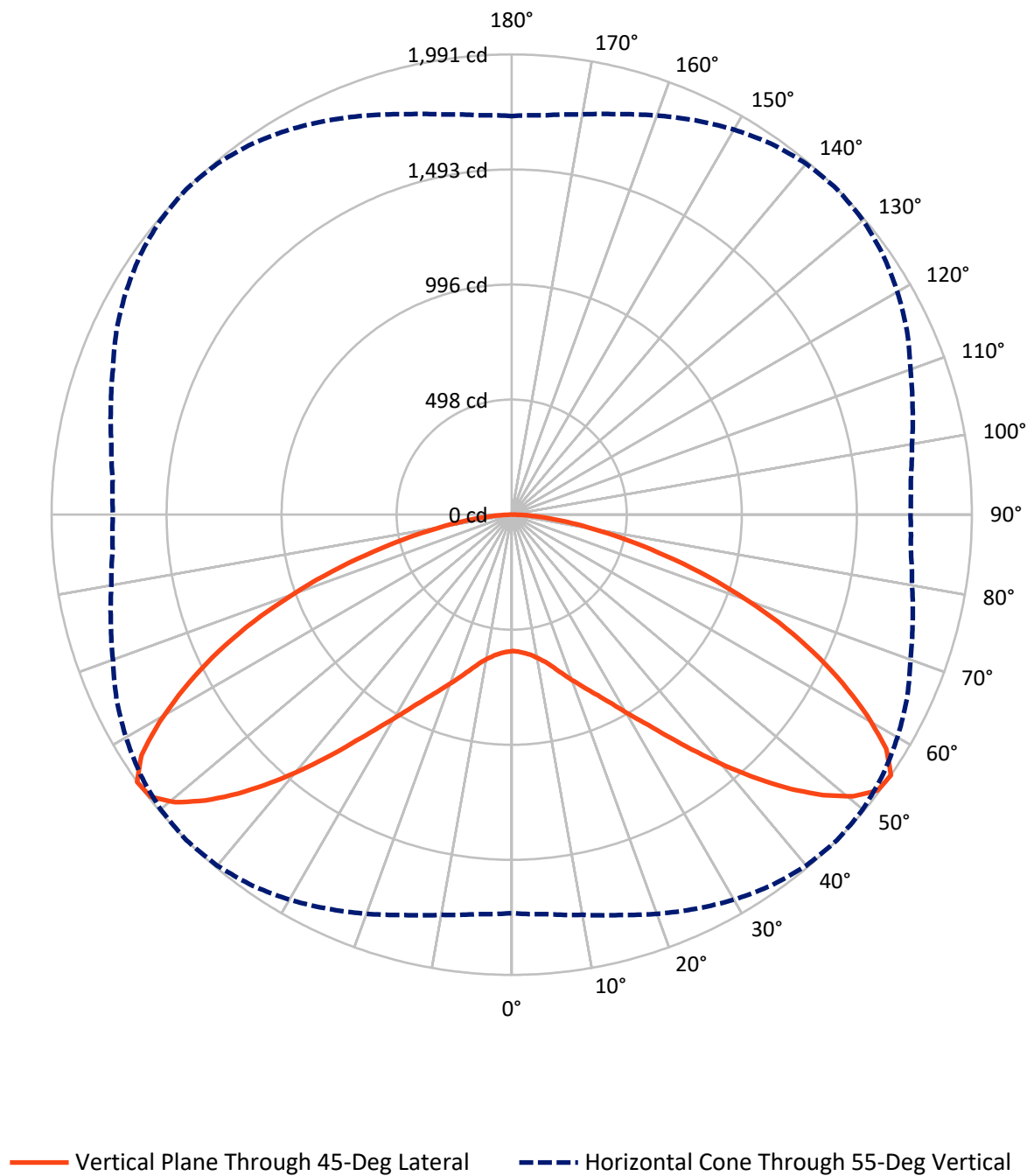


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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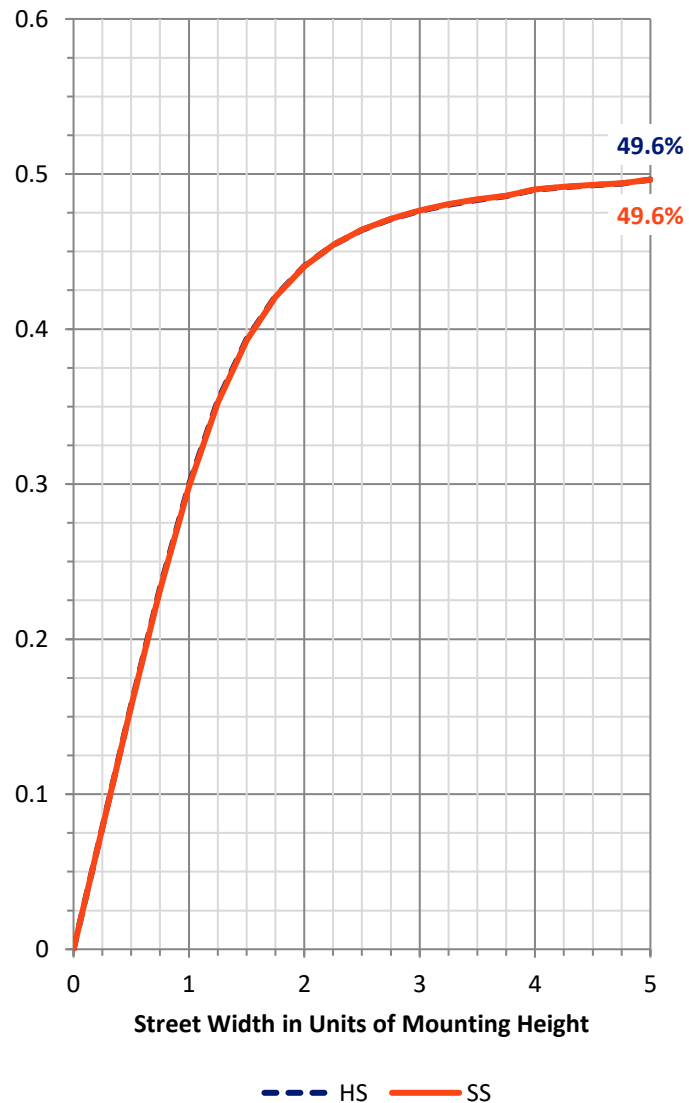
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3183.1	0.0	3183.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3183.1	0.0	3183.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6366.1	0.0	6366.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	0.9
10°-20°	197.6	3.1
20°-30°	402.4	6.3
30°-40°	734.9	11.5
40°-50°	1247.8	19.6
50°-60°	1625.1	25.5
60°-70°	1314.3	20.6
70°-80°	645.9	10.1
80°-90°	139.8	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°	6366.1	100.0
0°-180°	6366.1	100.0

Coefficient of Utilization



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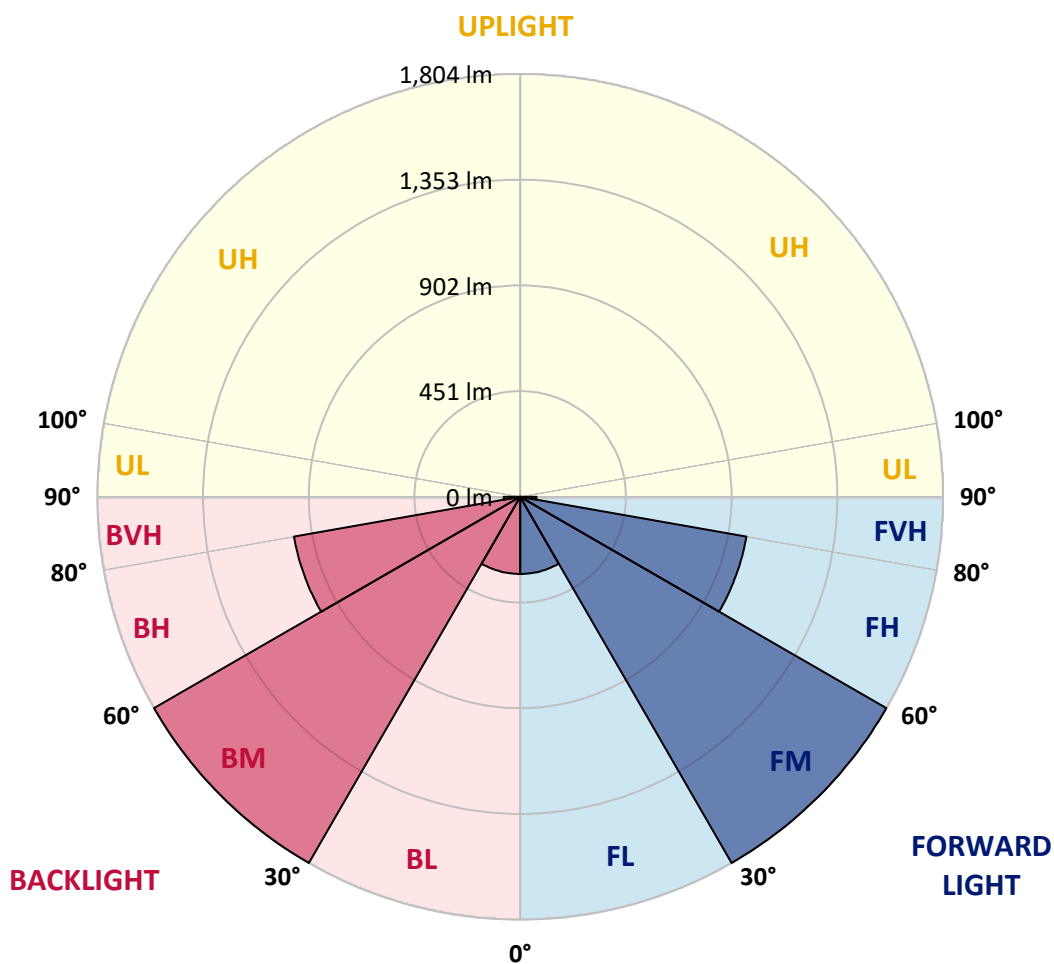
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.2	5.2			
FM	(30°-60°)	1803.9	28.3			
FH	(60°-80°)	980.1	15.4			G1/1800
FVH	(80°-90°)	69.9	1.1			G1/100
BL	(0°-30°)	329.2	5.2	B1/500		
BM	(30°-60°)	1803.9	28.3	B2/2500		
BH	(60°-80°)	980.1	15.4	B2/1000		G1/1800
BVH	(80°-90°)	69.9	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°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	592.5	592.5	592.5	592.5	592.5	592.5	593.8	593.8	593.8	593.8	593.8
5°	600.3	600.3	600.3	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6
7.5°	612.0	610.7	612.0	612.0	612.0	613.3	613.3	612.0	613.3	613.3	613.3
10°	628.9	627.6	628.9	628.9	628.9	630.2	630.2	630.2	630.2	631.5	631.5
12.5°	653.7	652.4	653.7	655.0	653.7	655.0	655.0	655.0	655.0	655.0	655.0
15°	684.9	683.6	684.9	686.2	684.9	687.5	687.5	686.2	686.2	687.5	687.5
17.5°	722.7	720.1	721.4	722.7	722.7	725.3	725.3	724.0	725.3	726.6	725.3
20°	761.8	759.2	760.5	764.4	764.4	765.7	768.3	767.0	768.3	769.6	768.3
22.5°	804.7	803.4	804.7	808.6	808.6	809.9	813.9	813.9	813.9	815.2	813.9
25°	851.6	850.3	851.6	855.5	855.5	858.1	863.3	863.3	864.6	865.9	864.6
27.5°	906.3	905.0	907.6	911.5	912.8	916.7	923.2	924.5	925.8	927.1	924.5
30°	970.1	967.5	971.4	977.9	980.5	985.7	993.6	996.2	997.5	1001.4	998.8
32.5°	1043.0	1040.4	1045.6	1053.5	1057.4	1065.2	1075.6	1078.2	1082.1	1084.7	1080.8
35°	1129.0	1127.7	1132.9	1144.6	1151.1	1160.2	1174.6	1178.5	1181.1	1186.3	1181.1
37.5°	1224.0	1222.7	1231.8	1244.9	1256.6	1270.9	1286.5	1293.0	1297.0	1303.5	1297.0
40°	1329.5	1328.2	1339.9	1355.6	1369.9	1388.1	1407.6	1416.8	1424.6	1431.1	1423.3
42.5°	1437.6	1437.6	1451.9	1468.8	1489.7	1511.8	1533.9	1544.4	1557.4	1561.3	1552.2
45°	1541.8	1543.1	1557.4	1578.2	1608.2	1636.8	1661.6	1674.6	1688.9	1692.8	1681.1
47.5°	1640.7	1642.0	1655.1	1682.4	1716.3	1748.8	1778.8	1797.0	1811.3	1812.6	1803.5
50°	1721.5	1726.7	1743.6	1768.3	1803.5	1837.4	1873.8	1897.3	1911.6	1915.5	1906.4
52.5°	1752.7	1761.8	1781.4	1812.6	1853.0	1888.1	1928.5	1958.5	1975.4	1981.9	1974.1
55°	1724.1	1734.5	1757.9	1793.1	1837.4	1881.6	1923.3	1958.5	1981.9	1991.0	1983.2
57.5°	1660.3	1661.6	1685.0	1720.2	1760.5	1806.1	1846.5	1879.0	1901.2	1910.3	1909.0
60°	1549.6	1549.6	1571.7	1605.6	1636.8	1683.7	1717.6	1742.3	1757.9	1768.3	1765.7
62.5°	1401.1	1401.1	1420.7	1455.8	1487.1	1527.4	1560.0	1586.0	1596.5	1608.2	1610.8
65°	1235.8	1235.8	1254.0	1289.1	1317.8	1354.3	1385.5	1410.2	1420.7	1435.0	1432.4
67.5°	1060.0	1058.7	1075.6	1105.5	1132.9	1166.7	1196.7	1220.1	1231.8	1248.8	1237.1
70°	879.0	879.0	893.3	916.7	936.3	970.1	998.8	1022.2	1031.3	1045.6	1039.1
72.5°	707.1	705.8	717.5	735.7	751.3	781.3	798.2	824.3	832.1	851.6	841.2
75°	552.1	549.5	558.6	571.7	582.1	601.6	614.6	635.5	642.0	655.0	649.8
77.5°	415.4	414.1	418.0	427.1	434.9	450.5	455.8	466.2	471.4	484.4	474.0
80°	298.2	294.3	298.2	303.4	306.0	317.7	319.0	322.9	325.5	334.7	324.2
82.5°	200.5	195.3	197.9	201.8	201.8	208.3	209.6	208.3	213.6	216.2	211.0
85°	114.6	110.7	112.0	114.6	113.3	117.2	117.2	115.9	119.8	119.8	117.2
87.5°	37.8	35.2	36.5	37.8	37.8	39.1	40.4	39.1	41.7	41.7	39.1
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°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8
5°	601.6	601.6	601.6	601.6	601.6	600.3	600.3	600.3
7.5°	613.3	613.3	613.3	613.3	613.3	612.0	612.0	612.0
10°	631.5	630.2	630.2	630.2	630.2	628.9	630.2	628.9
12.5°	655.0	656.3	656.3	655.0	656.3	653.7	653.7	653.7
15°	687.5	686.2	686.2	686.2	686.2	684.9	684.9	684.9
17.5°	724.0	724.0	722.7	722.7	721.4	720.1	720.1	720.1
20°	767.0	765.7	764.4	763.1	761.8	759.2	757.9	757.9
22.5°	811.2	809.9	808.6	807.3	806.0	803.4	800.8	800.8
25°	860.7	858.1	856.8	854.2	851.6	849.0	847.7	846.4
27.5°	920.6	918.0	914.1	910.2	905.0	903.7	901.1	901.1
30°	992.2	988.3	983.1	976.6	971.4	966.2	963.6	962.3
32.5°	1075.6	1070.4	1061.3	1053.5	1044.3	1039.1	1035.2	1032.6
35°	1173.3	1165.4	1155.0	1143.3	1131.6	1122.5	1116.0	1116.0
37.5°	1287.8	1276.1	1260.5	1246.2	1229.2	1218.8	1211.0	1205.8
40°	1412.8	1395.9	1376.4	1358.2	1338.6	1324.3	1312.6	1313.9
42.5°	1536.6	1522.2	1498.8	1476.7	1451.9	1432.4	1418.1	1416.8
45°	1666.8	1648.5	1619.9	1591.2	1562.6	1539.2	1522.2	1519.6
47.5°	1787.9	1768.3	1734.5	1699.3	1668.1	1642.0	1623.8	1621.2
50°	1886.8	1863.4	1828.2	1790.5	1756.6	1728.0	1708.4	1703.2
52.5°	1950.6	1924.6	1886.8	1841.3	1804.8	1772.2	1748.8	1742.3
55°	1961.1	1927.2	1886.8	1836.1	1795.7	1759.2	1733.2	1725.4
57.5°	1889.4	1853.0	1816.5	1772.2	1731.9	1692.8	1672.0	1661.6
60°	1750.1	1721.5	1691.5	1651.1	1618.6	1582.1	1565.2	1560.0
62.5°	1589.9	1565.2	1537.9	1496.2	1468.8	1436.3	1420.7	1414.2
65°	1418.1	1389.4	1363.4	1329.5	1299.6	1272.2	1250.1	1247.5
67.5°	1227.9	1198.0	1175.9	1145.9	1116.0	1089.9	1075.6	1067.8
70°	1027.4	1002.7	980.5	948.0	928.4	903.7	893.3	885.5
72.5°	828.2	813.9	786.5	765.7	743.5	724.0	717.5	709.7
75°	640.7	623.7	602.9	589.9	573.0	562.5	557.3	552.1
77.5°	470.1	455.8	444.0	438.8	431.0	420.6	416.7	412.8
80°	325.5	319.0	311.2	309.9	304.7	296.9	295.6	294.3
82.5°	211.0	207.0	204.4	204.4	201.8	196.6	195.3	195.3
85°	117.2	115.9	117.2	115.9	113.3	110.7	110.7	110.7
87.5°	39.1	39.1	40.4	41.7	37.8	37.8	36.5	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)