

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: LUMARK

Report Number: P144244

Luminaire Tested: **LDRL-5XQ-F03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144244
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5XQ-F03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6994.3 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

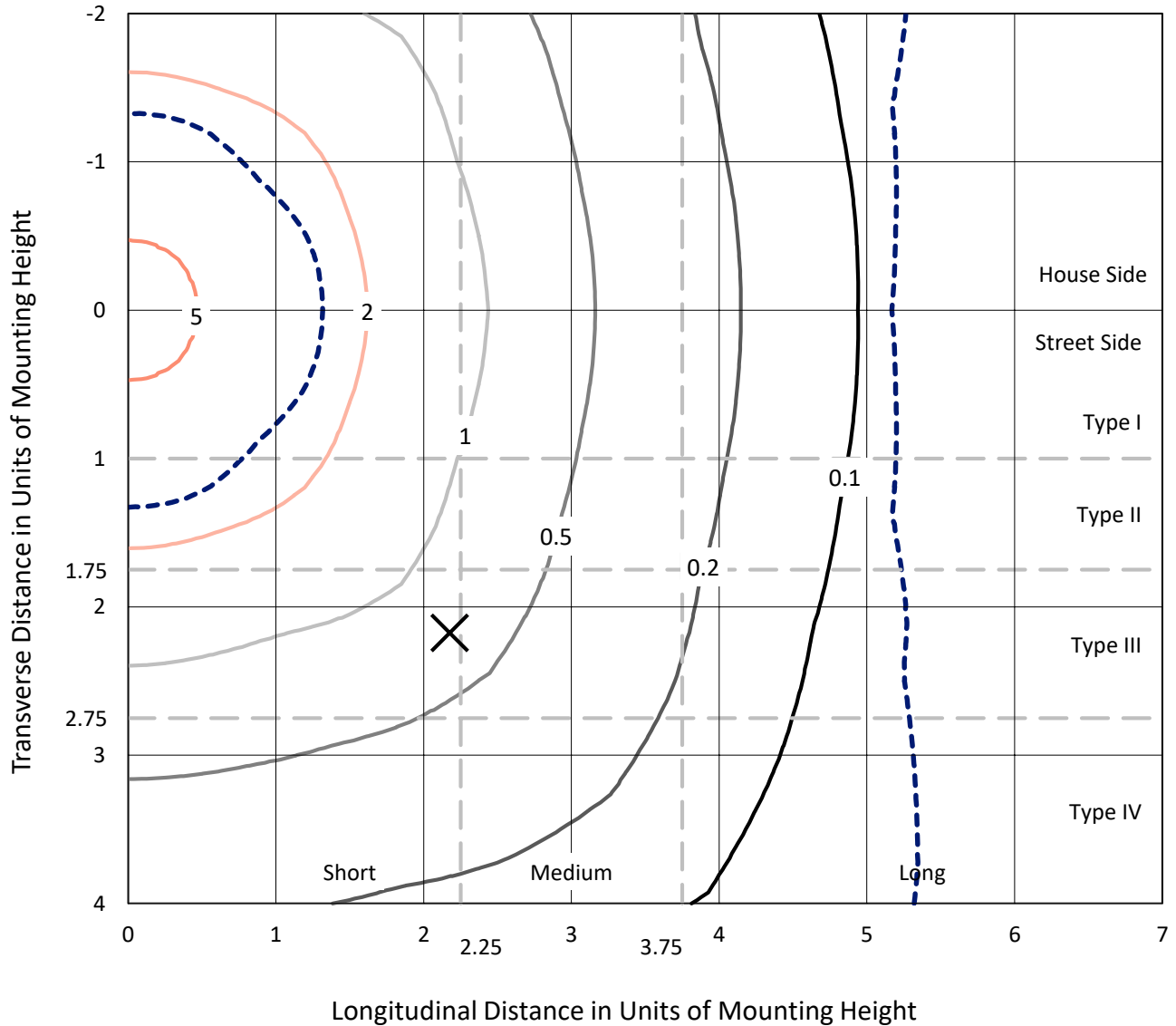
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

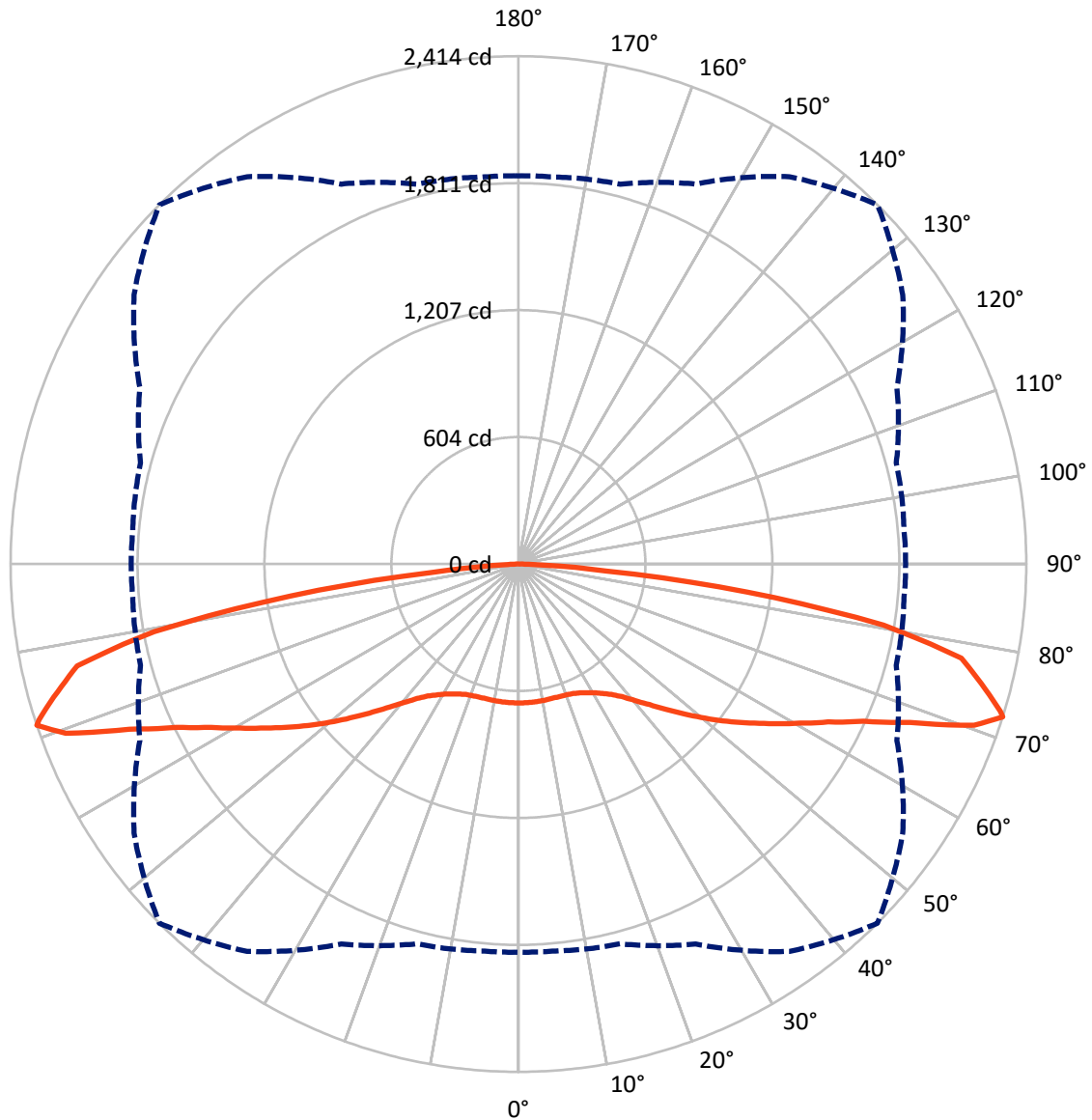


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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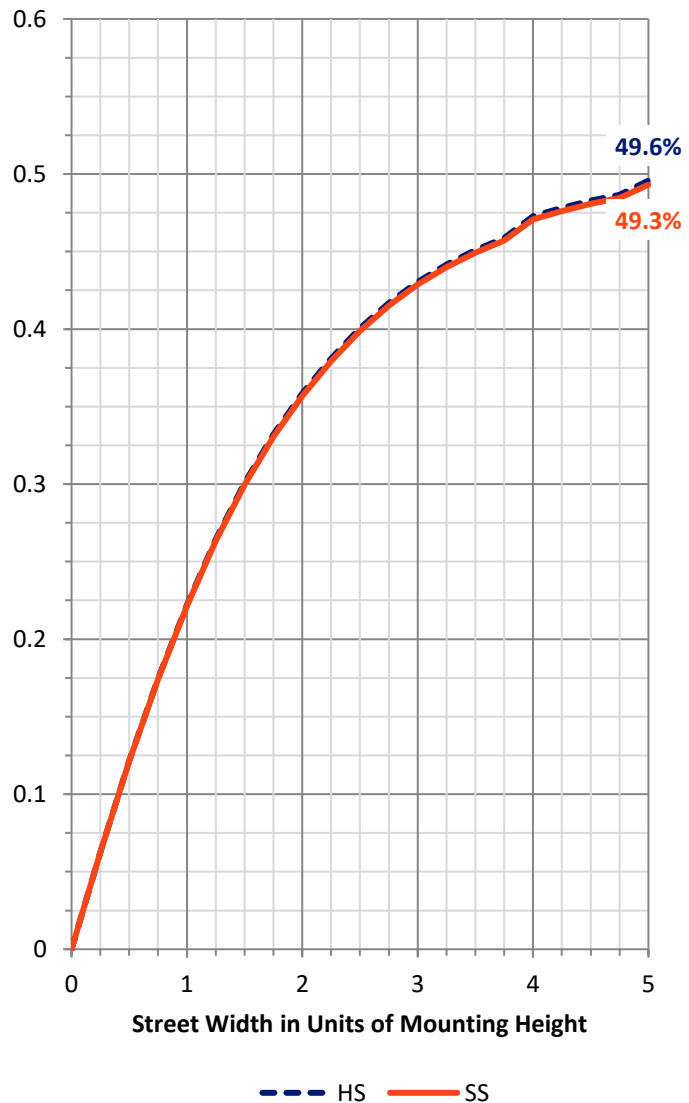
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.1	0.0	3497.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3497.1	0.0	3497.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6994.3	0.0	6994.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	0.9
10°-20°	187.3	2.7
20°-30°	314.6	4.5
30°-40°	478.8	6.8
40°-50°	756.9	10.8
50°-60°	1156.0	16.5
60°-70°	1693.5	24.2
70°-80°	1924.0	27.5
80°-90°	420.3	6.0
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°	6994.3	100.0
0°-180°	6994.3	100.0



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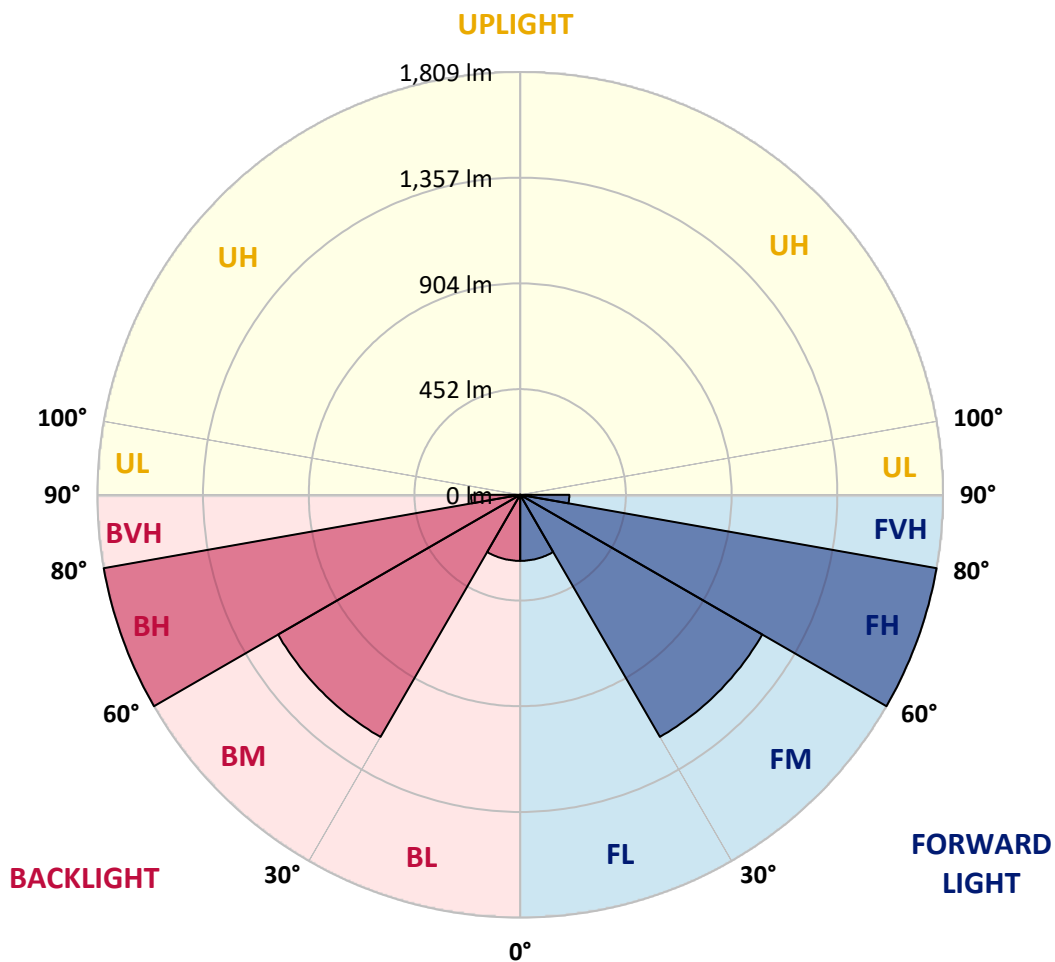
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.4	4.0			
FM	(30°-60°)	1195.8	17.1			
FH	(60°-80°)	1808.8	25.9			G2/5000
FVH	(80°-90°)	210.1	3.0			G2/225
BL	(0°-30°)	282.4	4.0	B1/500		
BM	(30°-60°)	1195.8	17.1	B2/2500		
BH	(60°-80°)	1808.8	25.9	B3/2500		G2/5000
BVH	(80°-90°)	210.1	3.0			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°	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5
2.5°	661.8	661.6	661.2	660.7	660.5	660.2	660.2	660.2	660.2	660.0	660.2
5°	661.8	661.6	661.3	661.0	660.6	660.2	660.3	660.3	660.2	660.0	660.3
7.5°	661.0	661.2	660.8	660.5	660.4	660.3	660.2	660.0	659.8	659.6	659.7
10°	661.2	662.1	661.4	660.8	660.5	660.2	659.8	659.4	659.2	659.2	658.9
12.5°	661.6	662.6	661.8	661.0	660.6	660.3	659.8	659.4	659.0	658.7	658.3
15°	663.0	663.7	663.0	662.3	661.6	661.0	660.5	660.0	659.4	658.7	658.4
17.5°	663.9	665.0	664.2	663.4	662.7	661.9	661.4	661.0	660.5	660.0	659.5
20°	665.5	666.6	665.9	665.2	664.8	664.4	664.0	663.6	663.3	663.0	662.2
22.5°	668.4	669.3	669.1	668.8	669.0	669.1	669.2	669.4	669.1	668.8	668.0
25°	674.5	674.6	675.0	675.4	676.1	676.8	677.4	677.9	678.2	678.6	677.6
27.5°	685.2	686.0	686.4	686.8	687.9	689.0	690.2	691.5	692.2	692.8	691.8
30°	698.9	698.9	699.8	700.6	702.5	704.4	706.0	707.6	708.8	710.0	709.3
32.5°	716.6	717.8	718.9	720.0	722.4	724.8	727.4	730.2	731.7	733.3	732.1
35°	743.5	744.9	746.0	747.2	749.6	752.1	755.2	758.2	759.6	761.0	760.1
37.5°	781.5	781.6	783.1	784.6	786.2	787.8	791.9	796.0	797.7	799.4	798.0
40°	832.8	833.1	833.4	833.8	835.2	836.7	841.7	846.7	849.6	852.6	849.7
42.5°	891.9	894.4	894.3	894.2	895.2	896.2	901.0	905.7	909.9	914.0	912.4
45°	961.6	961.1	960.2	959.4	962.4	965.4	972.2	979.0	982.7	986.4	983.0
47.5°	1031.9	1031.2	1030.0	1028.8	1031.8	1034.8	1045.0	1055.2	1060.6	1065.8	1060.2
50°	1102.0	1104.8	1103.2	1101.6	1106.1	1110.6	1123.5	1136.4	1144.2	1152.0	1145.4
52.5°	1179.6	1181.6	1179.8	1178.0	1184.3	1190.5	1205.8	1221.0	1231.4	1241.8	1233.0
55°	1259.9	1257.4	1258.4	1259.4	1265.4	1271.2	1290.0	1308.8	1321.2	1333.7	1323.7
57.5°	1335.0	1335.9	1334.9	1333.9	1343.2	1352.4	1376.1	1399.7	1415.3	1430.9	1418.5
60°	1411.9	1412.2	1409.9	1407.6	1417.7	1427.8	1461.7	1495.6	1515.9	1536.1	1519.0
62.5°	1497.9	1497.6	1493.7	1489.8	1501.6	1513.4	1555.6	1597.6	1625.5	1653.3	1632.5
65°	1603.3	1600.6	1598.3	1596.0	1609.8	1623.4	1675.7	1727.9	1765.5	1803.0	1776.2
67.5°	1758.7	1756.7	1751.9	1747.2	1762.4	1777.6	1844.6	1911.6	1960.1	2008.6	1973.2
70°	1929.7	1925.8	1929.2	1932.4	1967.7	2003.0	2092.8	2182.6	2240.0	2297.5	2238.0
72°	1845.3	1846.9	1857.9	1868.8	1930.7	1992.6	2120.2	2247.8	2330.9	2414.0	2322.0
72.5°	1815.9	1817.2	1829.7	1842.2	1901.2	1960.2	2091.8	2223.3	2309.4	2395.4	2300.9
75°	1691.0	1694.6	1709.0	1723.4	1783.2	1843.0	1975.7	2108.4	2190.8	2273.3	2178.6
77.5°	1487.2	1498.6	1513.1	1527.7	1599.0	1670.2	1820.2	1970.2	2061.2	2152.2	2044.8
80°	1135.1	1131.0	1156.1	1181.2	1249.3	1317.4	1433.4	1549.4	1654.3	1759.2	1638.4
82.5°	441.1	450.8	502.8	554.8	626.2	697.6	801.5	905.4	999.9	1094.3	993.8
85°	45.4	51.8	70.5	89.1	128.0	167.0	230.3	293.6	355.7	417.8	350.4
87.5°	18.4	20.1	25.9	31.7	33.2	34.6	41.8	49.1	48.8	48.4	47.7
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°	660.5	660.5	660.5	660.5	660.5	660.5	660.5	660.5
2.5°	660.2	660.5	660.7	660.7	660.8	661.1	661.4	661.0
5°	660.5	660.6	660.7	660.7	660.8	661.1	661.4	661.0
7.5°	659.8	659.8	659.8	660.2	660.5	660.6	660.8	660.5
10°	658.7	658.8	659.0	659.3	659.6	659.9	660.2	660.5
12.5°	658.0	658.1	658.2	658.6	659.0	659.3	659.6	660.0
15°	658.0	658.1	658.2	658.5	658.7	659.1	659.6	660.0
17.5°	658.9	658.7	658.4	658.7	658.9	659.5	660.0	660.5
20°	661.4	661.0	660.7	660.7	660.8	661.3	661.8	661.9
22.5°	667.2	666.2	665.0	664.8	664.6	664.7	664.8	665.0
25°	676.6	674.8	673.0	672.4	671.8	671.6	671.4	671.8
27.5°	690.8	688.8	686.8	685.5	684.2	683.6	682.9	683.1
30°	708.5	706.1	703.7	701.7	699.6	698.7	697.8	698.0
32.5°	730.8	728.0	725.2	722.5	719.8	718.5	717.3	717.5
35°	759.4	756.1	752.8	750.5	748.2	746.3	744.4	746.0
37.5°	796.7	793.6	790.6	789.1	787.6	785.9	784.2	784.5
40°	846.9	843.7	840.6	839.3	838.0	835.9	833.8	834.2
42.5°	910.6	905.9	901.2	898.9	896.6	895.6	894.6	895.3
45°	979.4	974.7	970.0	968.0	966.1	963.4	960.6	963.2
47.5°	1054.6	1048.6	1042.6	1039.2	1035.8	1036.6	1037.6	1035.5
50°	1138.9	1128.8	1118.8	1114.8	1110.9	1110.9	1110.8	1110.6
52.5°	1224.2	1210.3	1196.4	1193.0	1189.6	1188.8	1188.0	1187.1
55°	1313.8	1296.7	1279.6	1273.3	1267.0	1267.8	1268.8	1271.2
57.5°	1406.0	1383.6	1361.1	1353.8	1346.6	1347.1	1347.6	1351.8
60°	1502.0	1472.9	1443.8	1435.8	1427.8	1429.9	1432.1	1434.5
62.5°	1611.6	1576.5	1541.3	1530.6	1519.8	1522.5	1525.2	1531.8
65°	1749.4	1705.6	1661.6	1650.4	1639.2	1640.5	1641.8	1653.1
67.5°	1937.8	1879.4	1820.9	1810.6	1800.3	1802.1	1804.0	1822.3
70°	2178.5	2091.9	2005.2	1962.6	1920.0	1913.3	1906.6	1916.3
72°	2230.1	2107.7	1985.4	1922.5	1859.6	1849.8	1839.9	1840.8
72.5°	2206.4	2082.6	1958.8	1897.8	1836.8	1828.7	1820.6	1819.1
75°	2084.0	1963.0	1842.0	1778.8	1715.8	1700.5	1685.2	1685.2
77.5°	1937.4	1784.8	1632.2	1564.2	1496.1	1480.1	1464.2	1451.7
80°	1517.6	1380.8	1244.1	1175.0	1105.8	1080.3	1054.8	1039.6
82.5°	893.2	767.5	641.8	554.0	466.2	439.8	413.5	376.8
85°	283.0	217.7	152.4	119.0	85.5	69.1	52.7	46.1
87.5°	47.0	38.2	29.4	28.4	27.4	21.5	15.6	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)