

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: P179983

Luminaire Tested: **ICM-F03-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179983
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-5MQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

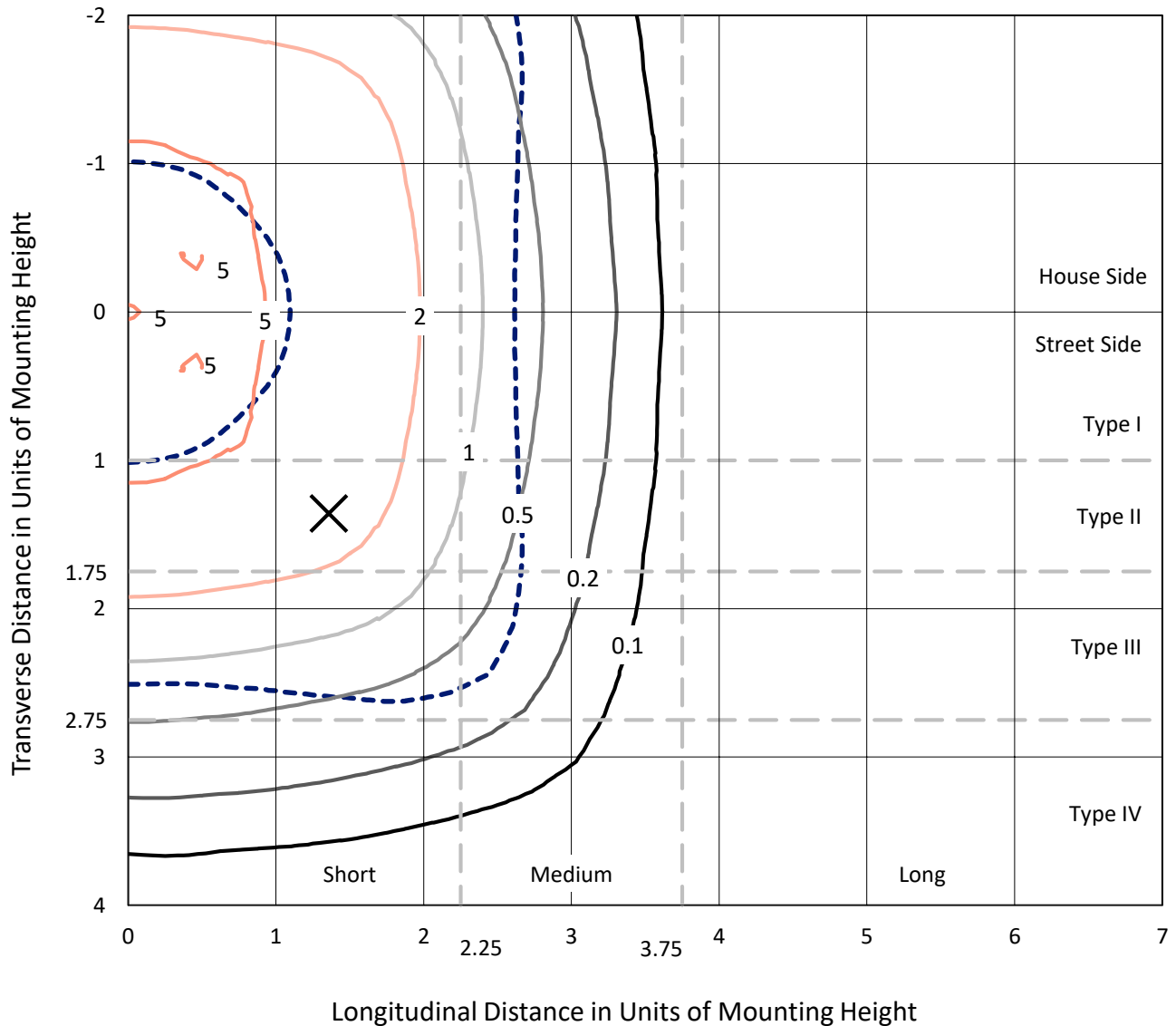
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

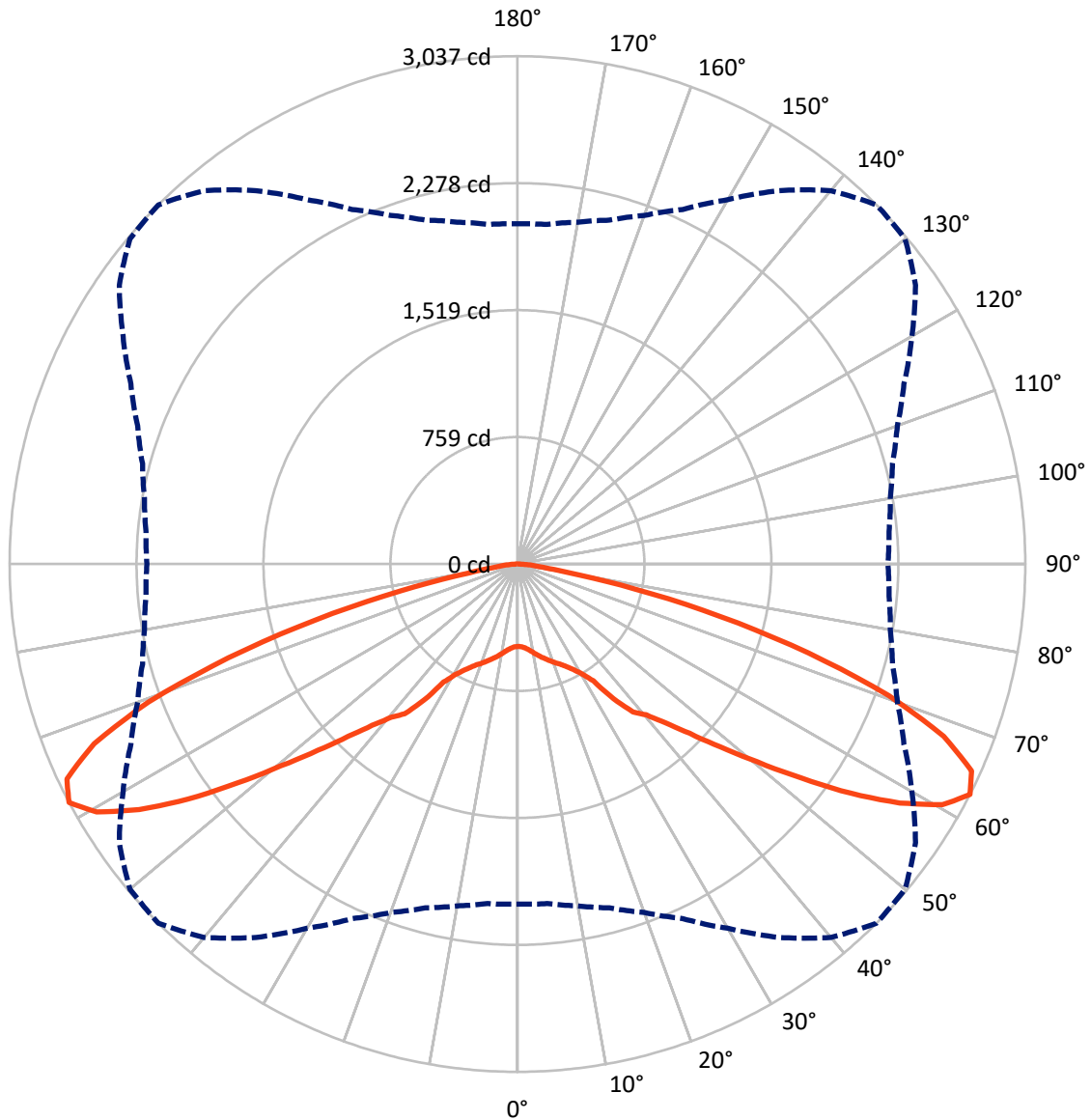
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3713.5	0.0	3713.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3713.5	0.0	3713.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7426.9	0.0	7426.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	0.7
10°-20°	167.0	2.2
20°-30°	322.9	4.3
30°-40°	625.2	8.4
40°-50°	1128.9	15.2
50°-60°	1963.0	26.4
60°-70°	2228.5	30.0
70°-80°	864.0	11.6
80°-90°	77.9	1.0
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°	7426.9	100.0
0°-180°	7426.9	100.0



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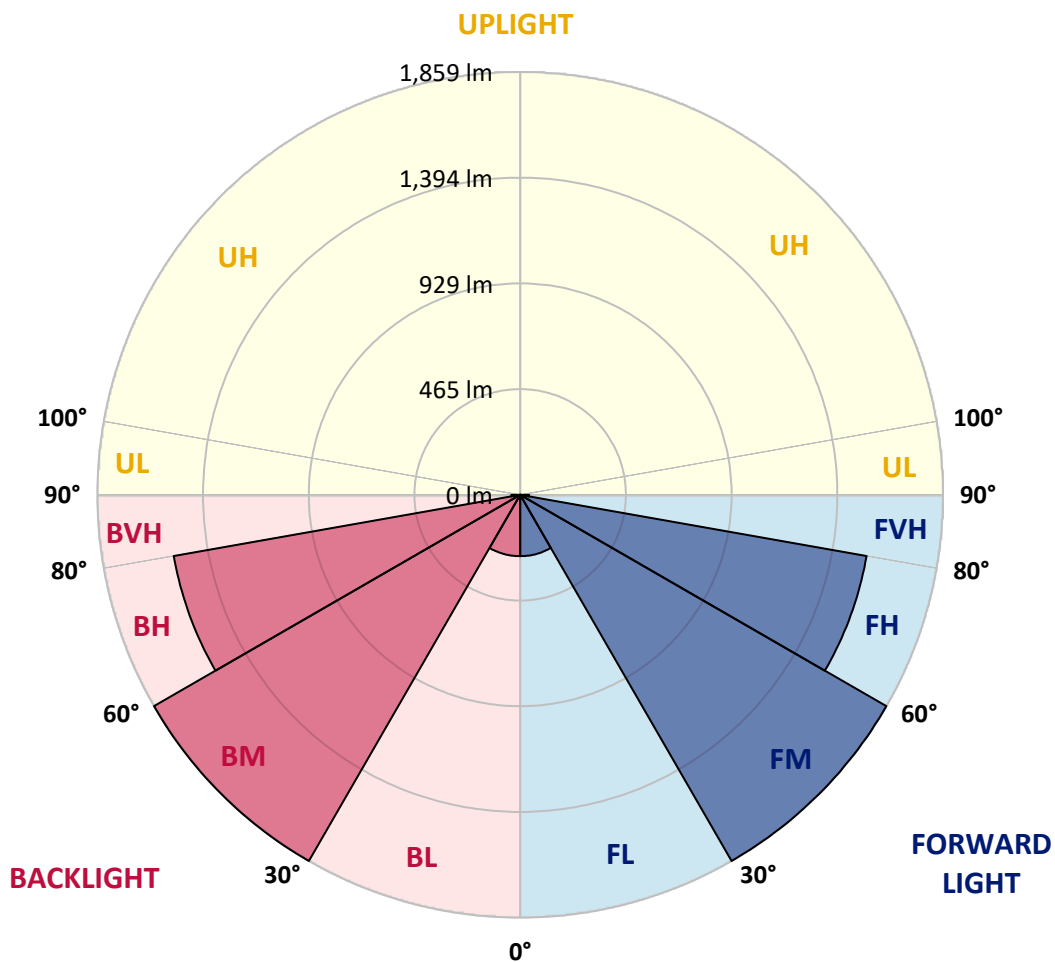
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.7	3.6			
FM (30°-60°)	1858.6	25.0			
FH (60°-80°)	1546.3	20.8			G1/1800
FVH (80°-90°)	39.0	0.5			G1/100
BL (0°-30°)	269.7	3.6	B1/500		
BM (30°-60°)	1858.6	25.0	B2/2500		
BH (60°-80°)	1546.3	20.8	B3/2500		G1/1800
BVH (80°-90°)	39.0	0.5			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°	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
2.5°	496.1	497.7	497.3	496.6	496.6	496.5	496.1	494.9	494.5	495.3	496.0
5°	507.5	507.5	507.5	507.5	506.8	506.8	506.0	505.3	505.7	504.9	504.6
7.5°	525.3	524.1	524.1	523.7	523.7	523.0	521.9	520.3	520.7	520.3	519.9
10°	546.0	546.4	545.3	546.4	544.5	544.0	542.5	541.8	541.4	540.3	540.3
12.5°	571.0	569.9	569.9	569.1	568.3	567.4	565.2	564.8	563.4	562.5	561.3
15°	594.4	594.1	592.5	590.9	590.5	589.8	587.1	585.5	585.1	583.3	581.8
17.5°	617.9	617.0	615.1	614.3	612.8	611.6	609.3	607.1	605.9	605.1	603.2
20°	642.8	642.1	640.1	638.5	636.7	635.2	631.6	629.8	628.6	627.4	625.9
22.5°	673.9	672.4	669.2	666.6	662.4	660.8	656.2	653.5	651.5	650.1	649.3
25°	707.6	708.0	703.8	700.3	695.4	691.2	685.4	682.3	680.4	678.9	678.5
27.5°	749.9	750.2	746.4	741.4	733.8	729.1	721.5	717.6	716.5	715.0	714.6
30°	816.7	813.2	806.7	798.7	791.7	781.8	770.6	766.7	763.0	761.9	761.9
32.5°	939.5	937.7	932.3	912.4	903.1	882.4	862.7	851.6	838.9	832.7	829.0
35°	1025.6	1024.8	1020.6	1013.6	1007.9	1003.7	992.2	990.2	988.0	987.9	991.1
37.5°	1088.9	1084.3	1083.5	1084.7	1083.2	1083.9	1093.2	1105.9	1116.6	1122.0	1121.1
40°	1182.6	1176.1	1179.9	1177.3	1173.8	1173.0	1176.1	1181.0	1186.1	1186.1	1184.9
42.5°	1305.1	1308.2	1309.7	1298.6	1291.4	1289.3	1296.7	1295.1	1300.1	1298.2	1293.2
45°	1487.1	1485.2	1482.4	1469.0	1457.5	1448.3	1450.2	1447.5	1447.9	1444.8	1441.0
47.5°	1670.6	1677.1	1666.1	1659.5	1646.4	1640.0	1645.3	1640.7	1649.5	1633.3	1625.7
50°	1848.8	1853.4	1849.6	1840.4	1840.4	1849.5	1856.1	1864.6	1876.8	1858.4	1830.7
52.5°	1994.7	1998.5	2004.3	2012.0	2030.8	2050.4	2078.0	2107.5	2131.0	2127.5	2096.1
55°	2083.7	2088.4	2098.1	2124.5	2158.3	2209.7	2272.3	2341.0	2394.8	2420.9	2397.9
57.5°	2113.7	2117.2	2143.3	2175.2	2227.7	2304.2	2408.9	2527.6	2630.9	2696.6	2686.2
60°	2106.8	2106.8	2133.3	2177.1	2250.8	2352.2	2500.4	2664.8	2822.9	2921.2	2906.6
62.5°	2034.2	2038.2	2076.1	2128.8	2217.9	2339.2	2515.7	2725.8	2915.1	3037.2	3025.2
65°	1875.3	1878.0	1919.1	1981.6	2081.1	2224.8	2417.9	2650.5	2867.5	2984.9	2962.7
67.5°	1618.4	1621.0	1654.5	1725.2	1830.3	1980.5	2189.0	2445.0	2657.5	2750.3	2683.6
70°	1287.4	1295.1	1316.7	1391.5	1471.4	1618.4	1810.4	2066.5	2267.0	2354.9	2281.1
72.5°	877.4	896.9	923.1	989.5	1065.9	1188.0	1340.8	1556.6	1717.5	1819.2	1753.6
75°	494.1	521.9	529.9	580.2	643.2	739.5	851.2	1006.0	1168.4	1251.0	1171.9
77.5°	213.5	236.1	246.1	269.6	318.7	359.0	427.0	531.4	656.9	715.0	620.1
80°	105.2	110.6	114.8	122.0	136.0	149.0	181.2	227.0	278.3	291.4	231.9
82.5°	81.4	85.2	92.6	98.3	101.8	105.2	108.3	114.4	119.4	122.1	115.2
85°	57.3	62.1	70.3	76.8	80.6	83.3	86.0	87.9	83.3	76.1	79.8
87.5°	15.0	19.5	27.3	29.6	33.4	35.3	34.6	35.7	32.3	23.4	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°	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
2.5°	495.7	495.3	495.7	495.7	495.6	495.4	495.3	495.4
5°	504.6	504.6	504.9	504.2	504.2	504.6	504.2	503.7
7.5°	519.4	519.1	519.1	518.8	519.1	518.7	518.7	518.3
10°	539.5	538.7	539.1	538.0	538.0	537.5	537.6	537.6
12.5°	560.9	559.8	560.2	559.1	557.1	557.6	558.0	557.5
15°	581.8	580.6	579.4	578.6	577.5	577.9	577.9	577.5
17.5°	602.8	600.6	600.2	599.0	598.6	598.6	598.6	599.0
20°	624.7	623.2	622.8	621.6	621.2	622.4	622.8	622.1
22.5°	648.2	647.4	648.2	647.4	648.6	649.3	649.7	648.9
25°	677.8	676.9	678.1	680.7	682.3	683.1	685.0	684.2
27.5°	715.6	715.0	717.6	721.5	723.7	727.6	729.5	730.3
30°	764.8	768.3	769.9	777.5	779.1	785.2	785.2	787.9
32.5°	836.3	842.8	854.3	866.2	882.8	894.6	894.7	900.7
35°	992.9	995.6	1004.5	1006.3	1009.9	1013.7	1009.9	1012.9
37.5°	1113.1	1101.2	1092.8	1080.9	1073.6	1073.6	1074.3	1073.6
40°	1174.5	1170.0	1166.1	1156.1	1154.6	1154.2	1154.2	1155.7
42.5°	1284.4	1273.3	1267.2	1258.7	1256.0	1255.3	1254.8	1255.5
45°	1427.2	1409.1	1392.7	1384.3	1376.9	1370.0	1372.3	1372.3
47.5°	1593.5	1565.4	1538.6	1524.0	1511.3	1505.5	1501.7	1500.6
50°	1795.8	1756.7	1722.1	1694.8	1676.4	1676.0	1678.0	1665.7
52.5°	2043.9	1982.0	1939.0	1902.2	1884.8	1883.0	1876.8	1870.0
55°	2318.8	2245.4	2174.4	2134.9	2112.2	2099.9	2092.7	2081.1
57.5°	2602.2	2503.5	2401.3	2338.1	2298.1	2270.4	2255.8	2249.3
60°	2820.6	2685.8	2551.1	2449.3	2382.9	2341.8	2316.5	2306.2
62.5°	2906.6	2723.8	2551.1	2417.5	2321.5	2264.7	2230.5	2215.5
65°	2804.1	2587.6	2390.9	2243.5	2136.4	2073.0	2035.7	2019.6
67.5°	2517.6	2326.5	2112.6	1965.9	1855.7	1793.1	1752.8	1740.9
70°	2110.7	1915.3	1710.9	1580.1	1481.7	1430.6	1388.8	1383.8
72.5°	1586.2	1417.6	1242.5	1134.2	1055.1	970.7	949.2	959.9
75°	1016.8	859.0	703.1	605.5	533.4	452.7	421.6	429.3
77.5°	481.5	372.8	269.2	208.2	174.7	149.4	142.9	139.0
80°	178.5	144.7	127.8	121.3	116.7	112.5	109.4	106.0
82.5°	115.5	112.9	109.4	108.3	104.8	99.4	89.5	85.2
85°	86.4	86.4	81.9	82.1	79.4	72.6	63.3	58.3
87.5°	25.3	22.7	20.7	19.3	18.8	16.9	12.3	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)