

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: INVUE

Report Number: P140589

Luminaire Tested: **ECM-E02-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140589
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E02-LED-E1-5XQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.4 lumens
Efficiency: N/A
Efficacy: 104.5 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

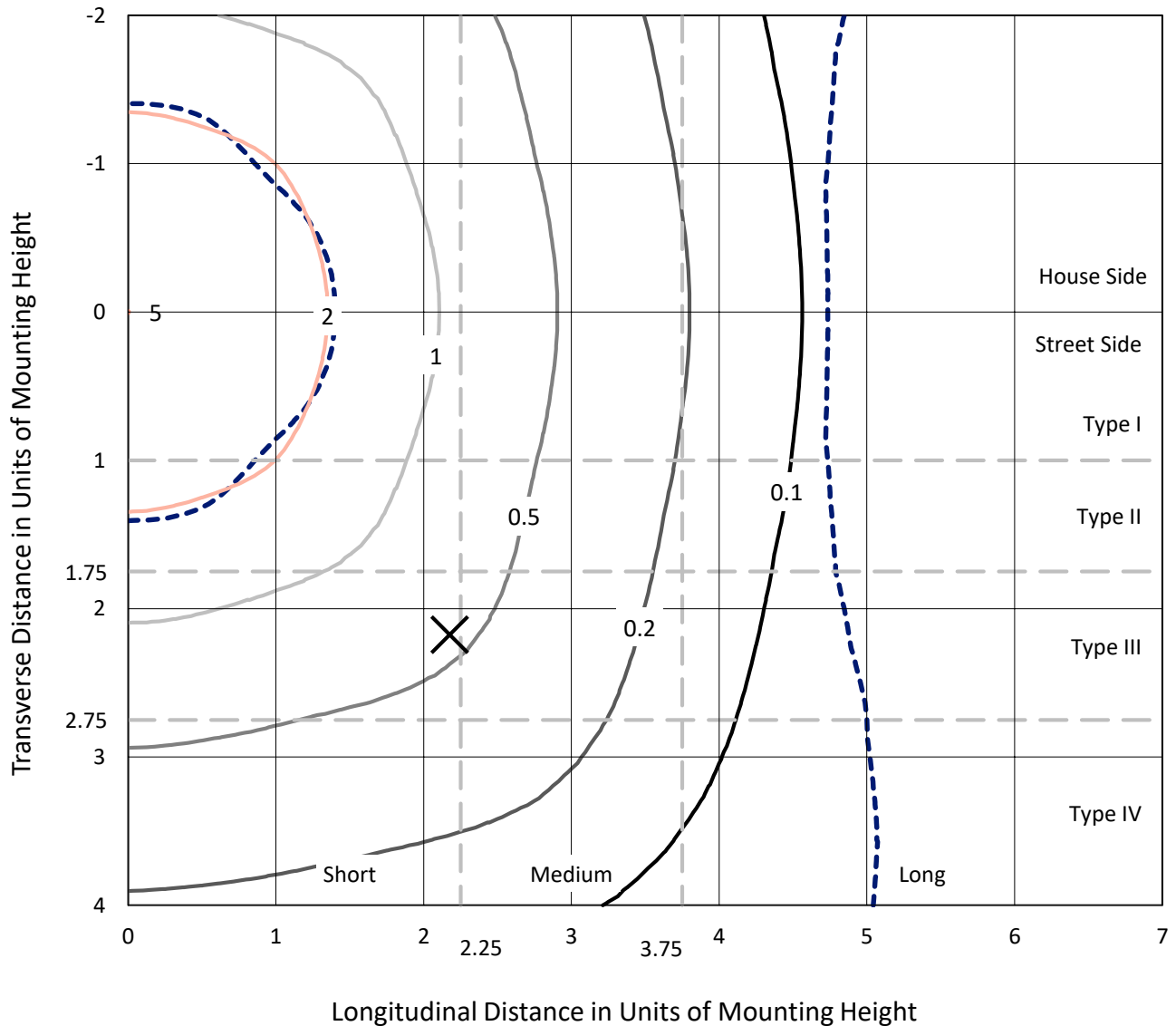
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

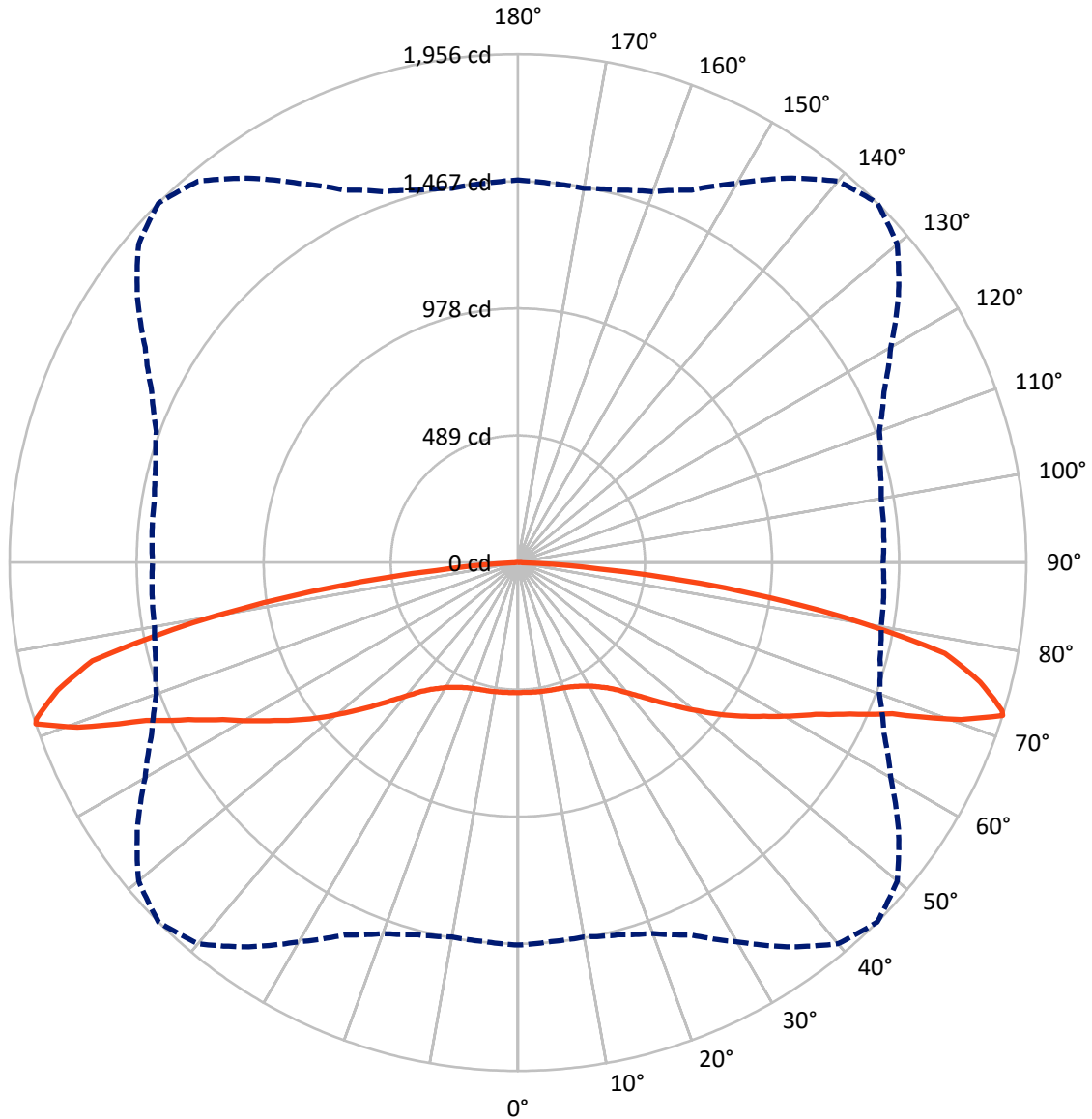
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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	2723.2	0.0	2723.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2723.2	0.0	2723.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5446.4	0.0	5446.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	0.9
10°-20°	144.5	2.7
20°-30°	244.5	4.5
30°-40°	372.0	6.8
40°-50°	588.9	10.8
50°-60°	902.4	16.6
60°-70°	1324.9	24.3
70°-80°	1502.9	27.6
80°-90°	318.4	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°	5446.4	100.0
0°-180°	5446.4	100.0



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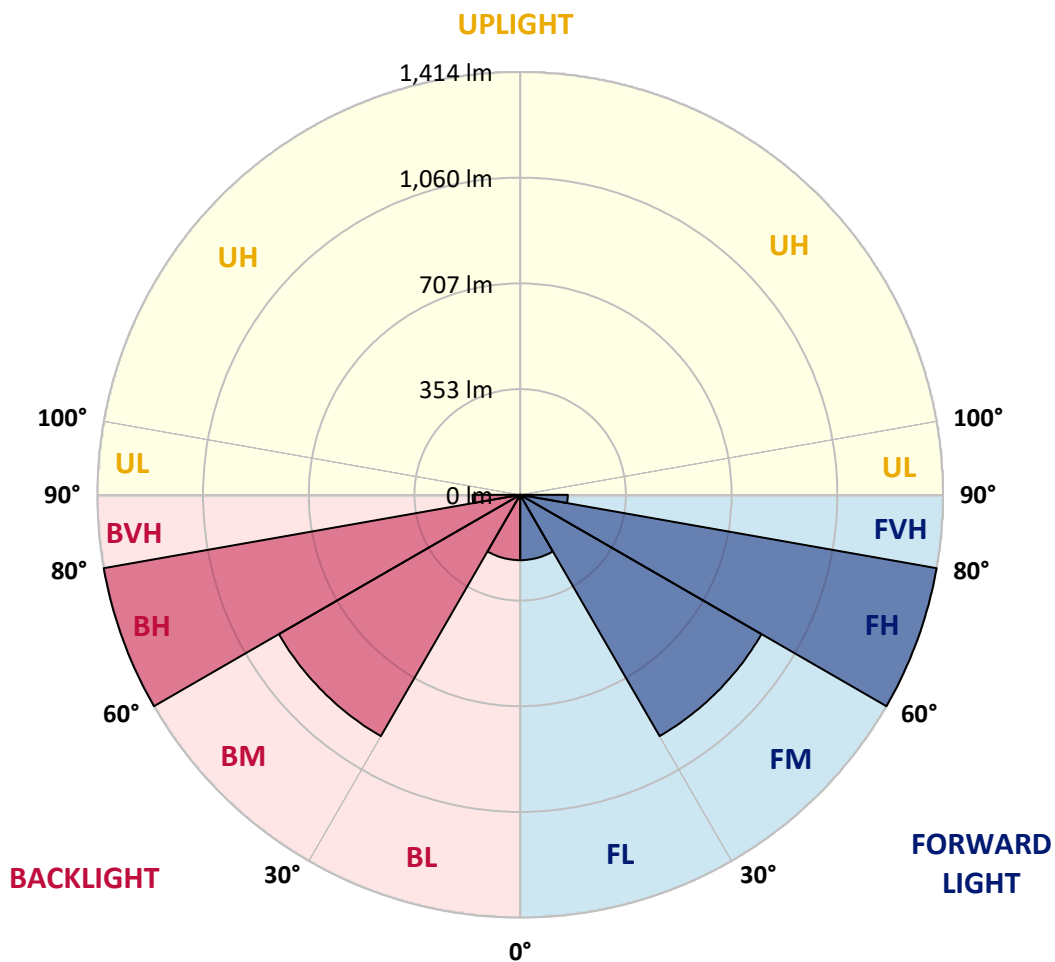
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.5	4.0			
FM (30°-60°)	931.6	17.1			
FH (60°-80°)	1413.9	26.0			G1/1800
FVH (80°-90°)	159.2	2.9			G2/225
BL (0°-30°)	218.5	4.0	B1/500		
BM (30°-60°)	931.6	17.1	B1/1000		
BH (60°-80°)	1413.9	26.0	B3/2500		G1/1800
BVH (80°-90°)	159.2	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°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	502.3	503.0	502.3	501.7	501.7	501.1	501.1	501.1	501.7	500.5	500.5
5°	503.6	504.2	503.6	502.3	502.3	502.3	501.7	501.7	502.3	501.7	501.7
7.5°	505.4	506.0	505.4	504.2	504.2	503.6	503.0	503.0	504.2	503.0	503.0
10°	507.2	508.4	507.2	506.0	506.0	505.4	504.8	504.8	505.4	504.2	504.2
12.5°	510.3	510.3	509.6	509.0	509.0	508.4	507.8	507.2	506.6	506.0	505.4
15°	512.7	513.3	512.1	511.5	510.9	510.3	509.6	509.6	508.4	507.8	507.8
17.5°	515.7	516.3	515.1	513.9	513.9	512.7	512.1	512.1	510.9	510.3	509.6
20°	518.8	519.4	518.2	517.6	517.0	516.3	515.1	515.7	515.1	513.9	513.9
22.5°	522.4	522.4	521.8	521.2	521.2	520.6	520.0	521.2	520.0	520.0	519.4
25°	526.1	526.7	526.1	526.1	526.7	526.7	527.3	528.5	528.5	527.9	527.3
27.5°	534.0	534.0	534.0	534.0	535.8	535.8	536.4	538.3	538.9	538.9	538.9
30°	544.4	545.0	544.4	544.4	546.2	546.8	548.6	550.4	551.7	551.7	552.3
32.5°	559.6	559.0	559.6	560.8	562.0	563.2	565.1	568.1	569.9	570.5	570.5
35°	579.1	579.7	579.1	579.7	582.1	583.9	585.8	589.4	590.6	591.9	592.5
37.5°	607.7	609.5	608.3	608.3	611.3	612.6	615.0	618.0	620.5	621.7	621.1
40°	649.1	648.5	647.3	647.9	648.5	649.7	652.1	658.2	661.3	661.3	661.3
42.5°	696.6	697.2	695.4	694.8	695.4	696.6	700.2	705.1	710.0	708.8	709.4
45°	750.8	746.5	747.7	746.5	747.1	751.4	757.5	759.9	764.8	764.8	766.0
47.5°	803.7	801.9	801.3	800.7	802.5	806.8	814.1	822.0	826.3	828.7	830.5
50°	863.4	860.4	859.8	860.4	861.0	862.2	876.2	884.1	894.5	896.3	895.7
52.5°	921.3	918.8	917.6	917.6	920.0	924.3	938.9	951.7	963.3	970.6	967.5
55°	984.0	984.0	980.3	979.1	982.8	987.0	1007.1	1021.7	1038.2	1043.7	1035.1
57.5°	1048.5	1047.9	1042.4	1040.6	1043.7	1054.6	1071.7	1094.2	1111.9	1116.7	1111.9
60°	1111.9	1111.9	1108.8	1107.6	1110.6	1124.0	1144.7	1169.7	1191.0	1200.1	1192.2
62.5°	1184.3	1184.3	1176.4	1180.0	1184.3	1194.7	1220.8	1253.1	1281.7	1286.6	1279.3
65°	1266.5	1270.2	1264.1	1262.9	1268.3	1287.8	1317.7	1358.5	1391.9	1404.7	1393.8
67.5°	1391.9	1386.5	1379.2	1376.1	1384.6	1402.9	1439.4	1493.0	1542.3	1554.5	1541.7
70°	1522.3	1516.8	1514.3	1524.1	1542.3	1580.7	1636.7	1711.6	1780.4	1809.7	1782.9
72°	1472.3	1465.0	1463.2	1483.9	1519.2	1581.9	1685.4	1806.0	1915.6	1956.4	1905.9
72.5°	1446.7	1440.7	1440.0	1459.5	1497.9	1561.2	1662.9	1787.1	1904.6	1949.1	1894.9
75°	1343.2	1337.1	1343.2	1365.2	1403.5	1471.7	1575.2	1691.5	1797.5	1838.3	1785.3
77.5°	1200.1	1189.2	1194.7	1225.1	1267.7	1342.0	1451.6	1589.2	1691.5	1680.6	1602.0
80°	957.8	933.4	959.6	968.8	1017.5	1067.4	1173.4	1234.8	1270.2	1272.0	1216.0
82.5°	418.3	428.1	460.9	488.3	523.0	580.9	623.5	689.9	767.2	803.1	759.9
85°	27.4	34.1	54.2	64.5	89.5	109.0	156.5	227.7	274.6	314.2	264.9
87.5°	4.9	6.7	12.2	14.6	15.8	17.7	17.7	24.4	25.6	20.7	23.1
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°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	500.5	500.5	501.1	500.5	500.5	500.5	499.9	499.9
5°	501.1	501.1	501.7	501.7	501.1	501.1	501.1	501.1
7.5°	503.0	502.3	503.0	503.0	502.3	502.3	501.7	502.3
10°	503.6	503.6	504.2	504.2	503.6	503.6	503.6	503.6
12.5°	505.4	505.4	505.4	506.0	505.4	505.4	506.0	505.4
15°	507.2	506.6	506.6	506.6	506.6	507.2	507.2	507.8
17.5°	509.0	509.0	508.4	509.0	509.0	509.6	509.6	509.6
20°	512.7	512.1	510.9	512.1	512.1	512.1	512.1	512.7
22.5°	518.2	517.0	515.7	515.7	515.1	515.7	515.1	515.1
25°	526.1	524.3	522.4	521.8	521.2	520.6	520.0	520.6
27.5°	537.7	535.2	532.8	531.6	531.0	529.7	529.1	529.1
30°	550.4	548.6	545.0	543.7	541.9	540.1	540.1	539.5
32.5°	569.9	567.5	563.2	561.4	558.4	556.5	555.9	555.9
35°	590.0	587.0	585.2	582.7	579.1	577.2	576.6	576.6
37.5°	620.5	616.8	614.4	611.3	610.7	608.3	608.3	608.3
40°	660.0	657.0	654.0	651.5	649.7	647.9	645.4	645.4
42.5°	708.8	703.9	702.1	699.0	696.6	694.8	693.5	693.5
45°	762.3	758.1	755.6	751.4	750.8	749.6	747.1	747.1
47.5°	822.6	816.5	811.7	810.4	807.4	804.4	803.1	803.7
50°	888.4	878.0	871.3	871.3	867.7	863.4	864.0	863.4
52.5°	956.0	944.4	935.9	929.8	925.5	924.9	925.5	924.9
55°	1024.2	1012.0	1001.6	994.9	990.7	986.4	985.8	985.8
57.5°	1094.8	1079.6	1063.1	1057.1	1052.8	1050.4	1050.4	1051.0
60°	1174.6	1149.6	1128.9	1121.0	1117.9	1119.2	1118.5	1119.2
62.5°	1255.6	1226.9	1202.6	1193.4	1189.2	1188.6	1193.4	1195.3
65°	1357.8	1322.5	1295.1	1278.1	1278.1	1276.3	1281.7	1279.3
67.5°	1491.2	1441.3	1407.8	1380.4	1381.0	1382.8	1390.7	1390.1
70°	1718.3	1630.0	1567.9	1521.0	1502.8	1490.6	1488.2	1488.2
72°	1788.3	1656.8	1554.5	1480.8	1443.1	1420.0	1413.3	1406.0
72.5°	1770.1	1634.9	1531.4	1454.7	1415.7	1392.6	1382.2	1373.1
75°	1655.0	1504.0	1391.3	1311.0	1267.7	1239.7	1234.2	1230.0
77.5°	1460.1	1326.2	1209.9	1126.5	1083.2	1047.3	1032.7	1031.5
80°	1125.9	1005.3	915.8	850.6	811.7	784.9	786.1	777.6
82.5°	664.3	562.6	485.9	398.8	341.6	308.7	288.0	285.6
85°	195.5	132.7	84.6	60.9	43.8	32.9	24.4	21.9
87.5°	17.7	14.0	11.6	9.7	9.1	7.9	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)