

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: P144239

Luminaire Tested: **LDRL-5XQ-E03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144239
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-E03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8472.5 lumens
Efficiency: N/A
Efficacy: 112.7 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 - G3

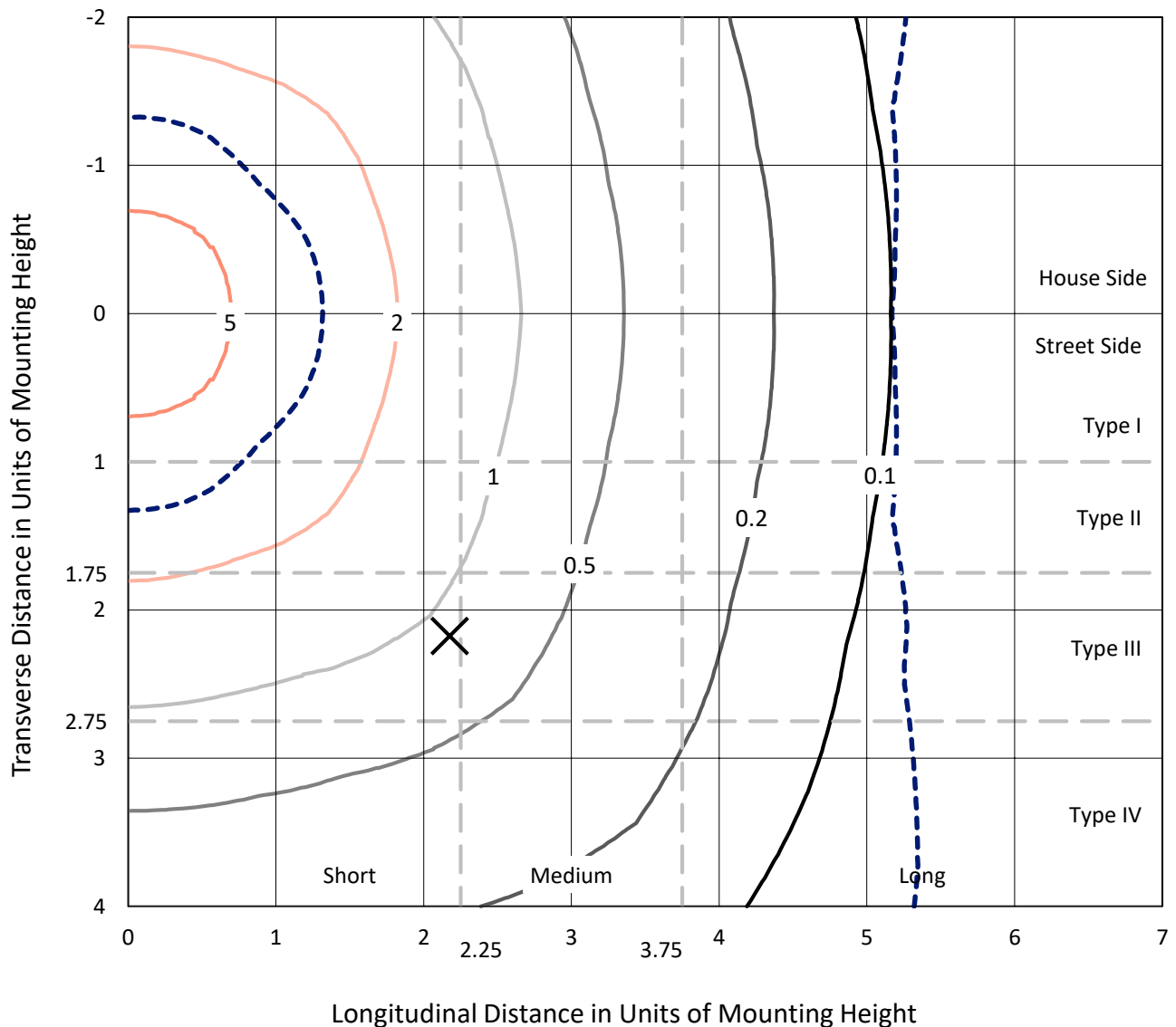
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

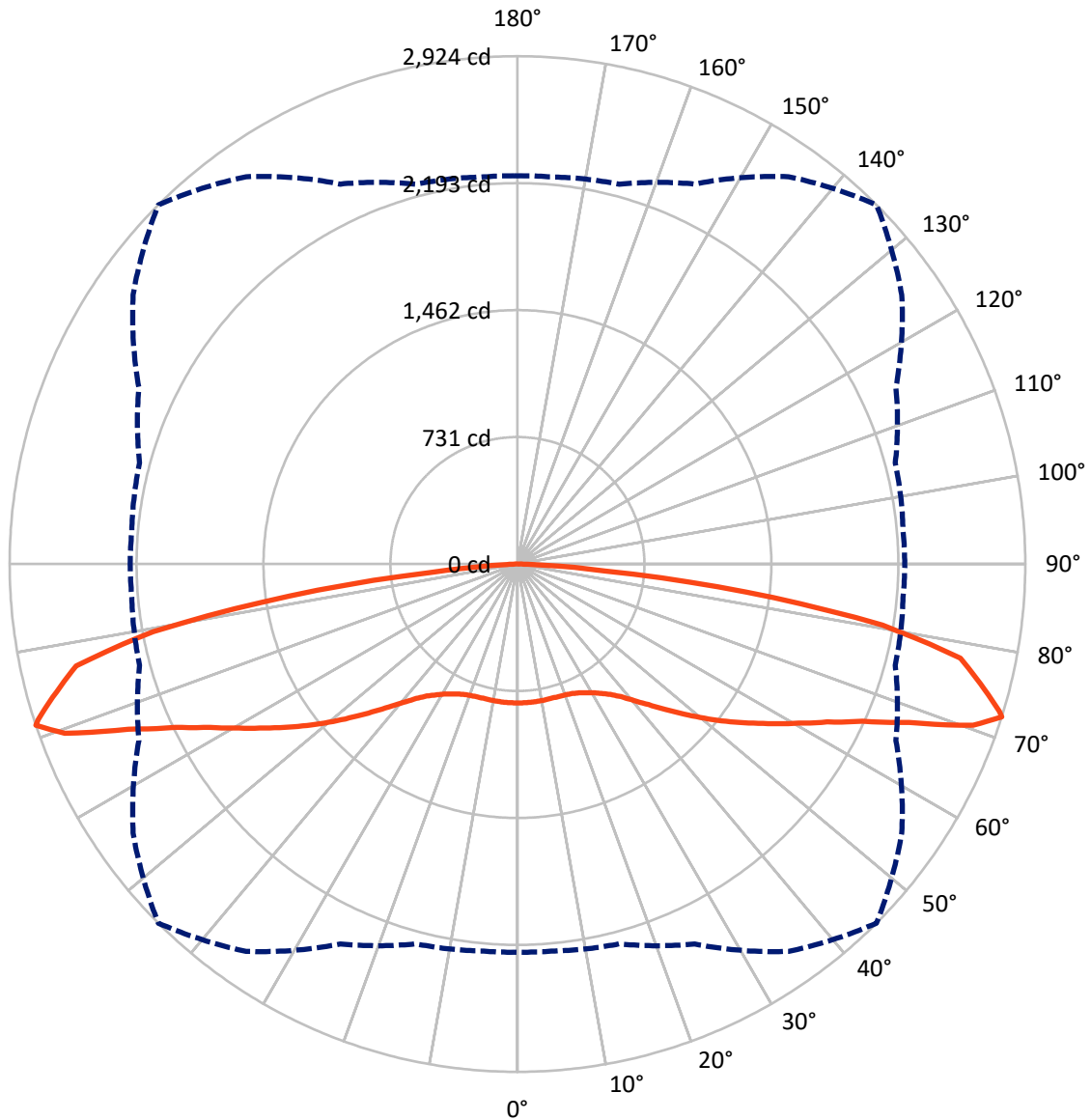


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - Non-Cutoff

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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	4236.3	0.0	4236.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4236.3	0.0	4236.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8472.5	0.0	8472.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.9
10°-20°	226.8	2.7
20°-30°	381.0	4.5
30°-40°	579.9	6.8
40°-50°	916.8	10.8
50°-60°	1400.3	16.5
60°-70°	2051.5	24.2
70°-80°	2330.6	27.5
80°-90°	509.1	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°	8472.5	100.0
0°-180°	8472.5	100.0



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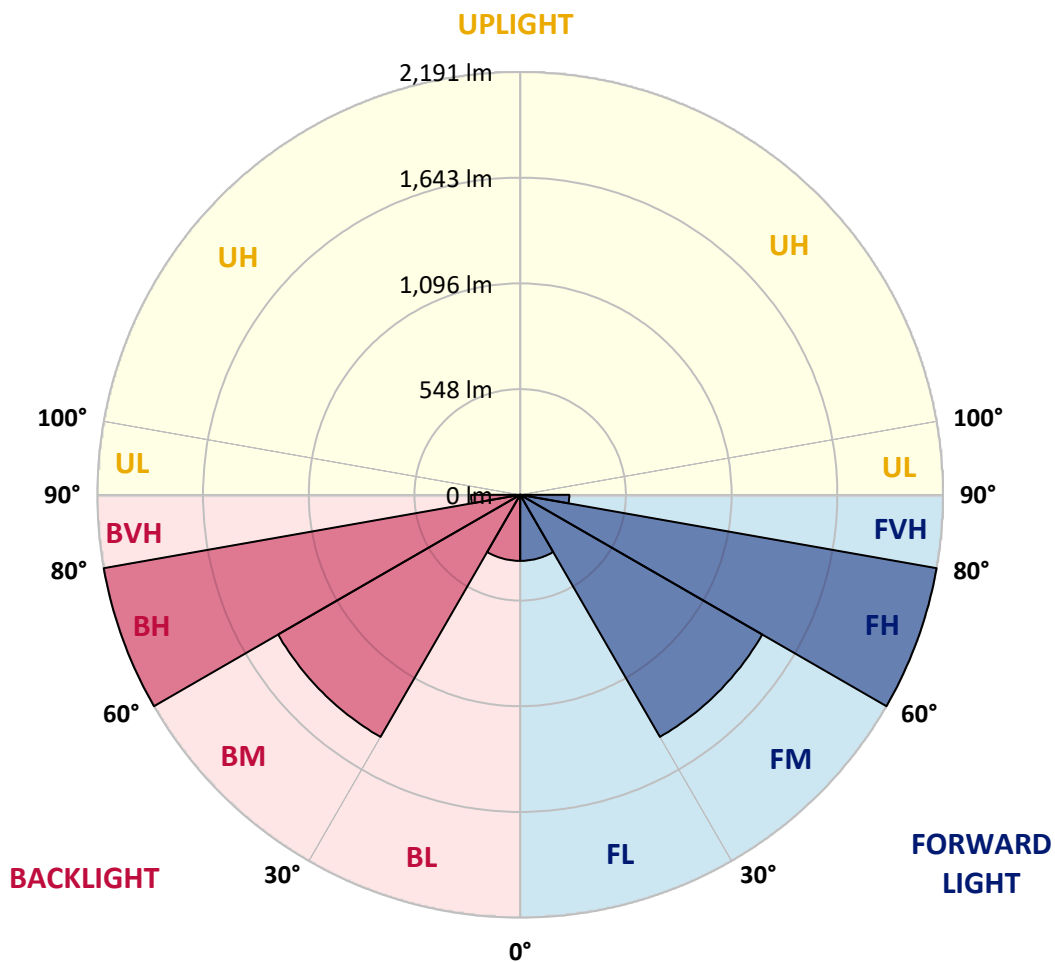
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.1	4.0			
FM	(30°-60°)	1448.5	17.1			
FH	(60°-80°)	2191.1	25.9			G2/5000
FVH	(80°-90°)	254.5	3.0			G3/500
BL	(0°-30°)	342.1	4.0	B1/500		
BM	(30°-60°)	1448.5	17.1	B2/2500		
BH	(60°-80°)	2191.1	25.9	B3/2500		G2/5000
BVH	(80°-90°)	254.5	3.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	800.1	800.1	800.1	800.1	800.1	800.1	800.1	800.1	800.1	800.1	800.1
2.5°	801.8	801.5	800.9	800.4	800.1	799.8	799.8	799.8	799.7	799.6	799.7
5°	801.8	801.5	801.1	800.6	800.2	799.8	799.8	799.8	799.7	799.6	799.8
7.5°	800.7	800.9	800.5	800.1	800.0	799.8	799.7	799.6	799.3	799.0	799.2
10°	801.0	802.0	801.2	800.4	800.1	799.8	799.3	798.8	798.6	798.4	798.2
12.5°	801.4	802.6	801.6	800.6	800.2	799.8	799.2	798.7	798.3	797.9	797.5
15°	803.1	803.9	803.1	802.2	801.4	800.6	800.1	799.6	798.7	797.9	797.5
17.5°	804.2	805.6	804.6	803.7	802.7	801.8	801.2	800.6	800.1	799.6	798.9
20°	806.1	807.5	806.7	805.8	805.3	804.8	804.3	804.0	803.5	803.1	802.2
22.5°	809.7	810.8	810.5	810.2	810.4	810.5	810.6	810.8	810.5	810.2	809.3
25°	817.1	817.0	817.6	818.2	819.0	819.8	820.5	821.2	821.6	822.0	820.8
27.5°	830.0	831.0	831.4	831.8	833.2	834.6	836.1	837.6	838.5	839.3	838.1
30°	846.7	846.7	847.6	848.6	850.9	853.2	855.1	857.0	858.6	860.1	859.2
32.5°	868.0	869.4	870.8	872.2	875.0	877.9	881.2	884.5	886.4	888.3	886.8
35°	900.6	902.3	903.6	905.0	908.0	911.0	914.8	918.4	920.1	921.8	920.8
37.5°	946.7	946.7	948.6	950.5	952.4	954.4	959.3	964.2	966.3	968.4	966.7
40°	1008.9	1009.2	1009.6	1010.0	1011.8	1013.6	1019.6	1025.6	1029.1	1032.7	1029.3
42.5°	1080.4	1083.4	1083.3	1083.2	1084.4	1085.6	1091.4	1097.1	1102.2	1107.2	1105.2
45°	1164.8	1164.2	1163.2	1162.0	1165.8	1169.4	1177.7	1185.9	1190.4	1194.9	1190.7
47.5°	1250.0	1249.2	1247.7	1246.2	1249.9	1253.6	1265.9	1278.2	1284.6	1291.1	1284.2
50°	1335.0	1338.2	1336.3	1334.4	1339.9	1345.4	1361.0	1376.6	1386.1	1395.5	1387.6
52.5°	1428.9	1431.4	1429.2	1427.0	1434.5	1442.1	1460.6	1479.1	1491.7	1504.3	1493.6
55°	1526.2	1523.2	1524.4	1525.6	1532.8	1539.9	1562.6	1585.4	1600.5	1615.6	1603.5
57.5°	1617.2	1618.2	1617.0	1615.8	1627.0	1638.3	1666.9	1695.6	1714.4	1733.4	1718.3
60°	1710.4	1710.6	1707.9	1705.2	1717.3	1729.5	1770.6	1811.7	1836.2	1860.8	1840.1
62.5°	1814.4	1814.2	1809.4	1804.6	1819.0	1833.4	1884.4	1935.3	1969.0	2002.7	1977.5
65°	1942.2	1938.8	1936.1	1933.4	1950.0	1966.6	2029.8	2093.1	2138.6	2184.1	2151.6
67.5°	2130.4	2127.9	2122.2	2116.4	2134.9	2153.4	2234.5	2315.6	2374.4	2433.2	2390.3
70°	2337.6	2332.9	2336.8	2340.8	2383.6	2426.3	2535.1	2643.9	2713.5	2783.0	2711.0
72°	2235.3	2237.2	2250.6	2263.9	2338.8	2413.7	2568.2	2722.8	2823.5	2924.2	2812.8
72.5°	2199.8	2201.4	2216.4	2231.4	2303.0	2374.6	2533.9	2693.2	2797.4	2901.7	2787.2
75°	2048.4	2052.8	2070.2	2087.6	2160.1	2232.6	2393.3	2554.0	2653.9	2753.8	2639.1
77.5°	1801.6	1815.2	1833.0	1850.6	1937.0	2023.2	2204.9	2386.6	2496.9	2607.1	2477.0
80°	1374.9	1370.0	1400.4	1430.8	1513.3	1595.8	1736.4	1876.9	2003.9	2130.9	1984.6
82.5°	534.3	546.1	609.1	672.2	758.6	845.0	971.0	1096.8	1211.2	1325.6	1203.8
85°	55.1	62.8	85.4	108.0	155.1	202.2	279.0	355.6	430.9	506.1	424.4
87.5°	22.2	24.4	31.4	38.4	40.2	41.9	50.7	59.5	59.1	58.6	57.8
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°	800.1	800.1	800.1	800.1	800.1	800.1	800.1	800.1
2.5°	799.8	800.1	800.4	800.4	800.3	800.8	801.2	800.6
5°	800.1	800.2	800.4	800.4	800.3	800.8	801.2	800.6
7.5°	799.3	799.3	799.2	799.7	800.1	800.2	800.4	800.1
10°	797.9	798.0	798.2	798.6	799.0	799.4	799.8	800.1
12.5°	797.1	797.2	797.3	797.8	798.2	798.6	799.0	799.5
15°	797.1	797.2	797.3	797.6	797.9	798.4	799.0	799.5
17.5°	798.2	797.9	797.6	797.9	798.2	798.9	799.6	800.1
20°	801.2	800.8	800.4	800.4	800.4	801.0	801.8	801.7
22.5°	808.3	807.0	805.6	805.3	805.1	805.2	805.3	805.6
25°	819.6	817.4	815.2	814.5	813.8	813.5	813.2	813.8
27.5°	836.8	834.4	831.8	830.4	828.9	828.0	827.2	827.5
30°	858.2	855.3	852.4	850.0	847.5	846.4	845.3	845.6
32.5°	885.3	881.9	878.4	875.2	871.9	870.4	868.9	869.1
35°	919.8	915.9	911.9	909.1	906.4	904.1	901.8	903.7
37.5°	965.0	961.4	957.6	955.9	954.1	952.0	950.0	950.2
40°	1025.9	1022.0	1018.2	1016.7	1015.2	1012.6	1010.0	1010.5
42.5°	1103.2	1097.4	1091.6	1088.9	1086.2	1084.9	1083.7	1084.5
45°	1186.4	1180.7	1174.9	1172.6	1170.3	1167.0	1163.7	1166.7
47.5°	1277.4	1270.1	1262.8	1258.8	1254.6	1255.8	1256.8	1254.4
50°	1379.6	1367.4	1355.2	1350.4	1345.6	1345.6	1345.6	1345.4
52.5°	1483.0	1466.1	1449.2	1445.1	1441.0	1440.0	1439.1	1438.0
55°	1591.4	1570.8	1550.1	1542.4	1534.7	1535.8	1536.9	1539.9
57.5°	1703.2	1676.0	1648.7	1639.9	1631.2	1631.8	1632.6	1637.5
60°	1819.4	1784.2	1749.0	1739.2	1729.5	1732.1	1734.8	1737.7
62.5°	1952.3	1909.7	1867.0	1854.0	1841.0	1844.3	1847.6	1855.6
65°	2119.1	2066.0	2012.8	1999.3	1985.7	1987.2	1988.8	2002.4
67.5°	2347.4	2276.5	2205.7	2193.2	2180.8	2183.0	2185.2	2207.4
70°	2639.0	2534.0	2429.1	2377.4	2325.8	2317.6	2309.6	2321.4
72°	2701.4	2553.2	2405.0	2328.8	2252.6	2240.7	2228.8	2229.9
72.5°	2672.6	2522.8	2372.9	2298.9	2225.0	2215.2	2205.4	2203.5
75°	2524.4	2377.8	2231.2	2154.8	2078.4	2059.8	2041.4	2041.3
77.5°	2346.8	2162.0	1977.2	1894.8	1812.2	1793.0	1773.6	1758.6
80°	1838.3	1672.6	1507.0	1423.3	1339.6	1308.6	1277.7	1259.3
82.5°	1082.0	929.7	777.3	671.0	564.7	532.8	500.9	456.5
85°	342.8	263.8	184.7	144.1	103.6	83.7	63.8	55.9
87.5°	57.0	46.3	35.6	34.4	33.2	26.0	18.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)