

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: P143704

Luminaire Tested: **LDRC-5MQ-F03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143704
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-5MQ-F03-E-7030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7029.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

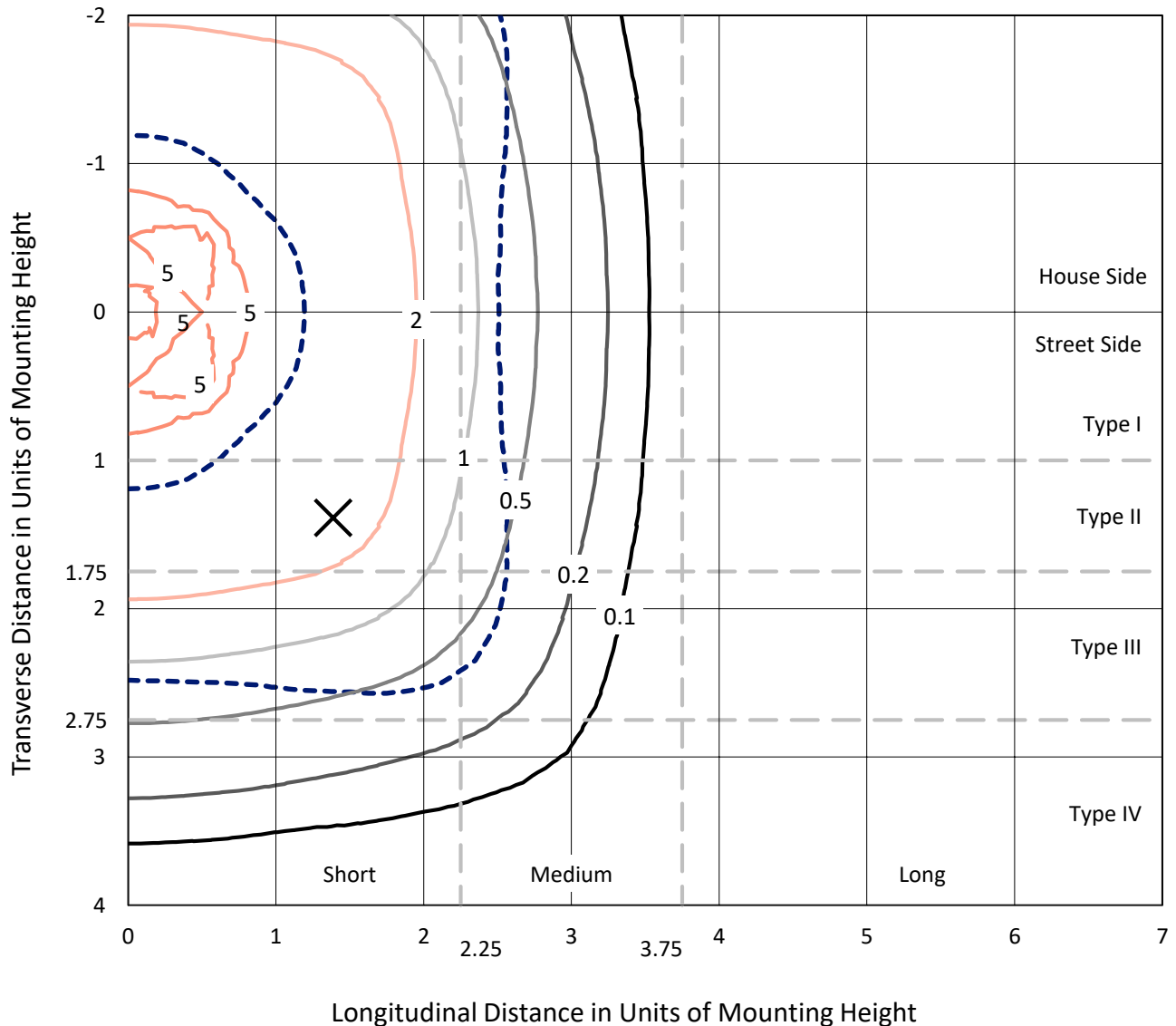


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Iso-Footcandle Lines of Horizontal Illumination

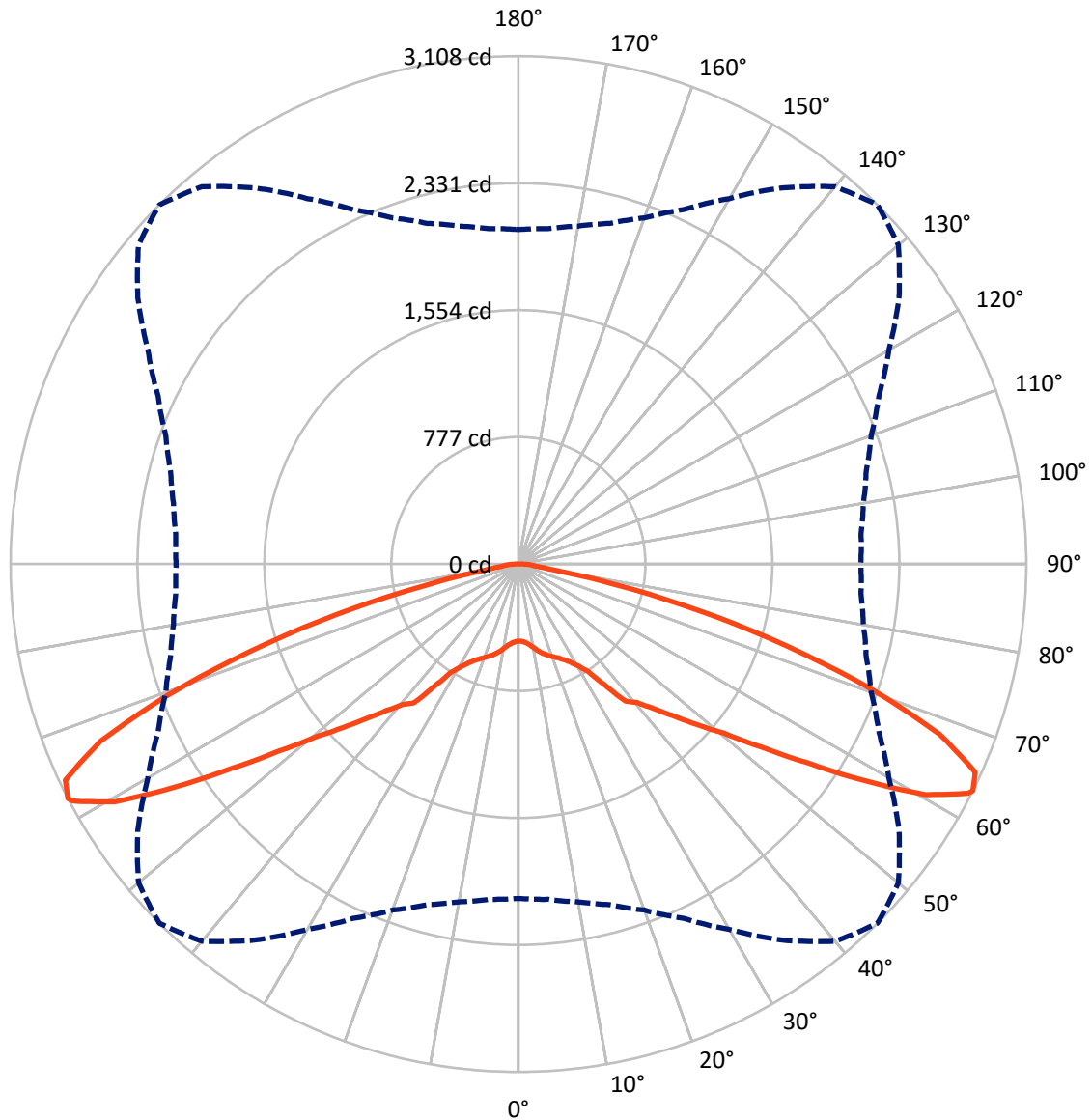
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3514.8	0.0	3514.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3514.8	0.0	3514.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7029.5	0.0	7029.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.7
10°-20°	162.3	2.3
20°-30°	310.0	4.4
30°-40°	590.5	8.4
40°-50°	1016.9	14.5
50°-60°	1817.1	25.8
60°-70°	2213.3	31.5
70°-80°	788.4	11.2
80°-90°	83.6	1.2
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°	7029.5	100.0
0°-180°	7029.5	100.0



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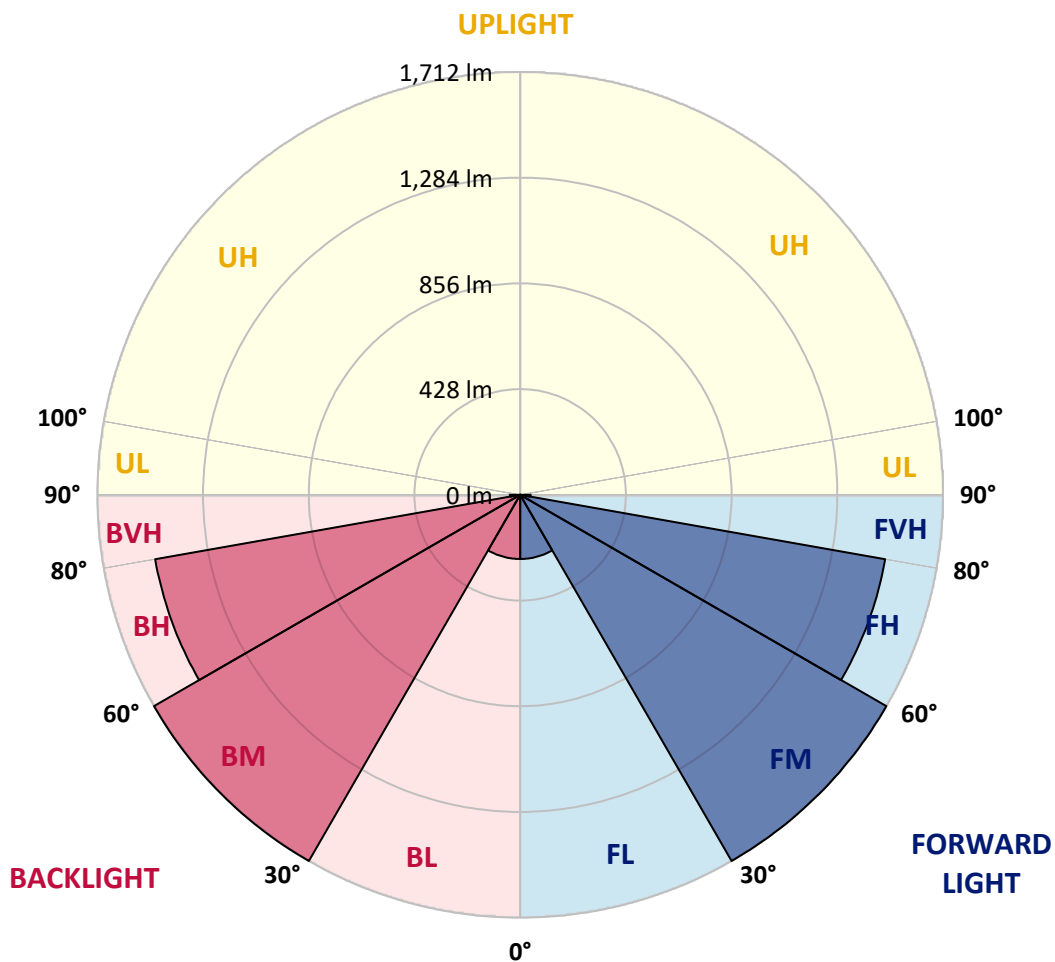
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.9	3.7			
FM	(30°-60°)	1712.2	24.4			
FH	(60°-80°)	1500.8	21.4			G1/1800
FVH	(80°-90°)	41.8	0.6			G1/100
BL	(0°-30°)	259.9	3.7	B1/500		
BM	(30°-60°)	1712.2	24.4	B2/2500		
BH	(60°-80°)	1500.8	21.4	B3/2500		G1/1800
BVH	(80°-90°)	41.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8
2.5°	475.5	475.0	475.5	474.6	474.6	474.1	474.1	474.1	473.2	474.1	473.2
5°	485.4	485.0	485.4	484.5	484.5	483.6	483.6	483.6	482.7	483.6	483.2
7.5°	502.6	503.5	502.6	501.7	501.7	500.8	500.4	500.4	499.9	499.4	500.4
10°	526.6	527.5	526.1	525.2	524.8	524.3	523.4	523.0	523.0	521.2	521.6
12.5°	551.9	551.9	550.6	550.1	550.1	549.2	547.4	546.9	546.9	546.0	545.1
15°	574.5	574.5	573.6	571.8	572.3	570.9	569.6	568.7	568.7	567.8	566.9
17.5°	595.4	595.4	594.0	592.2	591.3	590.8	589.0	588.1	588.1	587.2	586.3
20°	616.2	617.1	614.8	613.0	611.2	609.4	607.6	606.7	605.3	605.8	605.3
22.5°	641.0	641.5	637.9	635.6	632.0	629.7	627.0	626.1	624.3	624.3	625.2
25°	672.7	672.3	668.2	664.1	660.0	655.5	651.5	650.5	648.7	648.3	648.7
27.5°	714.3	713.9	708.9	703.5	698.0	691.3	686.3	683.6	682.2	680.4	681.3
30°	765.5	766.4	760.5	754.1	747.4	739.2	732.9	729.3	726.5	724.7	725.6
32.5°	869.5	868.6	859.6	846.0	831.5	812.5	797.1	790.8	785.8	784.0	785.4
35°	974.0	973.1	969.5	965.4	961.8	949.6	938.3	925.1	914.3	907.5	909.3
37.5°	1023.3	1023.3	1020.6	1019.7	1019.7	1026.9	1036.0	1052.3	1064.9	1065.8	1061.8
40°	1100.2	1100.2	1095.7	1093.4	1092.1	1094.3	1100.2	1106.1	1112.4	1113.8	1109.3
42.5°	1190.7	1186.6	1183.5	1178.9	1178.5	1180.8	1187.1	1194.3	1200.7	1206.1	1196.6
45°	1288.4	1284.8	1281.6	1278.9	1280.7	1286.6	1295.2	1307.9	1316.9	1325.1	1317.4
47.5°	1397.5	1389.8	1392.9	1390.2	1394.7	1406.5	1421.9	1440.9	1450.4	1464.9	1452.6
50°	1533.2	1535.0	1533.2	1533.2	1538.6	1554.0	1576.6	1602.4	1618.7	1626.8	1619.6
52.5°	1734.9	1729.5	1717.3	1720.9	1728.2	1752.6	1782.0	1818.2	1839.0	1858.4	1835.8
55°	1955.7	1956.6	1954.8	1959.8	1973.8	1998.7	2035.8	2090.5	2116.8	2150.7	2123.5
57.5°	2138.5	2144.8	2155.7	2170.6	2200.9	2242.5	2315.4	2399.1	2468.7	2505.4	2462.8
60°	2197.7	2204.1	2230.3	2271.9	2328.9	2414.0	2532.1	2675.5	2800.8	2865.9	2810.3
62.5°	2083.7	2095.5	2134.4	2191.9	2286.0	2419.0	2594.5	2806.7	2999.8	3089.0	3021.6
63°	2046.6	2059.8	2099.6	2157.9	2253.8	2392.7	2582.3	2809.4	3013.9	3108.0	3035.1
65°	1882.0	1890.6	1932.6	1999.1	2105.9	2250.7	2461.5	2730.2	2963.2	3072.2	2994.9
67.5°	1622.7	1634.1	1672.5	1730.0	1833.6	1986.9	2194.1	2461.9	2691.3	2778.6	2712.6
70°	1301.5	1314.2	1345.9	1399.3	1480.7	1622.7	1800.1	2050.3	2222.6	2290.9	2220.4
72.5°	914.7	920.2	943.2	999.3	1060.4	1173.5	1314.2	1508.7	1674.3	1719.1	1651.2
75°	387.3	387.7	418.0	453.8	530.2	642.9	765.5	932.8	1081.7	1151.3	1065.4
77.5°	124.0	125.3	133.9	147.0	172.4	222.6	313.1	404.9	541.5	607.6	527.0
80°	103.6	105.4	109.0	111.7	113.6	116.3	126.7	141.1	177.8	206.7	166.9
82.5°	89.1	92.3	100.4	103.6	105.4	106.3	107.7	107.2	105.0	104.1	104.5
85°	67.9	75.6	84.6	91.8	92.7	93.2	95.9	96.8	89.6	82.3	89.6
87.5°	29.4	38.0	58.4	64.7	63.3	58.8	62.9	66.5	60.6	44.3	59.3
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°	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8
2.5°	473.7	474.6	474.6	474.6	474.6	475.0	475.5	475.0
5°	483.6	484.5	484.1	484.5	484.5	485.0	485.4	485.0
7.5°	500.8	500.8	500.8	501.7	501.7	502.6	502.6	502.6
10°	522.1	521.6	521.6	522.5	523.4	523.9	524.8	524.3
12.5°	545.1	544.2	544.7	545.6	546.5	546.9	547.9	547.4
15°	565.9	565.5	565.5	566.9	567.3	567.8	569.6	569.6
17.5°	585.9	585.9	585.9	587.7	588.1	589.9	591.3	591.3
20°	605.8	605.8	605.8	607.6	608.9	611.6	614.4	613.9
22.5°	626.1	626.6	627.5	629.3	632.4	636.5	638.8	638.8
25°	651.5	653.3	655.1	657.8	662.3	667.7	671.4	672.7
27.5°	684.0	688.1	692.6	696.7	701.7	708.5	713.4	714.3
30°	728.4	734.2	741.5	746.9	753.2	760.9	766.8	770.0
32.5°	791.2	805.7	815.2	834.7	846.4	859.6	870.4	874.9
35°	920.6	935.1	947.8	960.9	963.6	968.1	974.0	975.4
37.5°	1048.7	1036.9	1025.6	1025.1	1022.0	1022.9	1024.7	1026.9
40°	1104.3	1100.7	1094.8	1097.1	1097.5	1097.5	1101.1	1101.6
42.5°	1193.9	1185.3	1178.5	1183.9	1184.8	1185.7	1189.3	1193.4
45°	1307.9	1294.8	1286.2	1283.0	1286.2	1285.3	1290.2	1291.1
47.5°	1438.2	1421.0	1401.5	1395.2	1393.4	1389.3	1397.9	1397.0
50°	1597.9	1570.3	1546.7	1537.7	1533.2	1530.9	1533.2	1533.2
52.5°	1800.1	1772.5	1740.4	1730.0	1726.3	1731.3	1724.1	1731.8
55°	2078.3	2033.5	1989.6	1975.6	1973.4	1971.1	1972.0	1975.2
57.5°	2391.4	2311.7	2252.9	2218.6	2196.4	2185.5	2173.8	2172.0
60°	2693.6	2548.8	2437.1	2361.1	2307.2	2266.5	2245.7	2238.5
62.5°	2839.2	2627.5	2453.8	2324.4	2244.3	2177.8	2141.2	2131.7
63°	2843.3	2617.6	2433.4	2296.8	2203.6	2143.9	2105.0	2095.0
65°	2767.8	2510.8	2295.0	2144.8	2046.2	1983.8	1935.8	1925.4
67.5°	2492.7	2243.4	2022.7	1870.2	1763.4	1713.2	1660.3	1658.9
70°	2045.7	1823.2	1637.2	1497.0	1407.9	1358.1	1304.3	1305.6
72.5°	1495.6	1297.9	1169.9	1060.4	966.3	919.3	868.6	873.6
75°	900.3	723.8	608.5	513.5	416.7	358.8	319.8	297.7
77.5°	385.0	263.3	189.1	150.2	126.7	117.2	112.6	111.3
80°	133.9	118.5	111.7	109.9	108.6	106.8	103.6	100.4
82.5°	108.6	108.6	105.0	104.5	100.4	97.3	89.1	85.1
85°	96.4	94.6	91.4	90.0	89.1	82.3	71.9	66.5
87.5°	63.8	59.3	56.5	57.9	56.1	50.2	30.8	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)