

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: STREETWORKS

Report Number: P140671

Luminaire Tested: **CEM-E02-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140671
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E02-LED-E-U-5XQ-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6118.7 lumens
Efficiency: N/A
Efficacy: 117.4 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

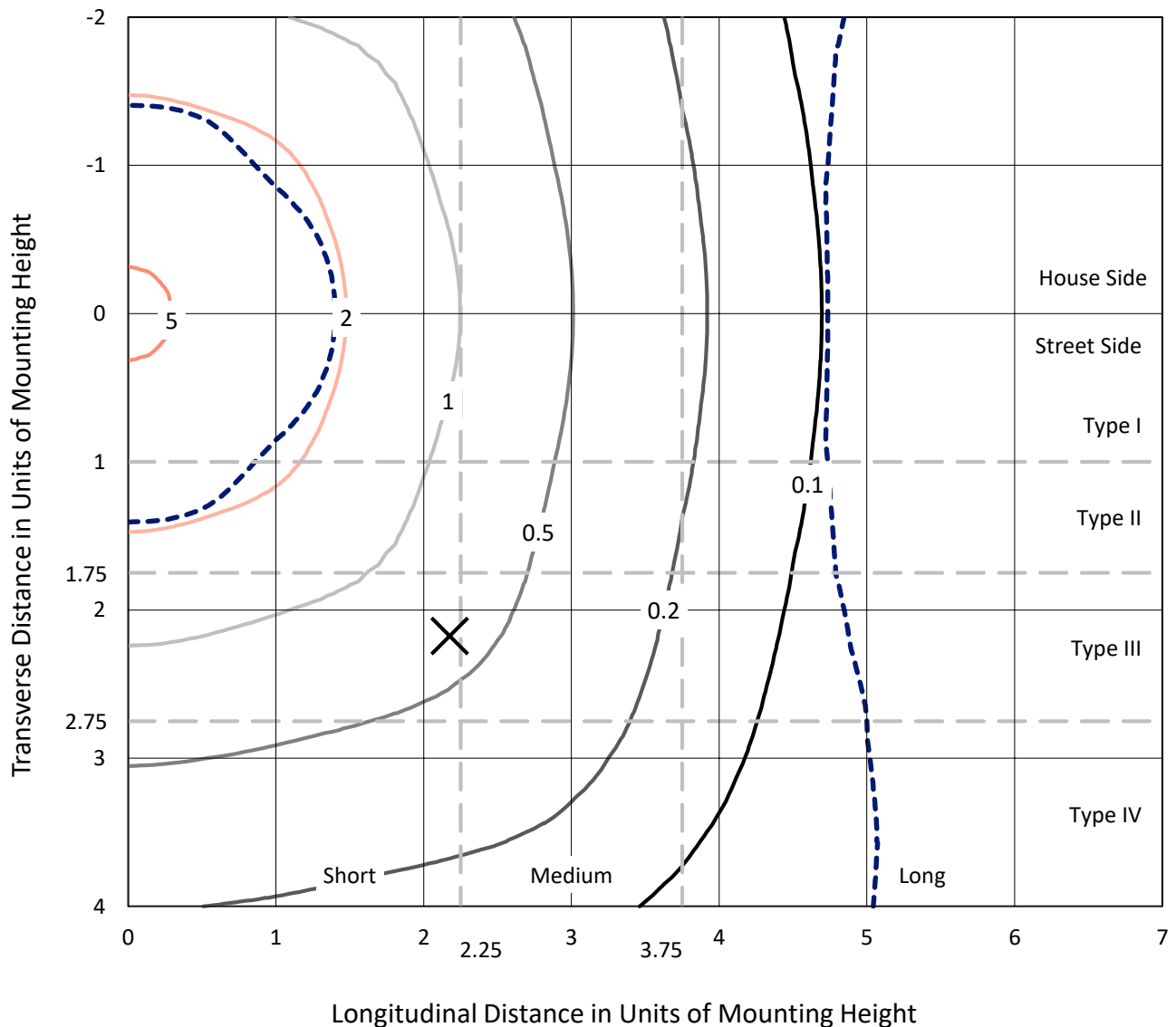
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

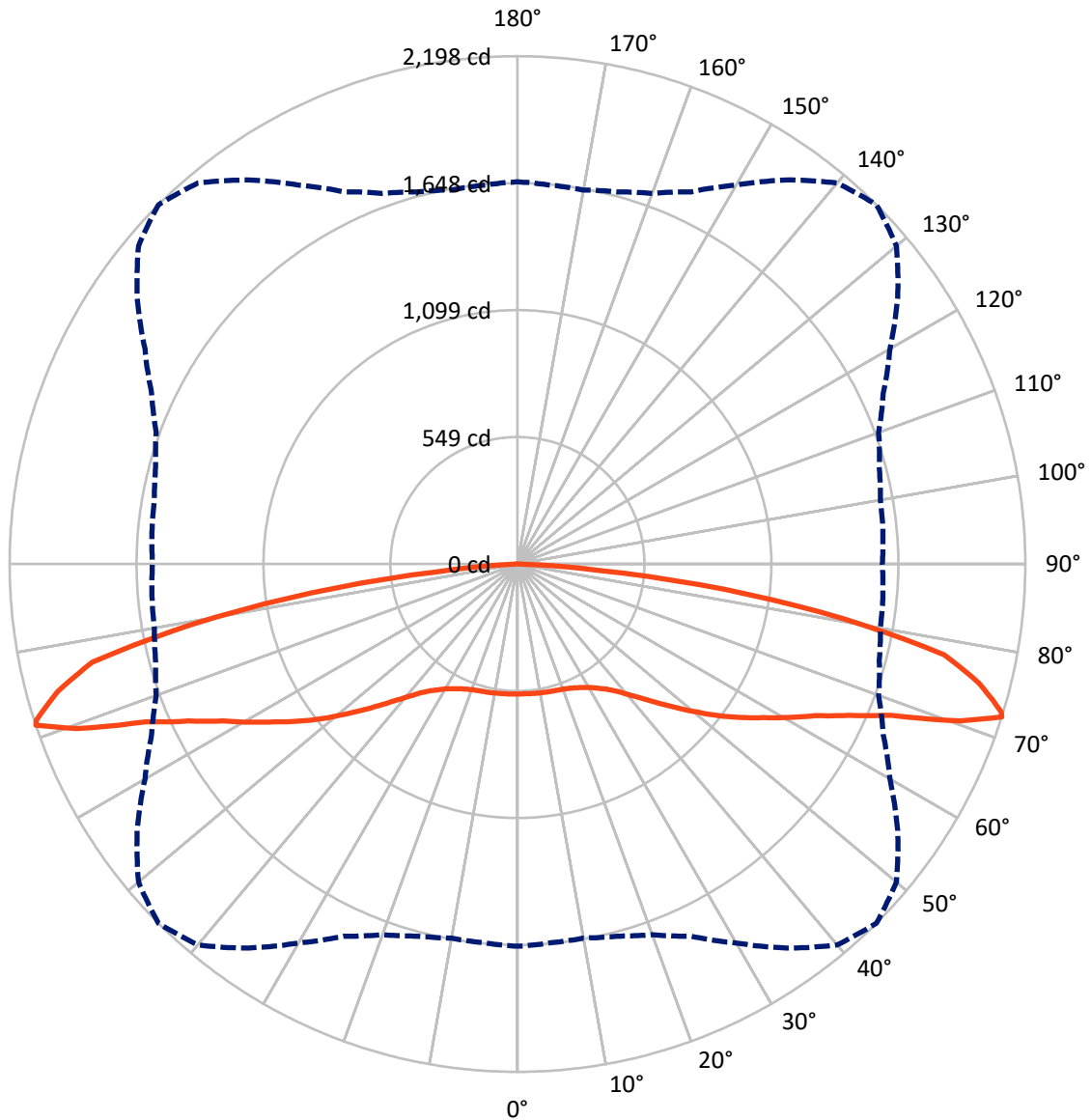
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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	3059.4	0.0	3059.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3059.4	0.0	3059.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6118.7	0.0	6118.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.9
10°-20°	162.3	2.7
20°-30°	274.7	4.5
30°-40°	417.9	6.8
40°-50°	661.6	10.8
50°-60°	1013.8	16.6
60°-70°	1488.4	24.3
70°-80°	1688.4	27.6
80°-90°	357.7	5.8
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°	6118.7	100.0
0°-180°	6118.7	100.0



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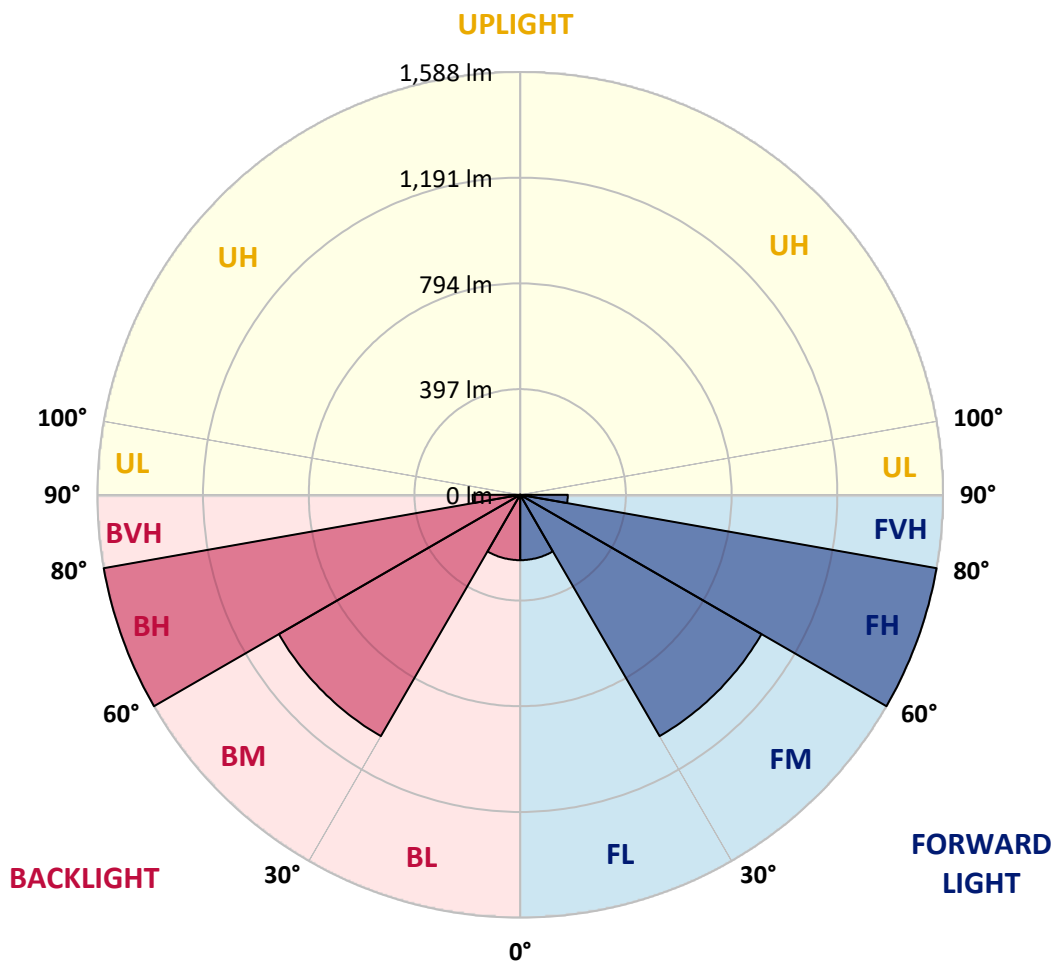
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.5	4.0			
FM	(30°-60°)	1046.7	17.1			
FH	(60°-80°)	1588.4	26.0			G1/1800
FVH	(80°-90°)	178.8	2.9			G2/225
BL	(0°-30°)	245.5	4.0	B1/500		
BM	(30°-60°)	1046.7	17.1	B2/2500		
BH	(60°-80°)	1588.4	26.0	B3/2500		G1/1800
BVH	(80°-90°)	178.8	2.9			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°	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3
2.5°	564.4	565.0	564.4	563.7	563.7	563.0	563.0	563.0	563.7	562.3	562.3
5°	565.7	566.4	565.7	564.4	564.4	564.4	563.7	563.7	564.4	563.7	563.7
7.5°	567.8	568.5	567.8	566.4	566.4	565.7	565.0	565.0	566.4	565.0	565.0
10°	569.8	571.2	569.8	568.5	568.5	567.8	567.1	567.1	567.8	566.4	566.4
12.5°	573.3	573.3	572.6	571.9	571.9	571.2	570.5	569.8	569.1	568.5	567.8
15°	576.0	576.7	575.3	574.6	573.9	573.3	572.6	572.6	571.2	570.5	570.5
17.5°	579.4	580.1	578.7	577.4	577.4	576.0	575.3	575.3	573.9	573.3	572.6
20°	582.8	583.5	582.1	581.5	580.8	580.1	578.7	579.4	578.7	577.4	577.4
22.5°	586.9	586.9	586.2	585.6	585.6	584.9	584.2	585.6	584.2	584.2	583.5
25°	591.0	591.7	591.0	591.0	591.7	591.7	592.4	593.8	593.8	593.1	592.4
27.5°	599.9	599.9	599.9	599.9	602.0	602.0	602.7	604.7	605.4	605.4	605.4
30°	611.6	612.2	611.6	611.6	613.6	614.3	616.3	618.4	619.8	619.8	620.5
32.5°	628.7	628.0	628.7	630.0	631.4	632.8	634.8	638.2	640.3	641.0	641.0
35°	650.6	651.2	650.6	651.2	654.0	656.0	658.1	662.2	663.5	664.9	665.6
37.5°	682.7	684.8	683.4	683.4	686.8	688.2	690.9	694.3	697.1	698.4	697.8
40°	729.2	728.5	727.2	727.9	728.5	729.9	732.6	739.5	742.9	742.9	742.9
42.5°	782.6	783.3	781.2	780.5	781.2	782.6	786.7	792.2	797.6	796.3	796.9
45°	843.5	838.7	840.0	838.7	839.4	844.1	851.0	853.7	859.2	859.2	860.6
47.5°	903.0	900.9	900.2	899.6	901.6	906.4	914.6	923.5	928.3	931.0	933.1
50°	970.0	966.6	965.9	966.6	967.3	968.6	984.4	993.3	1004.9	1007.0	1006.3
52.5°	1035.0	1032.3	1030.9	1030.9	1033.6	1038.4	1054.8	1069.2	1082.2	1090.4	1087.0
55°	1105.5	1105.5	1101.4	1100.0	1104.1	1108.9	1131.5	1147.9	1166.3	1172.5	1162.9
57.5°	1178.0	1177.3	1171.1	1169.1	1172.5	1184.8	1204.0	1229.3	1249.1	1254.6	1249.1
60°	1249.1	1249.1	1245.7	1244.3	1247.7	1262.8	1286.1	1314.1	1338.0	1348.3	1339.4
62.5°	1330.5	1330.5	1321.6	1325.7	1330.5	1342.1	1371.6	1407.8	1440.0	1445.4	1437.2
65°	1422.9	1427.0	1420.1	1418.8	1424.9	1446.8	1480.3	1526.2	1563.8	1578.2	1565.8
67.5°	1563.8	1557.6	1549.4	1546.0	1555.6	1576.1	1617.1	1677.3	1732.8	1746.4	1732.1
70°	1710.2	1704.0	1701.3	1712.2	1732.8	1775.8	1838.8	1922.9	2000.2	2033.1	2003.0
72°	1654.1	1645.9	1643.8	1667.1	1706.8	1777.2	1893.5	2029.0	2152.1	2197.9	2141.1
72.5°	1625.4	1618.5	1617.8	1639.7	1682.8	1754.0	1868.2	2007.7	2139.8	2189.7	2128.8
75°	1509.1	1502.2	1509.1	1533.7	1576.8	1653.4	1769.7	1900.3	2019.4	2065.2	2005.7
77.5°	1348.3	1336.0	1342.1	1376.3	1424.2	1507.7	1630.8	1785.4	1900.3	1888.0	1799.8
80°	1076.0	1048.7	1078.1	1088.4	1143.1	1199.2	1318.2	1387.3	1427.0	1429.0	1366.1
82.5°	470.0	480.9	517.8	548.6	587.6	652.6	700.5	775.1	861.9	902.3	853.7
85°	30.8	38.3	60.9	72.5	100.6	122.4	175.8	255.8	308.5	353.0	297.6
87.5°	5.5	7.5	13.7	16.4	17.8	19.8	19.8	27.4	28.7	23.3	26.0
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°	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3
2.5°	562.3	562.3	563.0	562.3	562.3	562.3	561.6	561.6
5°	563.0	563.0	563.7	563.7	563.0	563.0	563.0	563.0
7.5°	565.0	564.4	565.0	565.0	564.4	564.4	563.7	564.4
10°	565.7	565.7	566.4	566.4	565.7	565.7	565.7	565.7
12.5°	567.8	567.8	567.8	568.5	567.8	567.8	568.5	567.8
15°	569.8	569.1	569.1	569.1	569.1	569.8	569.8	570.5
17.5°	571.9	571.9	571.2	571.9	571.9	572.6	572.6	572.6
20°	576.0	575.3	573.9	575.3	575.3	575.3	575.3	576.0
22.5°	582.1	580.8	579.4	579.4	578.7	579.4	578.7	578.7
25°	591.0	589.0	586.9	586.2	585.6	584.9	584.2	584.9
27.5°	604.0	601.3	598.6	597.2	596.5	595.1	594.5	594.5
30°	618.4	616.3	612.2	610.9	608.8	606.8	606.8	606.1
32.5°	640.3	637.6	632.8	630.7	627.3	625.2	624.6	624.6
35°	662.9	659.4	657.4	654.7	650.6	648.5	647.8	647.8
37.5°	697.1	693.0	690.2	686.8	686.1	683.4	683.4	683.4
40°	741.5	738.1	734.7	732.0	729.9	727.9	725.1	725.1
42.5°	796.3	790.8	788.7	785.3	782.6	780.5	779.2	779.2
45°	856.5	851.7	848.9	844.1	843.5	842.1	839.4	839.4
47.5°	924.2	917.3	911.9	910.5	907.1	903.7	902.3	903.0
50°	998.1	986.4	978.9	978.9	974.8	970.0	970.7	970.0
52.5°	1074.0	1061.0	1051.4	1044.6	1039.8	1039.1	1039.8	1039.1
55°	1150.6	1136.9	1125.3	1117.8	1113.0	1108.2	1107.5	1107.5
57.5°	1230.0	1212.9	1194.4	1187.5	1182.8	1180.0	1180.0	1180.7
60°	1319.6	1291.5	1268.3	1259.4	1256.0	1257.3	1256.6	1257.3
62.5°	1410.6	1378.4	1351.0	1340.8	1336.0	1335.3	1340.8	1342.8
65°	1525.5	1485.8	1455.0	1435.9	1435.9	1433.8	1440.0	1437.2
67.5°	1675.3	1619.2	1581.6	1550.8	1551.5	1553.5	1562.4	1561.7
70°	1930.4	1831.3	1761.5	1708.8	1688.3	1674.6	1671.9	1671.9
72°	2009.1	1861.4	1746.4	1663.7	1621.2	1595.3	1587.7	1579.5
72.5°	1988.6	1836.7	1720.4	1634.2	1590.5	1564.5	1552.8	1542.6
75°	1859.3	1689.7	1563.1	1472.8	1424.2	1392.8	1386.6	1381.8
77.5°	1640.4	1489.9	1359.2	1265.5	1217.0	1176.6	1160.2	1158.8
80°	1264.8	1129.4	1028.8	955.6	911.9	881.8	883.1	873.6
82.5°	746.3	632.1	545.9	448.1	383.8	346.8	323.6	320.8
85°	219.6	149.1	95.1	68.4	49.3	36.9	27.4	24.6
87.5°	19.8	15.7	13.0	10.9	10.3	8.9	5.5	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)