

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: P143996

Luminaire Tested: **LDRC-5WQ-F02-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143996
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-7050
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5193.5 lumens
Efficiency: N/A
Efficacy: 94.4 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

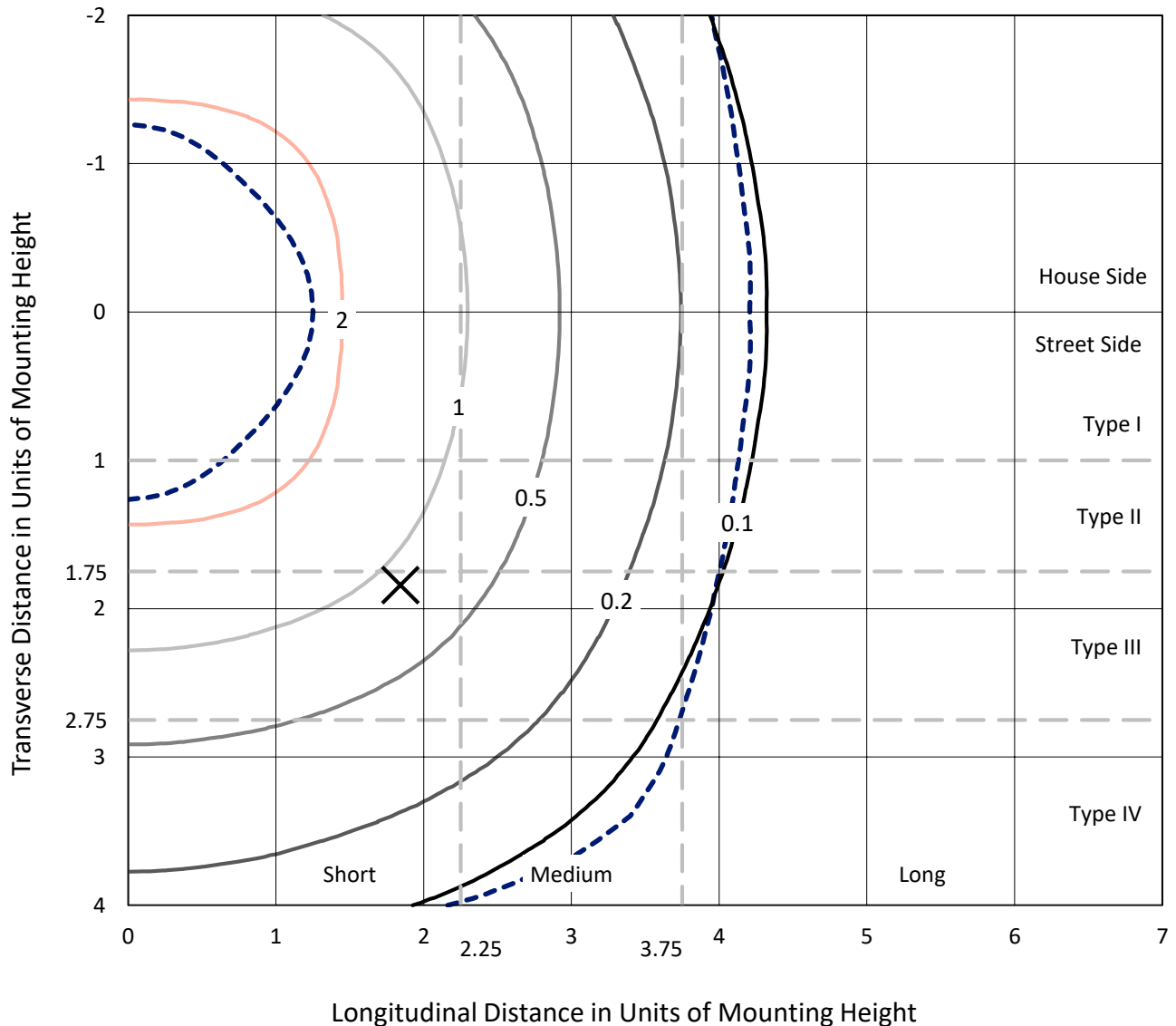
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

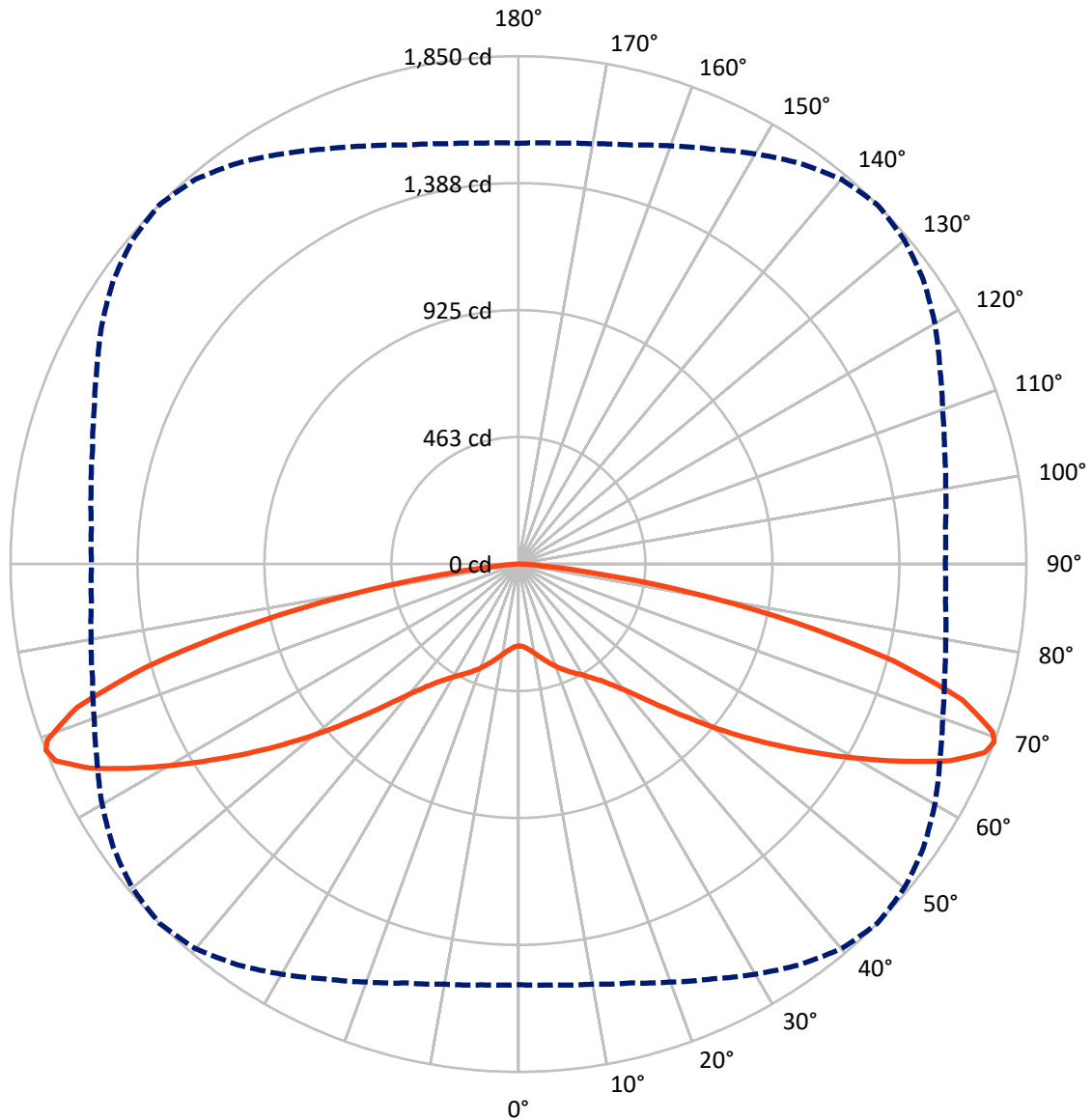
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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	2596.8	0.0	2596.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2596.8	0.0	2596.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5193.5	0.0	5193.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	0.6
10°-20°	103.8	2.0
20°-30°	200.1	3.9
30°-40°	327.8	6.3
40°-50°	570.0	11.0
50°-60°	1012.6	19.5
60°-70°	1572.1	30.3
70°-80°	1252.5	24.1
80°-90°	124.6	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°	5193.5	100.0
0°-180°	5193.5	100.0



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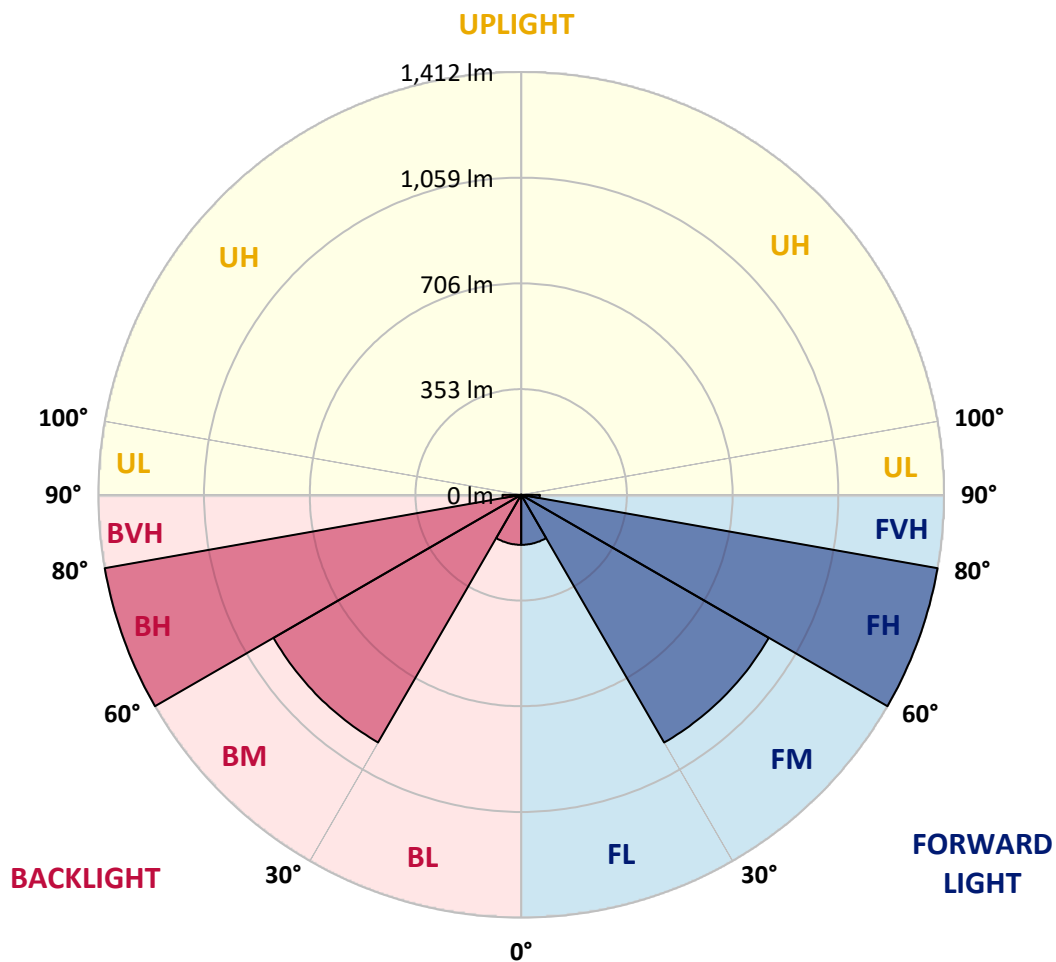
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.0	3.2			
FM (30°-60°)	955.2	18.4			
FH (60°-80°)	1412.3	27.2			G1/1800
FVH (80°-90°)	62.3	1.2			G1/100
BL (0°-30°)	167.0	3.2	B1/500		
BM (30°-60°)	955.2	18.4	B1/1000		
BH (60°-80°)	1412.3	27.2	B3/2500		G1/1800
BVH (80°-90°)	62.3	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°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5
2.5°	300.9	300.9	300.9	300.5	300.5	300.2	300.5	300.2	300.2	300.2	300.2
5°	308.7	308.0	308.0	307.7	308.3	308.3	307.7	308.0	307.7	308.0	308.0
7.5°	318.5	318.5	318.5	318.2	318.8	318.5	318.2	318.5	318.5	318.2	318.2
10°	330.7	331.0	330.7	330.7	331.7	331.4	331.7	331.7	332.1	331.7	331.7
12.5°	344.9	344.9	345.3	345.6	345.9	346.3	347.3	347.0	347.6	347.0	347.0
15°	361.5	362.2	361.5	361.5	362.5	363.2	363.6	363.6	364.2	363.9	363.2
17.5°	379.2	379.5	379.2	378.8	379.8	380.8	381.2	381.2	382.2	381.5	381.5
20°	397.1	397.4	396.8	396.4	397.8	397.8	398.5	398.8	399.8	400.2	399.1
22.5°	413.7	414.1	413.7	413.4	414.7	414.7	415.7	416.1	417.4	417.1	417.1
25°	430.0	430.0	429.6	429.6	431.0	431.3	432.3	433.0	434.4	434.4	434.4
27.5°	444.9	445.2	444.5	444.2	446.9	447.9	448.6	450.0	451.0	451.7	451.3
30°	461.8	461.8	461.5	462.5	464.2	465.6	466.9	468.9	471.0	470.3	470.3
32.5°	481.8	482.5	482.2	483.5	485.5	487.6	489.3	491.6	492.7	494.4	493.0
35°	508.6	509.9	509.3	510.6	512.3	513.7	517.4	519.8	521.5	522.5	521.8
37.5°	542.1	541.5	542.8	543.1	546.5	548.2	552.6	556.0	558.7	559.7	559.1
40°	583.8	582.8	584.5	586.2	590.6	592.3	597.4	602.4	606.2	607.5	606.8
42.5°	633.6	635.0	637.7	640.1	646.1	650.9	656.7	664.1	668.2	669.9	667.5
45°	699.0	696.6	701.7	707.8	711.2	721.7	731.2	739.0	745.8	748.5	745.8
47.5°	773.5	773.2	779.3	786.8	795.6	805.4	816.6	826.7	838.6	839.3	835.9
50°	855.9	862.7	866.1	873.5	889.8	902.0	916.2	931.4	942.3	945.7	939.6
52.5°	955.2	960.2	962.3	974.8	989.7	1004.6	1024.6	1042.9	1055.5	1056.8	1053.8
55°	1062.9	1067.0	1070.7	1086.0	1102.2	1115.4	1140.8	1158.8	1171.3	1176.1	1174.0
57.5°	1174.4	1178.1	1182.9	1199.5	1216.1	1234.7	1258.8	1279.8	1294.3	1303.1	1300.8
60°	1298.1	1298.1	1308.9	1325.5	1339.1	1361.1	1386.2	1410.6	1426.5	1440.4	1436.6
62.5°	1428.2	1431.9	1442.4	1456.0	1470.2	1490.5	1519.0	1548.1	1572.5	1583.0	1582.7
65°	1526.8	1533.5	1547.4	1563.0	1586.7	1610.8	1646.7	1683.0	1712.4	1727.7	1727.7
67.5°	1555.6	1560.0	1577.3	1601.0	1635.2	1673.5	1722.3	1772.8	1813.1	1833.1	1820.5
69°	1532.5	1539.0	1554.2	1580.0	1620.6	1667.4	1725.3	1782.6	1829.3	1850.0	1835.4
70°	1505.8	1512.9	1528.1	1553.5	1595.6	1645.4	1703.3	1765.0	1815.1	1832.7	1816.1
72.5°	1396.7	1405.5	1416.3	1438.3	1476.3	1523.0	1575.2	1629.4	1677.5	1691.4	1670.8
75°	1210.6	1212.3	1217.8	1234.0	1247.6	1280.8	1325.2	1368.2	1404.5	1412.6	1390.6
77.5°	856.9	847.8	838.6	852.5	863.3	906.0	954.1	989.4	1027.3	1038.9	1016.5
80°	375.8	372.4	385.2	403.5	451.3	479.8	526.9	577.4	609.6	647.2	606.8
82.5°	74.2	78.3	90.5	111.8	137.9	173.5	204.3	239.2	270.7	285.0	270.4
85°	30.2	32.9	37.3	41.7	44.7	50.1	59.0	73.2	80.6	81.7	77.6
87.5°	12.5	14.6	19.7	23.4	23.7	22.7	23.4	24.1	19.7	15.9	20.0
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°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5
2.5°	300.2	300.5	300.2	300.5	300.2	300.2	300.5	300.2
5°	307.7	308.0	307.7	307.3	307.0	307.3	307.3	307.3
7.5°	318.2	317.8	317.5	317.5	317.1	316.8	317.5	317.5
10°	331.0	330.7	330.0	330.0	329.7	329.7	329.7	329.7
12.5°	346.6	345.6	345.3	344.3	343.9	343.6	343.6	343.9
15°	362.9	361.9	361.5	359.8	359.8	359.5	359.5	359.5
17.5°	380.2	379.2	377.8	377.8	376.8	376.1	376.4	375.8
20°	397.8	396.4	395.8	395.4	394.1	394.1	394.1	393.7
22.5°	415.1	414.1	413.0	411.7	410.3	410.0	410.0	409.6
25°	432.7	431.0	429.0	427.6	426.2	425.2	425.2	425.2
27.5°	450.3	448.3	445.2	443.5	441.5	440.5	440.5	440.1
30°	468.9	466.6	463.9	461.5	458.8	457.8	457.4	456.7
32.5°	491.3	488.9	486.2	482.8	480.1	478.4	478.4	477.4
35°	519.8	517.1	515.0	510.6	507.2	504.5	504.9	505.5
37.5°	557.0	553.6	552.0	546.5	542.1	539.4	539.4	539.1
40°	604.5	601.1	597.4	592.3	586.9	583.1	582.1	582.1
42.5°	664.8	661.7	656.7	649.5	643.1	639.0	635.6	636.0
45°	740.3	736.6	729.5	720.7	712.9	707.1	702.4	702.4
47.5°	832.2	824.4	814.5	806.8	793.5	784.7	781.3	780.7
50°	936.9	922.3	910.1	898.9	885.0	875.9	870.8	869.4
52.5°	1046.6	1031.4	1016.2	1001.6	984.6	975.2	967.0	966.3
55°	1165.9	1146.6	1127.3	1113.1	1093.1	1083.2	1075.1	1070.4
57.5°	1287.6	1265.9	1252.0	1231.6	1210.6	1203.5	1195.7	1190.0
60°	1424.4	1400.7	1382.4	1361.1	1347.5	1332.3	1324.8	1320.4
62.5°	1564.4	1542.4	1519.0	1498.6	1479.7	1469.2	1459.0	1453.9
65°	1706.7	1670.4	1642.6	1614.5	1592.2	1573.2	1557.3	1555.2
67.5°	1794.1	1748.4	1701.9	1660.9	1628.1	1601.3	1585.0	1579.3
69°	1801.2	1751.4	1693.5	1644.3	1606.4	1580.6	1561.3	1555.2
70°	1781.6	1731.4	1670.4	1617.6	1578.3	1550.1	1534.2	1524.1
72.5°	1637.9	1593.9	1535.2	1483.1	1447.5	1414.6	1398.7	1394.6
75°	1351.3	1304.5	1250.6	1225.5	1200.8	1180.1	1169.3	1168.3
77.5°	959.6	911.8	870.8	837.9	811.2	797.9	801.0	789.8
80°	549.2	486.9	437.4	408.3	368.6	344.9	318.2	337.5
82.5°	236.2	190.8	145.4	118.3	90.1	71.5	59.0	54.9
85°	66.1	53.9	45.1	41.3	37.3	33.2	28.1	26.1
87.5°	22.4	21.3	19.0	19.0	17.3	14.6	10.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)