

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: P144234

Luminaire Tested: **LDRL-5XQ-F02-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144234
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-F02-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4662.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 55
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

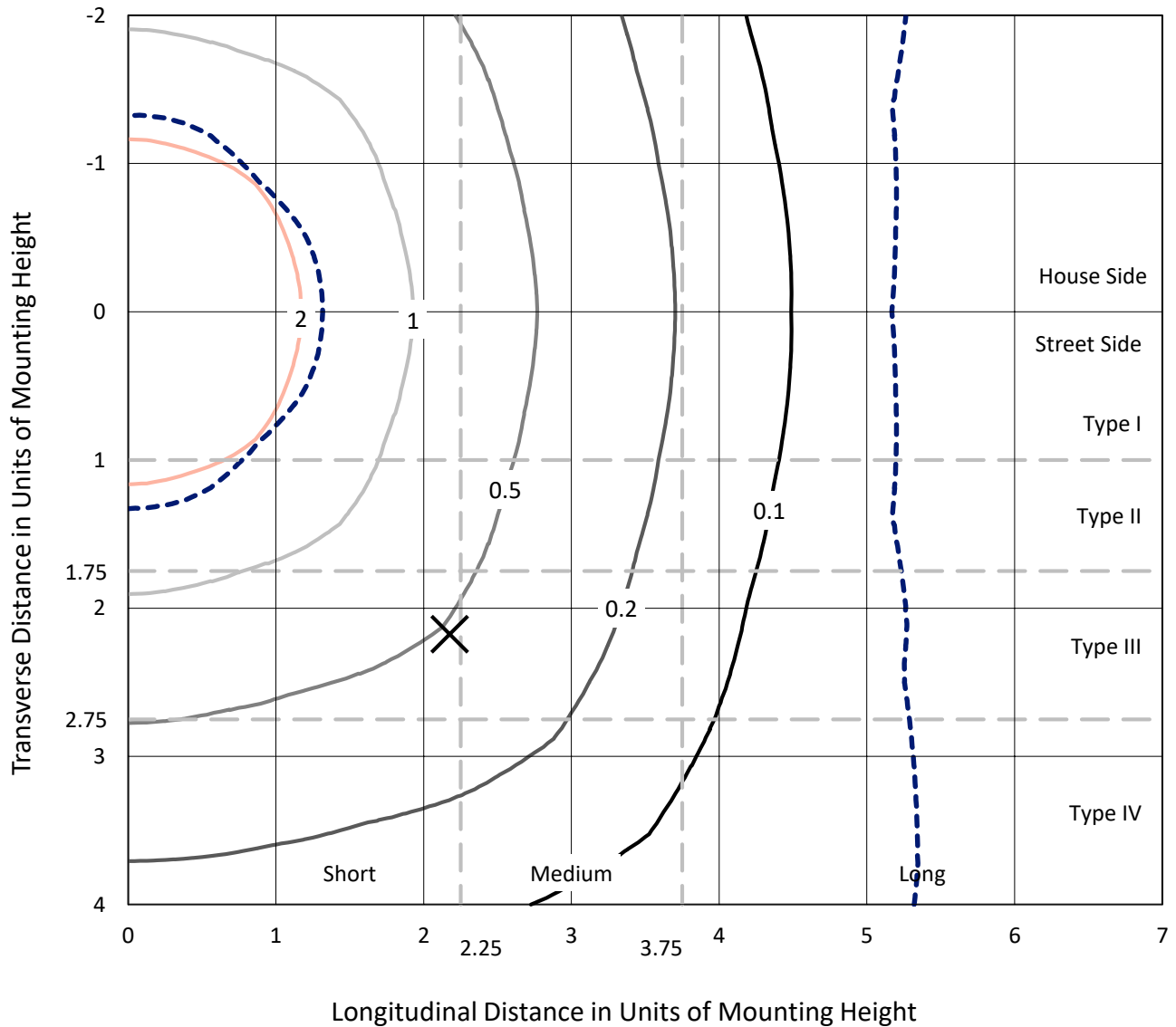


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

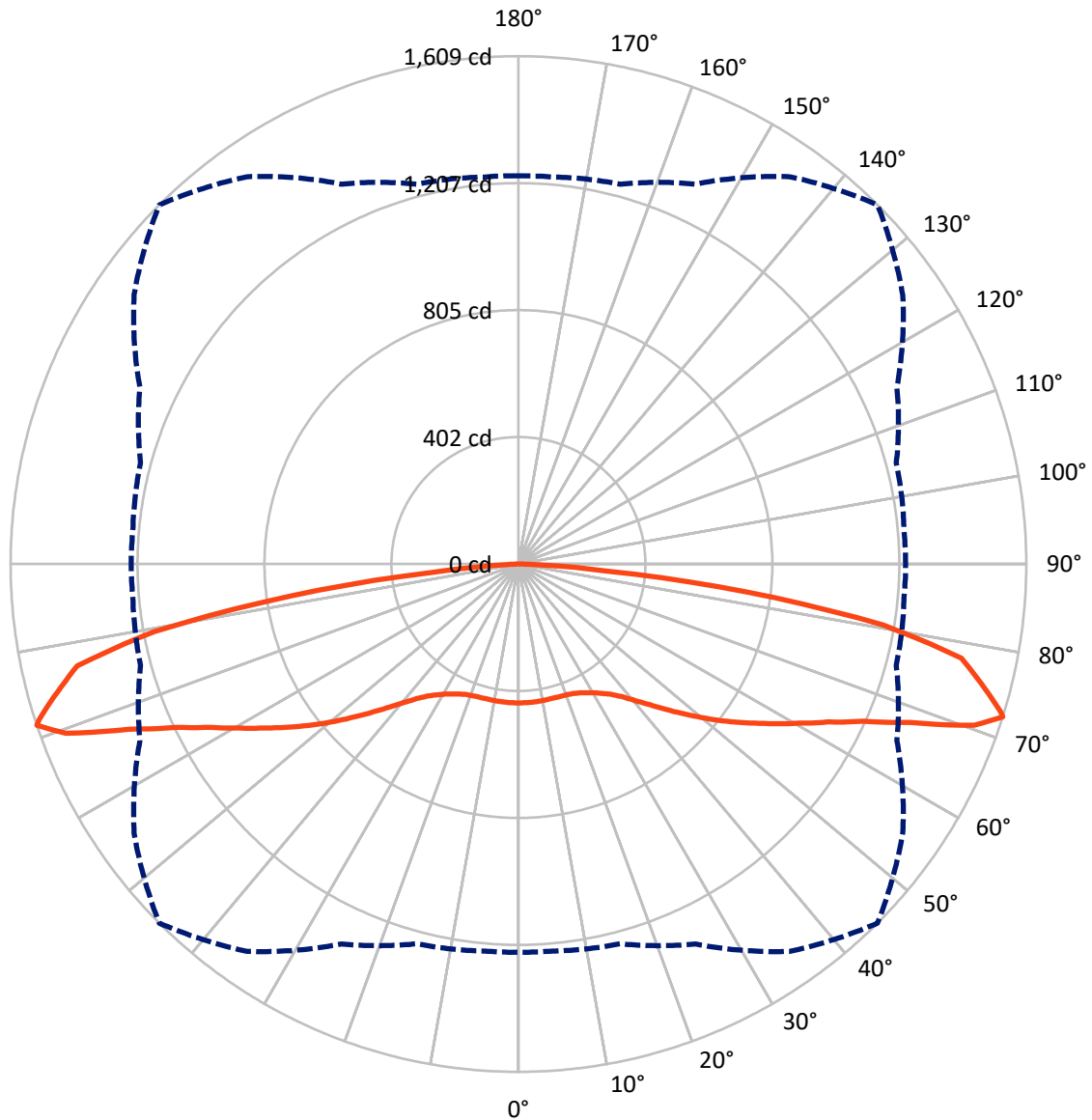


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

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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	2331.4	0.0	2331.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2331.4	0.0	2331.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4662.8	0.0	4662.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.9
10°-20°	124.8	2.7
20°-30°	209.7	4.5
30°-40°	319.2	6.8
40°-50°	504.6	10.8
50°-60°	770.7	16.5
60°-70°	1129.0	24.2
70°-80°	1282.7	27.5
80°-90°	280.2	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°	4662.8	100.0
0°-180°	4662.8	100.0



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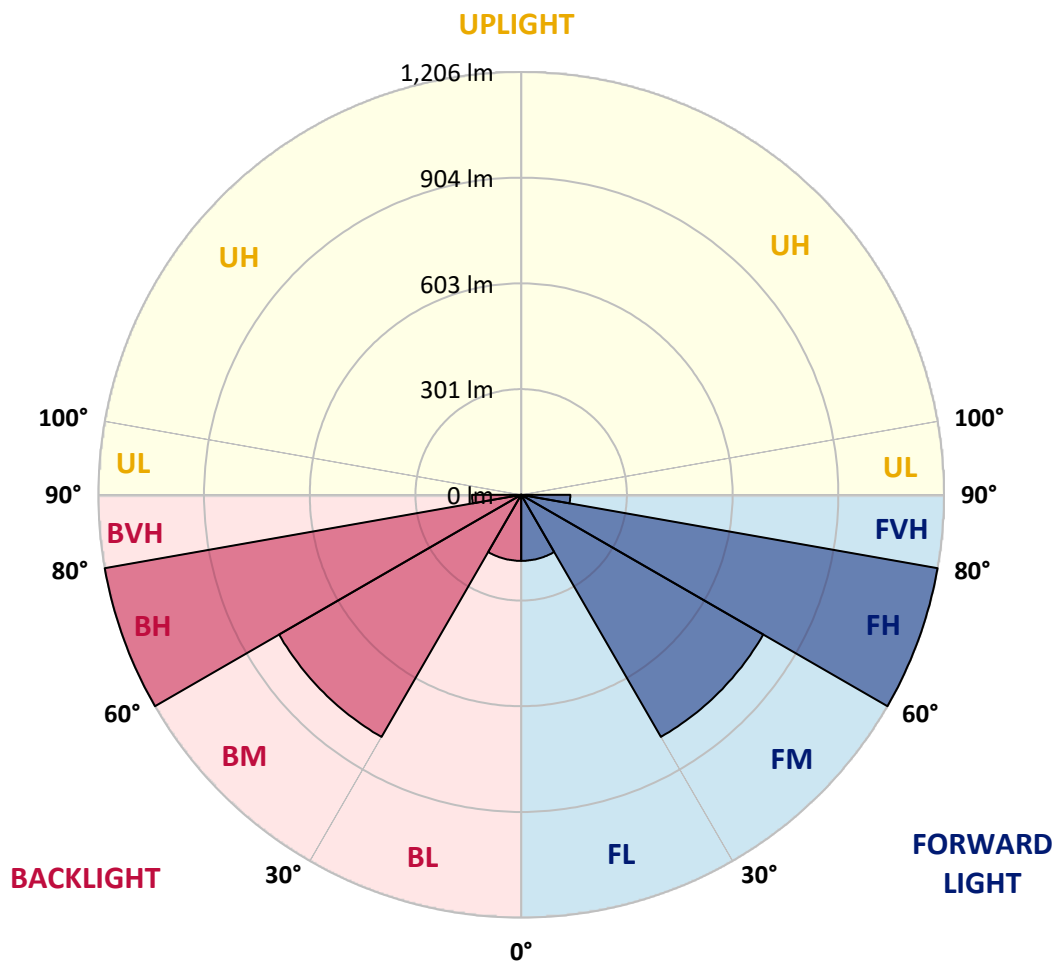
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.3	4.0			
FM	(30°-60°)	797.2	17.1			
FH	(60°-80°)	1205.8	25.9			G1/1800
FVH	(80°-90°)	140.1	3.0			G2/225
BL	(0°-30°)	188.3	4.0	B1/500		
BM	(30°-60°)	797.2	17.1	B1/1000		
BH	(60°-80°)	1205.8	25.9	B3/2500		G1/1800
BVH	(80°-90°)	140.1	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°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	441.2	441.1	440.8	440.4	440.3	440.2	440.2	440.2	440.1	440.0	440.1
5°	441.2	441.1	440.8	440.6	440.4	440.2	440.2	440.2	440.1	440.0	440.2
7.5°	440.6	440.8	440.6	440.4	440.2	440.2	440.1	440.0	439.8	439.7	439.8
10°	440.8	441.4	441.0	440.5	440.4	440.2	439.9	439.6	439.5	439.4	439.2
12.5°	441.1	441.7	441.2	440.6	440.4	440.2	439.9	439.6	439.4	439.1	438.9
15°	442.0	442.4	442.0	441.6	441.1	440.6	440.4	440.0	439.6	439.2	438.9
17.5°	442.6	443.4	442.8	442.3	441.8	441.2	441.0	440.6	440.4	440.0	439.7
20°	443.6	444.4	444.0	443.5	443.2	442.9	442.7	442.4	442.2	442.0	441.5
22.5°	445.6	446.2	446.0	445.9	446.0	446.0	446.1	446.2	446.1	445.9	445.4
25°	449.6	449.6	450.0	450.2	450.7	451.2	451.6	452.0	452.2	452.4	451.7
27.5°	456.8	457.4	457.6	457.8	458.6	459.4	460.2	461.0	461.4	461.9	461.2
30°	466.0	466.0	466.5	467.0	468.3	469.6	470.6	471.7	472.5	473.4	472.8
32.5°	477.8	478.5	479.2	480.0	481.6	483.2	485.0	486.8	487.8	488.8	488.0
35°	495.7	496.6	497.4	498.1	499.7	501.4	503.4	505.4	506.4	507.2	506.7
37.5°	521.0	521.0	522.1	523.2	524.2	525.2	528.0	530.7	531.8	533.0	532.1
40°	555.2	555.4	555.6	555.8	556.8	557.8	561.1	564.4	566.4	568.3	566.5
42.5°	594.6	596.2	596.2	596.1	596.8	597.5	600.7	603.8	606.6	609.3	608.2
45°	641.0	640.8	640.2	639.6	641.6	643.6	648.2	652.7	655.2	657.7	655.3
47.5°	688.0	687.5	686.7	685.8	687.9	689.9	696.7	703.4	707.0	710.6	706.8
50°	734.7	736.5	735.4	734.4	737.4	740.4	749.0	757.6	762.8	768.0	763.6
52.5°	786.4	787.8	786.6	785.4	789.5	793.6	803.8	814.0	821.0	827.9	822.0
55°	840.0	838.3	839.0	839.6	843.6	847.4	860.0	872.6	880.8	889.1	882.5
57.5°	890.0	890.6	889.9	889.2	895.4	901.6	917.4	933.2	943.6	954.0	945.6
60°	941.3	941.4	940.0	938.4	945.2	951.8	974.4	997.0	1010.6	1024.1	1012.7
62.5°	998.6	998.4	995.8	993.2	1001.1	1009.0	1037.0	1065.1	1083.6	1102.2	1088.3
65°	1068.9	1067.0	1065.5	1064.0	1073.2	1082.3	1117.1	1151.9	1177.0	1202.0	1184.1
67.5°	1172.4	1171.1	1167.9	1164.8	1174.9	1185.1	1229.8	1274.4	1306.8	1339.1	1315.5
70°	1286.5	1283.9	1286.1	1288.2	1311.8	1335.4	1395.2	1455.1	1493.4	1531.6	1492.0
72°	1230.2	1231.2	1238.6	1245.9	1287.1	1328.4	1413.4	1498.5	1553.9	1609.4	1548.1
72.5°	1210.6	1211.5	1219.8	1228.1	1267.5	1306.8	1394.5	1482.2	1539.6	1597.0	1533.9
75°	1127.4	1129.8	1139.3	1148.9	1188.8	1228.7	1317.1	1405.6	1460.6	1515.6	1452.4
77.5°	991.5	999.0	1008.8	1018.5	1066.0	1113.5	1213.5	1313.5	1374.2	1434.8	1363.2
80°	756.7	754.0	770.7	787.4	832.8	878.2	955.6	1032.9	1102.8	1172.8	1092.2
82.5°	294.0	300.6	335.2	369.9	417.5	465.0	534.4	603.6	666.6	729.6	662.6
85°	30.4	34.6	47.0	59.4	85.4	111.3	153.5	195.8	237.2	278.6	233.6
87.5°	12.2	13.4	17.3	21.1	22.1	23.0	27.9	32.7	32.5	32.2	31.8
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°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	440.2	440.3	440.4	440.4	440.4	440.7	440.9	440.6
5°	440.3	440.4	440.4	440.4	440.4	440.7	440.9	440.6
7.5°	439.8	439.8	439.8	440.1	440.3	440.4	440.4	440.3
10°	439.1	439.2	439.2	439.5	439.7	439.9	440.2	440.3
12.5°	438.6	438.7	438.8	439.0	439.2	439.5	439.7	440.0
15°	438.6	438.7	438.8	439.0	439.1	439.4	439.7	440.0
17.5°	439.3	439.1	439.0	439.1	439.2	439.6	440.0	440.3
20°	441.0	440.7	440.5	440.5	440.4	440.8	441.2	441.2
22.5°	444.8	444.1	443.4	443.2	443.0	443.1	443.2	443.3
25°	451.0	449.8	448.6	448.3	447.9	447.8	447.6	447.9
27.5°	460.6	459.2	457.8	457.0	456.2	455.7	455.2	455.4
30°	472.3	470.7	469.2	467.8	466.4	465.8	465.2	465.4
32.5°	487.2	485.3	483.4	481.6	479.8	479.0	478.2	478.3
35°	506.2	504.0	501.8	500.4	498.8	497.6	496.2	497.3
37.5°	531.2	529.1	527.0	526.0	525.1	524.0	522.8	523.0
40°	564.6	562.5	560.3	559.5	558.7	557.3	555.8	556.1
42.5°	607.2	604.0	600.8	599.2	597.8	597.1	596.4	596.9
45°	653.0	649.8	646.6	645.4	644.0	642.2	640.4	642.1
47.5°	703.0	699.0	695.0	692.8	690.5	691.1	691.8	690.4
50°	759.2	752.6	745.8	743.2	740.6	740.6	740.6	740.4
52.5°	816.1	806.8	797.6	795.3	793.1	792.5	792.0	791.4
55°	875.8	864.4	853.0	848.8	844.6	845.2	845.8	847.5
57.5°	937.4	922.4	907.4	902.5	897.7	898.1	898.5	901.2
60°	1001.3	981.9	962.6	957.2	951.8	953.3	954.7	956.4
62.5°	1074.4	1051.0	1027.6	1020.4	1013.2	1015.0	1016.8	1021.2
65°	1166.2	1137.0	1107.8	1100.3	1092.8	1093.6	1094.5	1102.0
67.5°	1291.9	1252.9	1213.9	1207.0	1200.2	1201.4	1202.6	1214.8
70°	1452.4	1394.6	1336.8	1308.4	1279.9	1275.5	1271.0	1277.6
72°	1486.8	1405.2	1323.6	1281.7	1239.8	1233.2	1226.6	1227.2
72.5°	1470.9	1388.4	1305.9	1265.2	1224.5	1219.1	1213.8	1212.7
75°	1389.3	1308.6	1228.0	1185.9	1143.8	1133.6	1123.4	1123.5
77.5°	1291.6	1189.9	1088.2	1042.8	997.4	986.8	976.2	967.8
80°	1011.7	920.6	829.4	783.3	737.2	720.2	703.2	693.1
82.5°	595.5	511.6	427.8	369.3	310.8	293.2	275.6	251.2
85°	188.6	145.1	101.6	79.3	57.0	46.1	35.2	30.8
87.5°	31.4	25.5	19.6	18.9	18.2	14.4	10.4	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)