

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: P143993

Luminaire Tested: **LDRC-5WQ-F02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143993
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-5WQ-F02-E-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4271.8 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

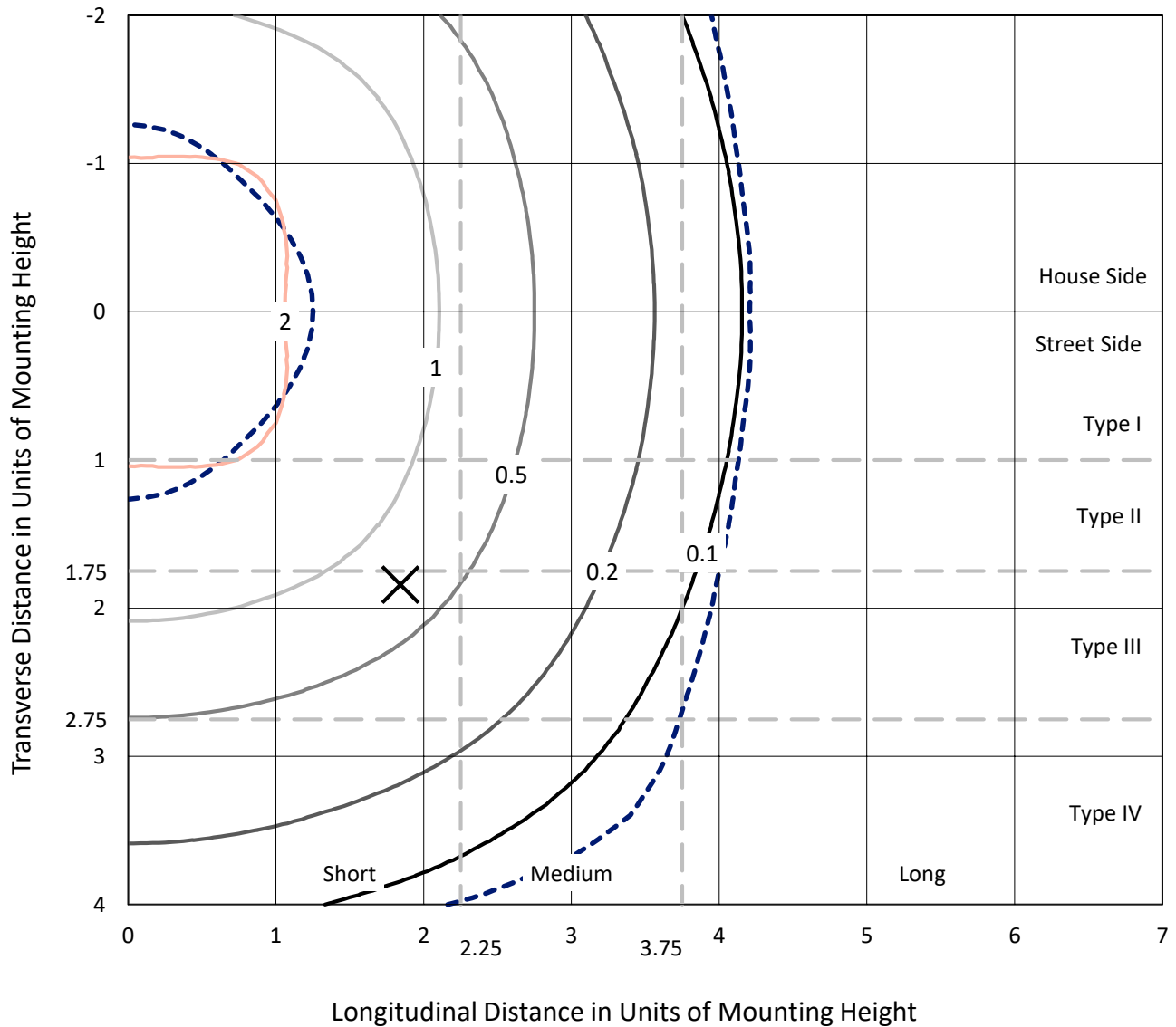
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

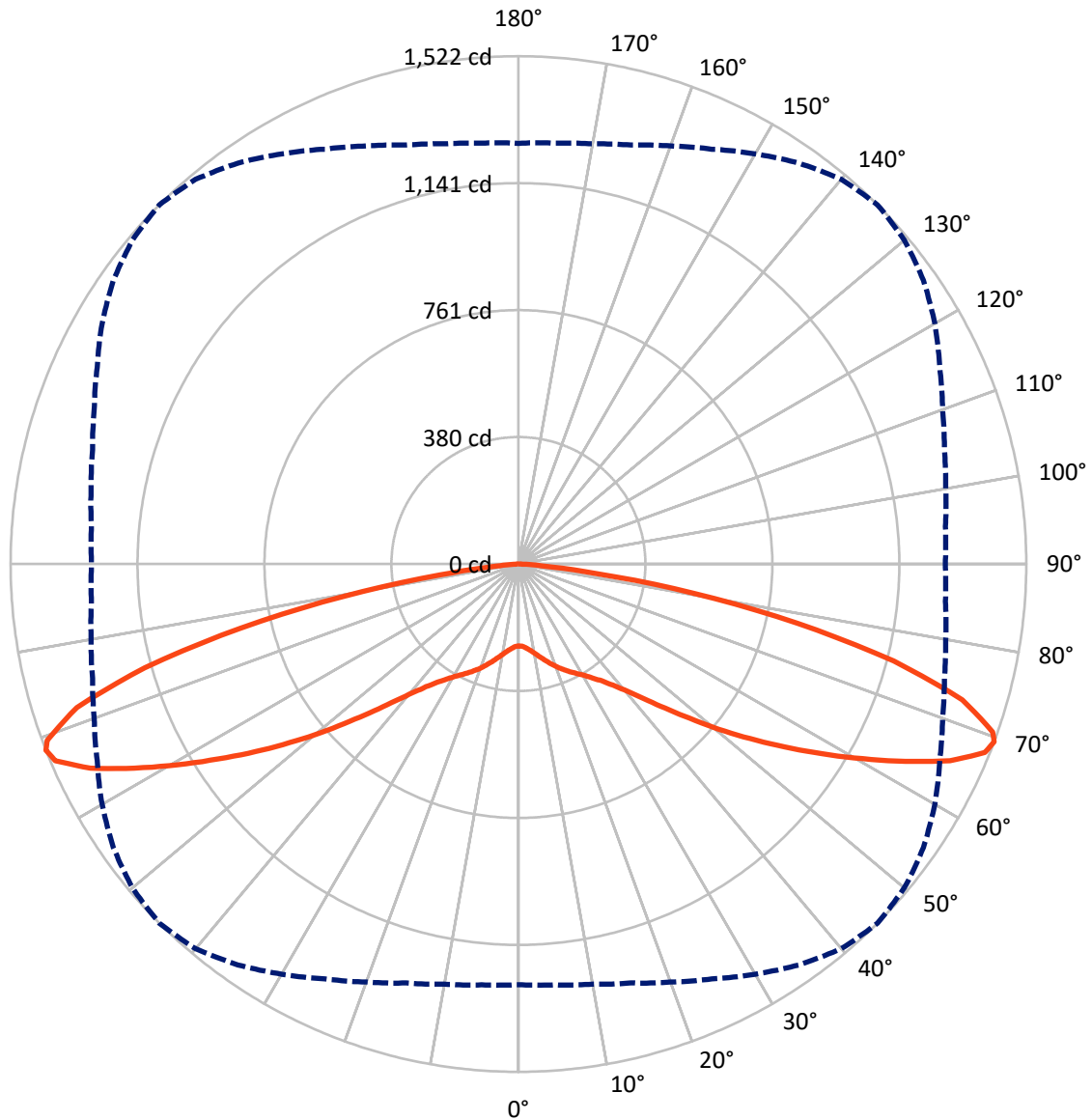
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.9	0.0	2135.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2135.9	0.0	2135.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4271.8	0.0	4271.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	0.6
10°-20°	85.4	2.0
20°-30°	164.5	3.9
30°-40°	269.6	6.3
40°-50°	468.9	11.0
50°-60°	832.9	19.5
60°-70°	1293.1	30.3
70°-80°	1030.2	24.1
80°-90°	102.4	2.4
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°	4271.8	100.0
0°-180°	4271.8	100.0



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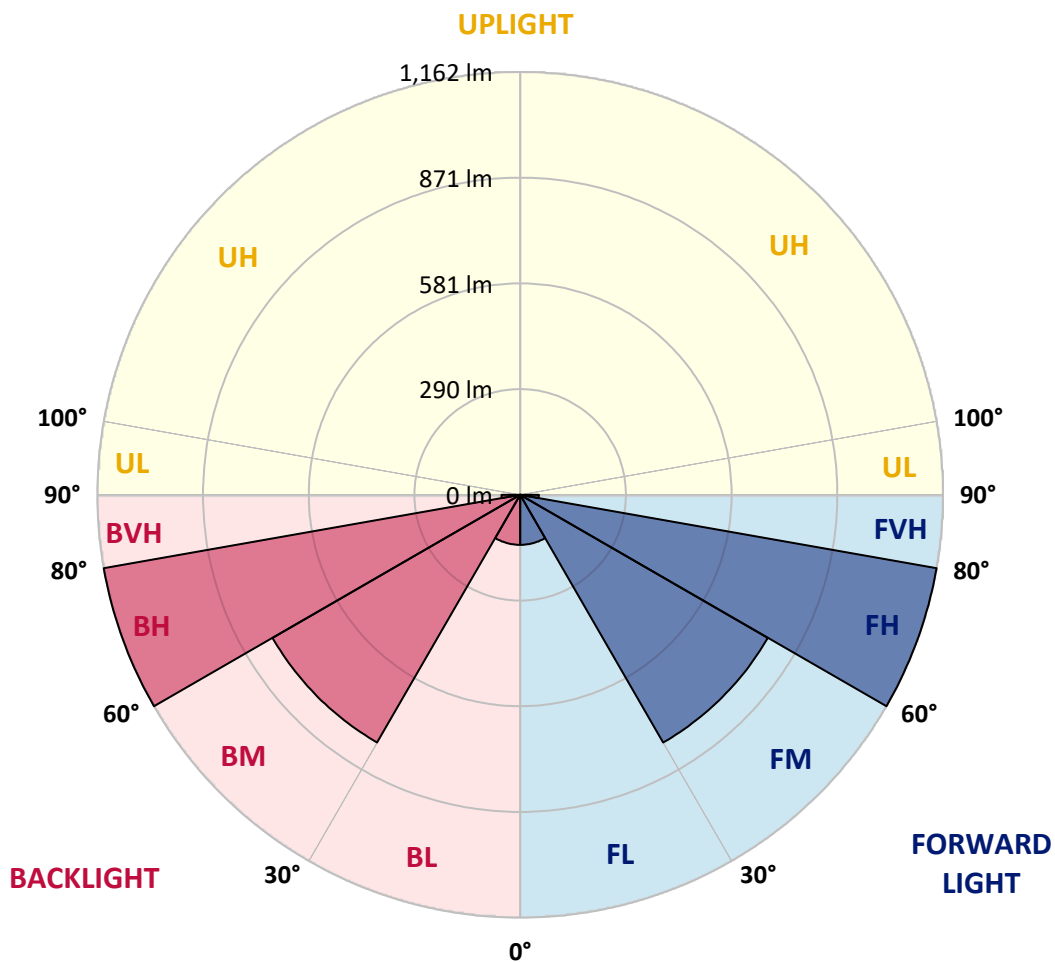
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.3	3.2			
FM	(30°-60°)	785.7	18.4			
FH	(60°-80°)	1161.7	27.2			G1/1800
FVH	(80°-90°)	51.2	1.2			G1/100
BL	(0°-30°)	137.3	3.2	B1/500		
BM	(30°-60°)	785.7	18.4	B1/1000		
BH	(60°-80°)	1161.7	27.2	B3/2500		G1/1800
BVH	(80°-90°)	51.2	1.2			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°	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5
2.5°	247.5	247.5	247.5	247.2	247.2	246.9	247.2	246.9	246.9	246.9	246.9
5°	253.9	253.3	253.3	253.1	253.6	253.6	253.1	253.3	253.1	253.3	253.3
7.5°	262.0	262.0	262.0	261.7	262.3	262.0	261.7	262.0	262.0	261.7	261.7
10°	272.0	272.3	272.0	272.0	272.8	272.6	272.8	272.8	273.1	272.8	272.8
12.5°	283.7	283.7	284.0	284.3	284.5	284.8	285.7	285.4	285.9	285.4	285.4
15°	297.4	297.9	297.4	297.4	298.2	298.8	299.0	299.0	299.6	299.3	298.8
17.5°	311.9	312.1	311.9	311.6	312.4	313.3	313.5	313.5	314.4	313.8	313.8
20°	326.6	326.9	326.4	326.1	327.2	327.2	327.7	328.0	328.9	329.1	328.3
22.5°	340.3	340.6	340.3	340.0	341.1	341.1	342.0	342.2	343.4	343.1	343.1
25°	353.7	353.7	353.4	353.4	354.5	354.8	355.6	356.2	357.3	357.3	357.3
27.5°	365.9	366.2	365.6	365.4	367.6	368.4	369.0	370.1	370.9	371.5	371.2
30°	379.9	379.9	379.6	380.4	381.8	382.9	384.0	385.7	387.4	386.8	386.8
32.5°	396.3	396.9	396.6	397.7	399.4	401.0	402.4	404.4	405.2	406.6	405.5
35°	418.3	419.4	418.9	420.0	421.4	422.5	425.6	427.5	428.9	429.7	429.2
37.5°	445.9	445.4	446.5	446.7	449.5	450.9	454.6	457.3	459.6	460.4	459.8
40°	480.2	479.4	480.7	482.1	485.8	487.2	491.3	495.5	498.6	499.7	499.1
42.5°	521.2	522.3	524.5	526.5	531.5	535.4	540.1	546.2	549.6	551.0	549.0
45°	574.9	573.0	577.2	582.2	585.0	593.6	601.4	607.8	613.4	615.6	613.4
47.5°	636.3	636.0	641.0	647.1	654.4	662.5	671.7	680.0	689.8	690.3	687.5
50°	704.0	709.6	712.3	718.5	731.9	741.9	753.6	766.1	775.0	777.8	772.8
52.5°	785.6	789.8	791.5	801.8	814.1	826.3	842.8	857.8	868.1	869.2	866.7
55°	874.3	877.6	880.7	893.2	906.6	917.5	938.4	953.1	963.4	967.3	965.7
57.5°	966.0	969.0	972.9	986.6	1000.2	1015.6	1035.3	1052.6	1064.6	1071.9	1069.9
60°	1067.7	1067.7	1076.6	1090.3	1101.4	1119.5	1140.1	1160.2	1173.3	1184.7	1181.7
62.5°	1174.7	1177.8	1186.4	1197.5	1209.3	1226.0	1249.4	1273.4	1293.4	1302.1	1301.8
65°	1255.8	1261.4	1272.8	1285.6	1305.1	1324.9	1354.5	1384.3	1408.5	1421.1	1421.1
67.5°	1279.5	1283.1	1297.3	1316.8	1345.0	1376.5	1416.6	1458.1	1491.3	1507.7	1497.4
69°	1260.5	1265.8	1278.4	1299.6	1333.0	1371.5	1419.1	1466.2	1504.7	1521.7	1509.7
70°	1238.5	1244.4	1256.9	1277.8	1312.4	1353.3	1401.0	1451.7	1493.0	1507.5	1493.8
72.5°	1148.8	1156.0	1164.9	1183.1	1214.3	1252.7	1295.6	1340.2	1379.8	1391.2	1374.2
75°	995.8	997.2	1001.6	1015.0	1026.2	1053.5	1090.0	1125.4	1155.2	1161.9	1143.8
77.5°	704.8	697.3	689.8	701.2	710.1	745.2	784.8	813.8	845.0	854.5	836.1
80°	309.1	306.3	316.9	331.9	371.2	394.6	433.4	474.9	501.4	532.3	499.1
82.5°	61.0	64.4	74.4	92.0	113.4	142.7	168.1	196.8	222.7	234.4	222.4
85°	24.8	27.0	30.7	34.3	36.8	41.2	48.5	60.2	66.3	67.2	63.8
87.5°	10.3	12.0	16.2	19.2	19.5	18.7	19.2	19.8	16.2	13.1	16.4
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°	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5
2.5°	246.9	247.2	246.9	247.2	246.9	246.9	247.2	246.9
5°	253.1	253.3	253.1	252.8	252.5	252.8	252.8	252.8
7.5°	261.7	261.4	261.1	261.1	260.9	260.6	261.1	261.1
10°	272.3	272.0	271.4	271.4	271.2	271.2	271.2	271.2
12.5°	285.1	284.3	284.0	283.2	282.9	282.6	282.6	282.9
15°	298.5	297.6	297.4	296.0	296.0	295.7	295.7	295.7
17.5°	312.7	311.9	310.7	310.7	309.9	309.4	309.6	309.1
20°	327.2	326.1	325.5	325.2	324.1	324.1	324.1	323.8
22.5°	341.4	340.6	339.7	338.6	337.5	337.2	337.2	336.9
25°	355.9	354.5	352.8	351.7	350.6	349.8	349.8	349.8
27.5°	370.4	368.7	366.2	364.8	363.1	362.3	362.3	362.0
30°	385.7	383.8	381.5	379.6	377.4	376.5	376.2	375.7
32.5°	404.1	402.2	399.9	397.1	394.9	393.5	393.5	392.7
35°	427.5	425.3	423.6	420.0	417.2	415.0	415.3	415.8
37.5°	458.2	455.4	454.0	449.5	445.9	443.7	443.7	443.4
40°	497.2	494.4	491.3	487.2	482.7	479.6	478.8	478.8
42.5°	546.8	544.3	540.1	534.3	529.0	525.6	522.8	523.1
45°	608.9	605.9	600.0	592.8	586.4	581.6	577.7	577.7
47.5°	684.5	678.1	670.0	663.6	652.7	645.5	642.7	642.1
50°	770.6	758.6	748.6	739.4	727.9	720.4	716.2	715.1
52.5°	860.9	848.3	835.8	823.8	809.9	802.1	795.4	794.8
55°	959.0	943.1	927.2	915.5	899.1	891.0	884.3	880.4
57.5°	1059.0	1041.2	1029.8	1013.1	995.8	989.9	983.5	978.8
60°	1171.6	1152.1	1137.1	1119.5	1108.4	1095.8	1089.7	1086.1
62.5°	1286.7	1268.6	1249.4	1232.7	1217.1	1208.4	1200.1	1195.9
65°	1403.8	1374.0	1351.1	1328.0	1309.6	1294.0	1280.9	1279.2
67.5°	1475.7	1438.1	1399.9	1366.2	1339.1	1317.1	1303.7	1299.0
69°	1481.5	1440.6	1392.9	1352.5	1321.3	1300.1	1284.2	1279.2
70°	1465.4	1424.1	1374.0	1330.5	1298.2	1275.0	1261.9	1253.6
72.5°	1347.2	1311.0	1262.8	1219.8	1190.6	1163.5	1150.4	1147.1
75°	1111.4	1073.0	1028.7	1008.0	987.7	970.7	961.8	960.9
77.5°	789.3	750.0	716.2	689.2	667.2	656.3	658.8	649.6
80°	451.8	400.5	359.8	335.8	303.2	283.7	261.7	277.6
82.5°	194.2	156.9	119.6	97.3	74.1	58.8	48.5	45.1
85°	54.3	44.3	37.1	34.0	30.7	27.3	23.1	21.5
87.5°	18.4	17.6	15.6	15.6	14.2	12.0	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)