

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: P144243

Luminaire Tested: **LDRL-5XQ-F03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144243
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6463.1 lumens
Efficiency: N/A
Efficacy: 82.5 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

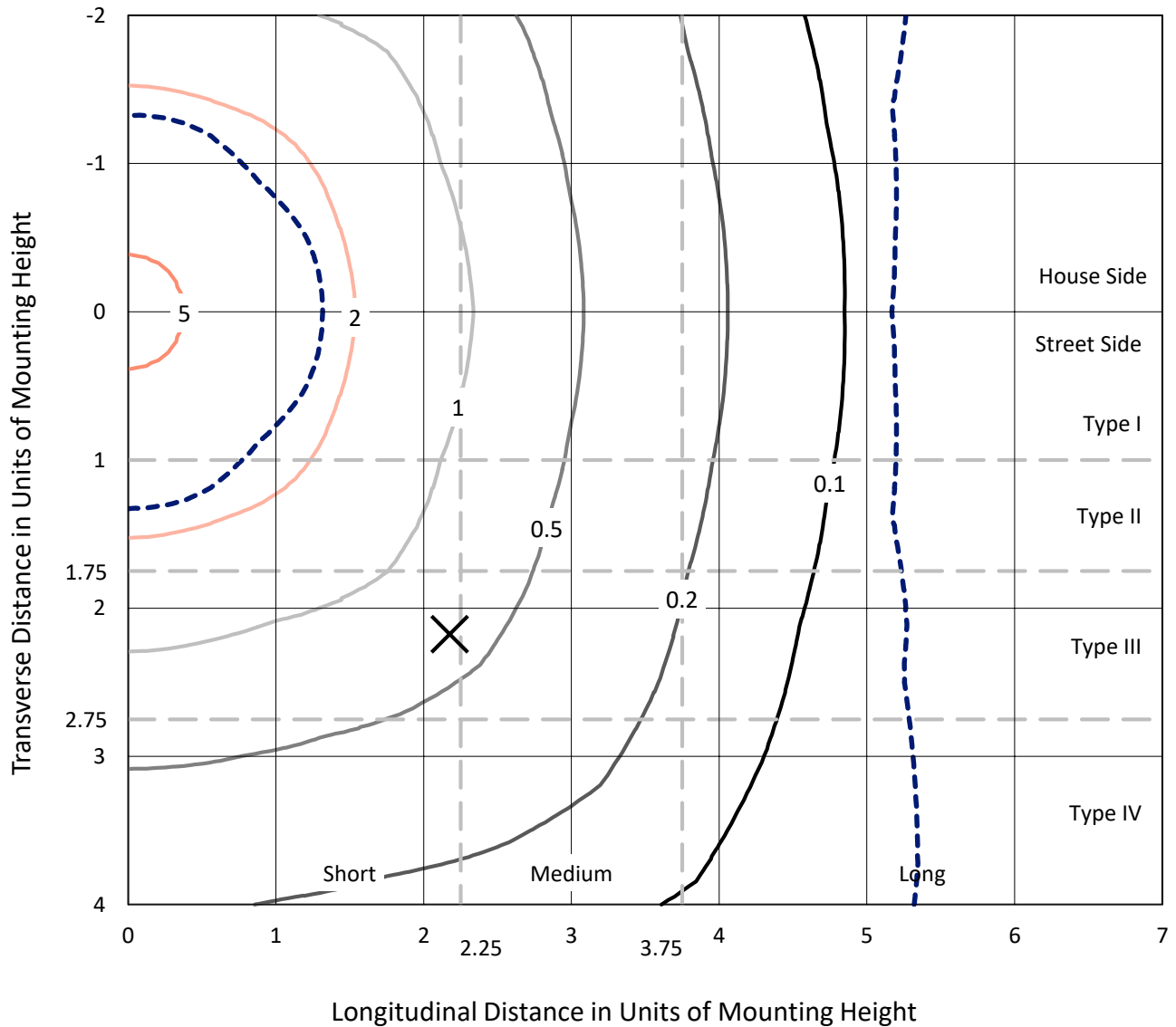
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

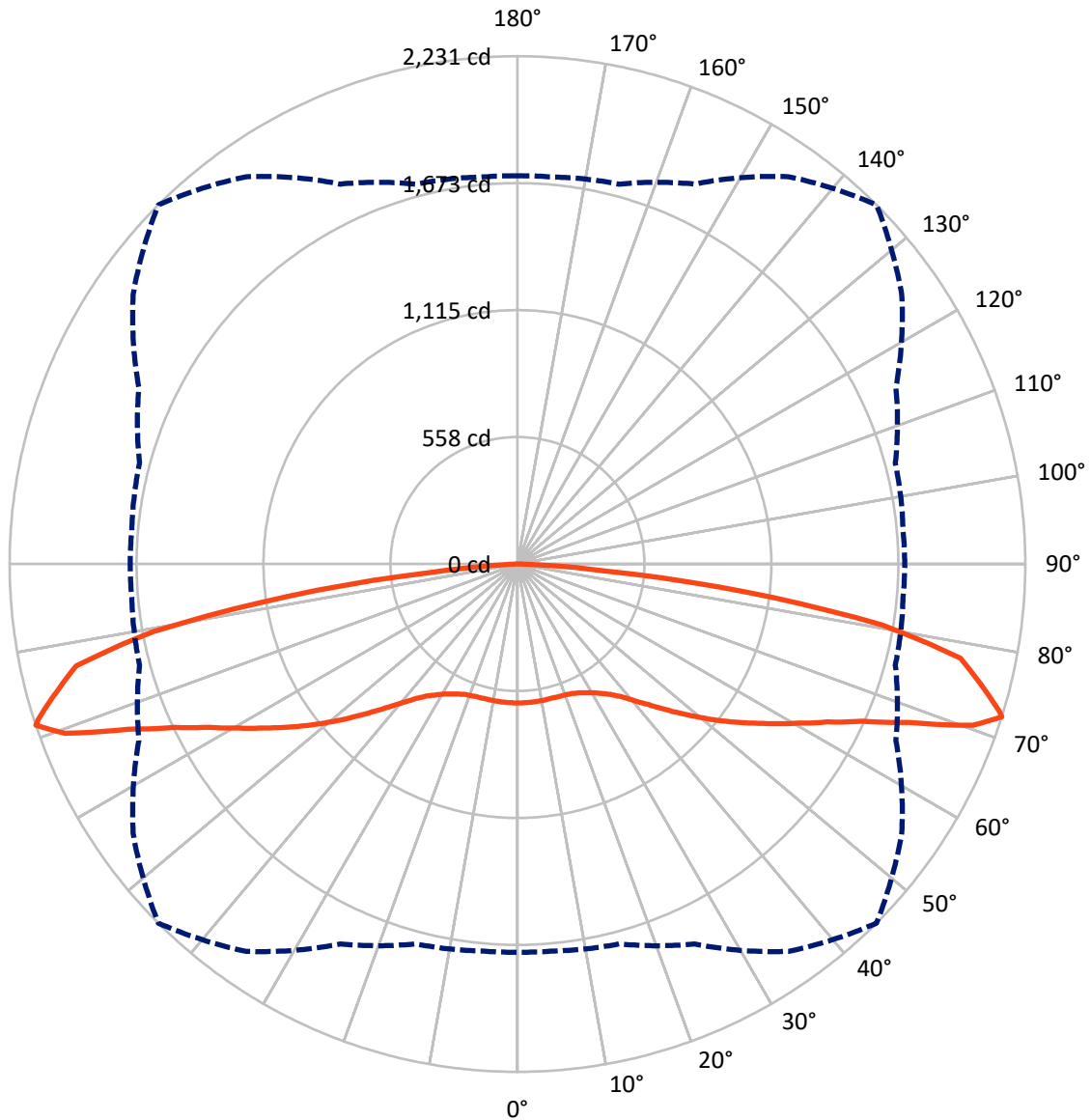
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	3231.6	0.0	3231.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3231.6	0.0	3231.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6463.1	0.0	6463.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	0.9
10°-20°	173.0	2.7
20°-30°	290.7	4.5
30°-40°	442.4	6.8
40°-50°	699.4	10.8
50°-60°	1068.2	16.5
60°-70°	1564.9	24.2
70°-80°	1777.9	27.5
80°-90°	388.3	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°	6463.1	100.0
0°-180°	6463.1	100.0



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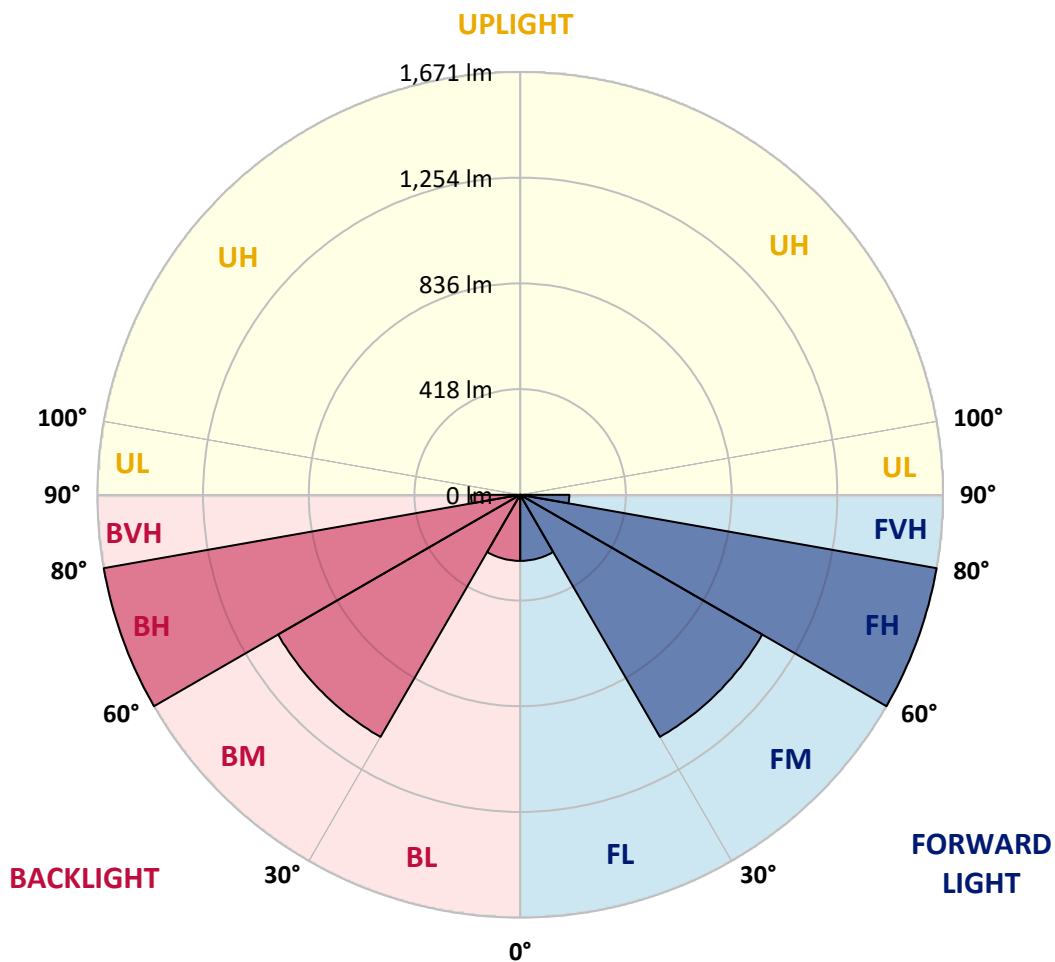
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.0	4.0			
FM (30°-60°)	1105.0	17.1			
FH (60°-80°)	1671.4	25.9			G1/1800
FVH (80°-90°)	194.2	3.0			G2/225
BL (0°-30°)	261.0	4.0	B1/500		
BM (30°-60°)	1105.0	17.1	B2/2500		
BH (60°-80°)	1671.4	25.9	B3/2500		G1/1800
BVH (80°-90°)	194.2	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°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3
2.5°	611.6	611.4	611.0	610.6	610.3	610.1	610.1	610.1	610.0	609.9	610.0
5°	611.6	611.4	611.1	610.8	610.4	610.2	610.2	610.2	610.0	609.9	610.1
7.5°	610.8	611.0	610.6	610.3	610.2	610.1	610.0	610.0	609.7	609.5	609.6
10°	611.0	611.8	611.2	610.6	610.4	610.2	609.7	609.3	609.2	609.1	608.9
12.5°	611.4	612.2	611.5	610.8	610.4	610.1	609.7	609.3	609.0	608.6	608.3
15°	612.6	613.2	612.7	612.0	611.4	610.8	610.3	609.9	609.3	608.7	608.4
17.5°	613.4	614.6	613.8	613.0	612.3	611.6	611.2	610.8	610.3	609.9	609.4
20°	615.0	616.0	615.4	614.8	614.3	613.8	613.6	613.2	612.9	612.6	611.9
22.5°	617.6	618.4	618.2	618.0	618.2	618.2	618.4	618.5	618.3	618.0	617.3
25°	623.3	623.3	623.7	624.1	624.8	625.4	625.9	626.4	626.8	627.0	626.1
27.5°	633.1	634.0	634.3	634.6	635.6	636.7	637.8	639.0	639.6	640.2	639.3
30°	645.9	645.9	646.6	647.4	649.1	650.9	652.3	653.8	654.9	656.1	655.4
32.5°	662.2	663.2	664.2	665.3	667.5	669.7	672.2	674.7	676.2	677.7	676.5
35°	687.0	688.3	689.4	690.4	692.7	695.0	697.8	700.7	701.9	703.2	702.4
37.5°	722.2	722.2	723.6	725.1	726.6	728.0	731.8	735.5	737.1	738.6	737.4
40°	769.6	769.8	770.2	770.4	771.8	773.2	777.8	782.4	785.1	787.8	785.2
42.5°	824.2	826.4	826.4	826.2	827.2	828.1	832.5	836.9	840.8	844.6	843.1
45°	888.6	888.1	887.3	886.4	889.3	892.1	898.4	904.6	908.1	911.5	908.3
47.5°	953.6	953.0	951.8	950.6	953.4	956.3	965.7	975.0	980.0	985.0	979.7
50°	1018.4	1020.8	1019.4	1018.0	1022.1	1026.3	1038.2	1050.1	1057.3	1064.6	1058.5
52.5°	1090.0	1092.0	1090.3	1088.6	1094.4	1100.1	1114.2	1128.3	1137.9	1147.5	1139.4
55°	1164.2	1162.0	1162.9	1163.8	1169.3	1174.7	1192.1	1209.4	1220.9	1232.4	1223.2
57.5°	1233.6	1234.4	1233.5	1232.6	1241.2	1249.8	1271.6	1293.4	1307.8	1322.2	1310.8
60°	1304.7	1304.9	1302.8	1300.8	1310.1	1319.4	1350.7	1382.0	1400.8	1419.4	1403.7
62.5°	1384.1	1384.0	1380.3	1376.6	1387.6	1398.6	1437.4	1476.3	1502.0	1527.7	1508.5
65°	1481.6	1479.1	1477.0	1474.9	1487.5	1500.2	1548.4	1596.7	1631.4	1666.1	1641.3
67.5°	1625.2	1623.2	1618.8	1614.4	1628.6	1642.7	1704.6	1766.4	1811.2	1856.1	1823.4
70°	1783.2	1779.6	1782.6	1785.6	1818.2	1850.8	1933.8	2016.8	2069.9	2123.0	2068.0
72°	1705.2	1706.6	1716.8	1727.0	1784.1	1841.2	1959.2	2077.0	2153.8	2230.6	2145.7
72.5°	1678.0	1679.2	1690.8	1702.2	1756.8	1811.4	1932.9	2054.4	2134.0	2213.6	2126.2
75°	1562.6	1566.0	1579.3	1592.6	1647.8	1703.1	1825.7	1948.2	2024.4	2100.6	2013.2
77.5°	1374.4	1384.8	1398.3	1411.8	1477.6	1543.4	1682.0	1820.6	1904.7	1988.8	1889.5
80°	1048.8	1045.1	1068.3	1091.5	1154.4	1217.4	1324.6	1431.8	1528.7	1625.6	1513.9
82.5°	407.6	416.6	464.6	512.7	578.7	644.7	740.7	836.7	924.0	1011.2	918.4
85°	42.0	47.8	65.1	82.4	118.3	154.2	212.8	271.3	328.7	386.0	323.8
87.5°	16.9	18.6	24.0	29.3	30.6	32.0	38.7	45.4	45.0	44.7	44.1
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°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3
2.5°	610.2	610.4	610.6	610.6	610.6	610.8	611.2	610.8
5°	610.3	610.4	610.6	610.6	610.6	610.8	611.2	610.8
7.5°	609.7	609.7	609.7	610.0	610.4	610.4	610.6	610.3
10°	608.6	608.8	608.9	609.2	609.5	609.8	610.1	610.3
12.5°	608.0	608.1	608.2	608.6	608.9	609.2	609.5	609.9
15°	608.0	608.2	608.2	608.5	608.7	609.1	609.5	609.9
17.5°	608.9	608.7	608.4	608.7	608.9	609.4	609.9	610.3
20°	611.2	610.9	610.6	610.6	610.6	611.1	611.6	611.6
22.5°	616.6	615.6	614.5	614.3	614.1	614.2	614.3	614.5
25°	625.2	623.5	621.8	621.3	620.8	620.6	620.4	620.8
27.5°	638.4	636.5	634.6	633.4	632.3	631.7	631.0	631.2
30°	654.6	652.4	650.2	648.4	646.5	645.7	644.8	645.0
32.5°	675.3	672.7	670.1	667.6	665.1	664.0	662.8	663.0
35°	701.7	698.6	695.6	693.5	691.4	689.6	687.8	689.4
37.5°	736.2	733.3	730.5	729.2	727.8	726.2	724.7	724.9
40°	782.6	779.6	776.7	775.6	774.4	772.4	770.4	770.9
42.5°	841.6	837.2	832.8	830.6	828.6	827.6	826.7	827.3
45°	905.0	900.7	896.3	894.5	892.8	890.2	887.7	890.0
47.5°	974.4	968.9	963.4	960.2	957.1	957.9	958.8	956.9
50°	1052.4	1043.1	1033.8	1030.2	1026.5	1026.5	1026.5	1026.3
52.5°	1131.2	1118.4	1105.6	1102.4	1099.2	1098.5	1097.8	1096.9
55°	1214.0	1198.2	1182.4	1176.6	1170.8	1171.6	1172.4	1174.7
57.5°	1299.2	1278.5	1257.7	1251.0	1244.3	1244.8	1245.4	1249.1
60°	1387.9	1361.0	1334.2	1326.8	1319.4	1321.3	1323.3	1325.6
62.5°	1489.2	1456.8	1424.3	1414.4	1404.4	1406.9	1409.4	1415.5
65°	1616.6	1576.0	1535.5	1525.1	1514.8	1515.9	1517.1	1527.5
67.5°	1790.7	1736.6	1682.6	1673.1	1663.6	1665.3	1667.0	1683.9
70°	2013.1	1933.0	1853.0	1813.6	1774.2	1768.0	1761.8	1770.8
72°	2060.8	1947.7	1834.6	1776.5	1718.4	1709.2	1700.2	1701.0
72.5°	2038.8	1924.4	1810.1	1753.7	1697.2	1689.8	1682.4	1680.9
75°	1925.7	1813.9	1702.0	1643.7	1585.4	1571.3	1557.2	1557.2
77.5°	1790.2	1649.3	1508.3	1445.4	1382.5	1367.8	1353.0	1341.5
80°	1402.3	1275.9	1149.6	1085.8	1021.9	998.3	974.6	960.7
82.5°	825.4	709.2	593.0	511.9	430.8	406.4	382.1	348.2
85°	261.5	201.2	140.9	110.0	79.0	63.8	48.7	42.6
87.5°	43.5	35.4	27.2	26.2	25.3	19.8	14.4	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)