

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: P179977

Luminaire Tested: **ICM-E03-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179977
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-E03-LED-E1-5MQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8217.1 lumens
Efficiency: N/A
Efficacy: 109.3 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

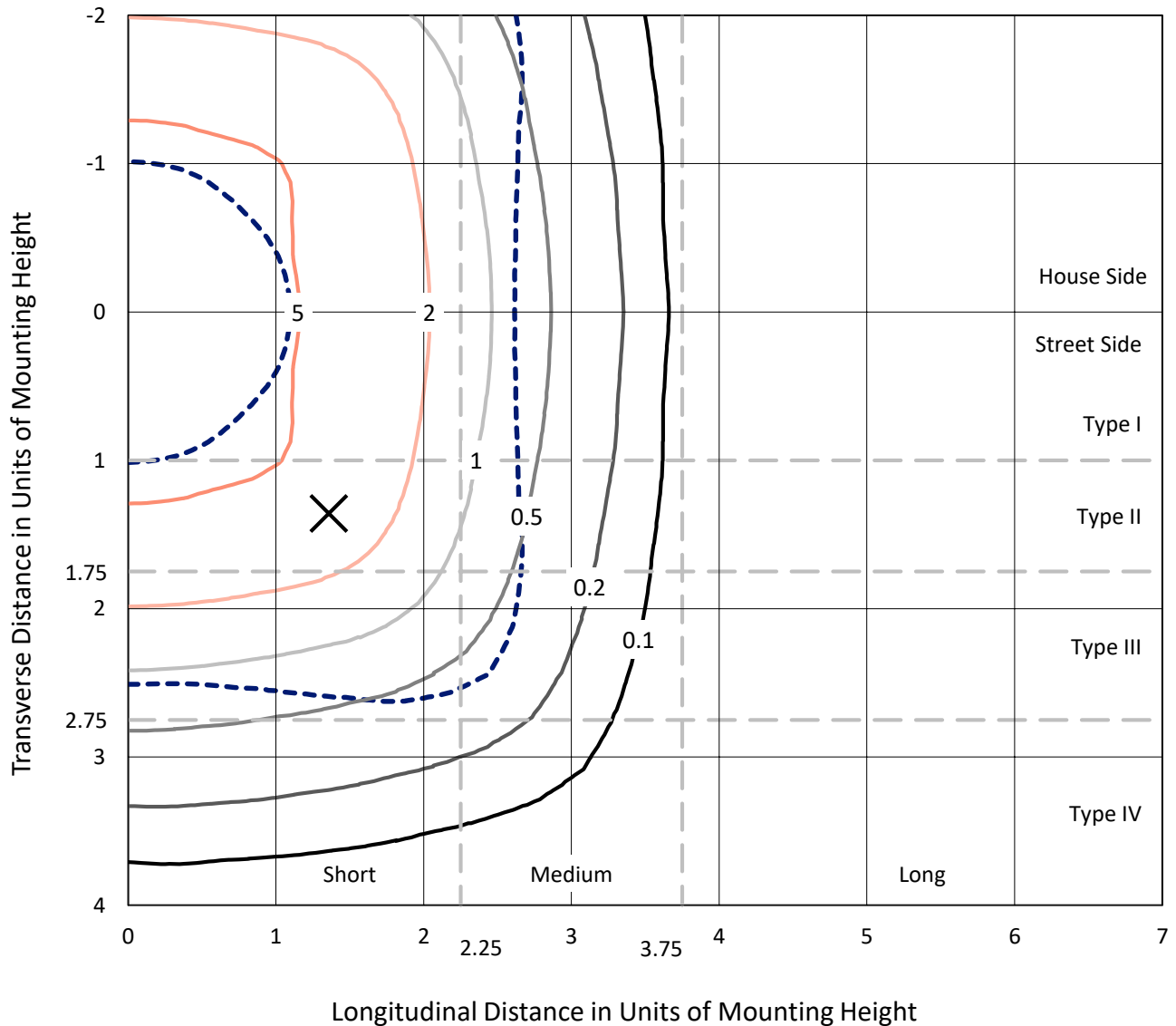
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

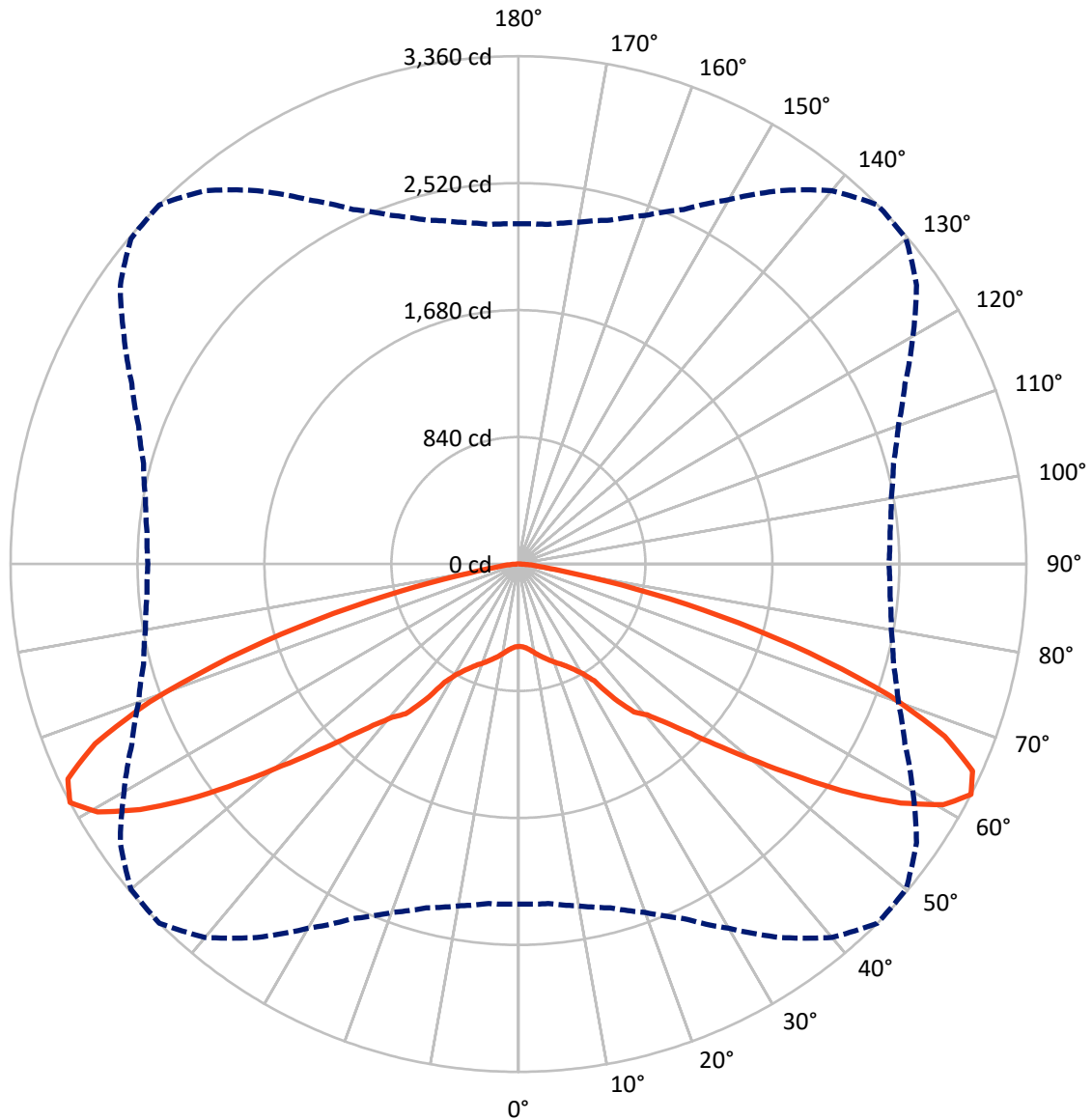
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	4108.5	0.0	4108.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4108.5	0.0	4108.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8217.1	0.0	8217.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	0.7
10°-20°	184.8	2.2
20°-30°	357.3	4.3
30°-40°	691.7	8.4
40°-50°	1249.0	15.2
50°-60°	2171.9	26.4
60°-70°	2465.6	30.0
70°-80°	955.9	11.6
80°-90°	86.2	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°	8217.1	100.0
0°-180°	8217.1	100.0



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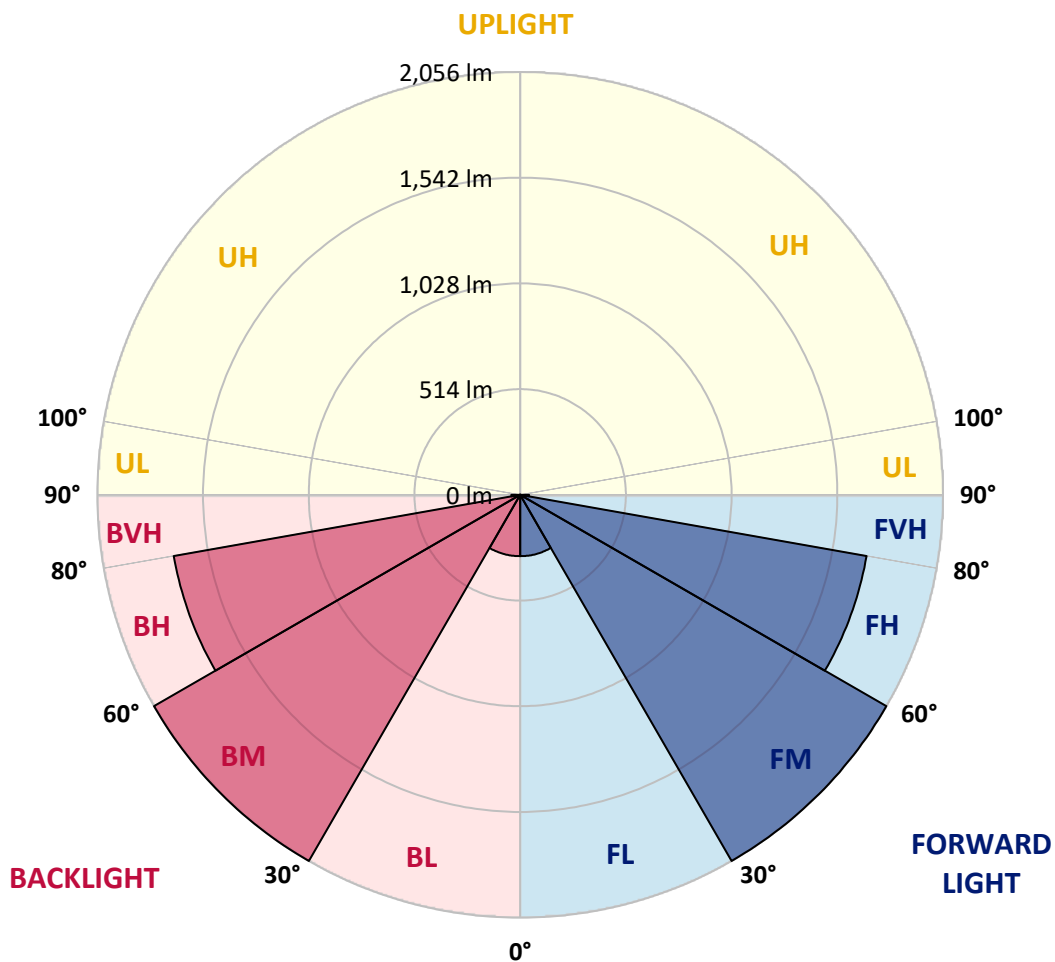
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.4	3.6			
FM	(30°-60°)	2056.3	25.0			
FH	(60°-80°)	1710.8	20.8			G1/1800
FVH	(80°-90°)	43.1	0.5			G1/100
BL	(0°-30°)	298.4	3.6	B1/500		
BM	(30°-60°)	2056.3	25.0	B2/2500		
BH	(60°-80°)	1710.8	20.8	B3/2500		G1/1800
BVH	(80°-90°)	43.1	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°	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
2.5°	548.8	550.5	550.0	549.2	549.2	549.3	548.8	547.6	547.2	548.0	548.8
5°	561.6	561.6	561.6	561.6	560.7	560.7	559.9	559.1	559.4	558.6	558.1
7.5°	581.2	579.9	579.8	579.4	579.4	578.6	577.3	575.6	576.0	575.6	575.3
10°	604.1	604.5	603.3	604.5	602.4	602.0	600.2	599.4	599.0	597.8	597.8
12.5°	631.6	630.4	630.4	629.6	628.7	627.9	625.3	624.9	623.3	622.3	621.0
15°	657.7	657.1	655.5	653.8	653.3	652.5	649.5	647.8	647.4	645.3	643.6
17.5°	683.5	682.7	680.6	679.7	678.1	676.7	674.2	671.6	670.4	669.5	667.4
20°	711.1	710.3	708.1	706.4	704.4	702.6	698.8	696.7	695.4	694.1	692.5
22.5°	745.5	743.8	740.5	737.5	732.8	731.2	726.0	723.0	720.9	719.3	718.3
25°	782.9	783.4	778.7	774.9	769.3	764.7	758.3	754.9	752.7	751.1	750.7
27.5°	829.6	830.1	825.9	820.3	811.9	806.7	798.2	794.1	792.7	791.0	790.6
30°	903.6	899.7	892.5	883.6	875.9	864.9	852.7	848.4	844.1	842.8	842.8
32.5°	1039.4	1037.4	1031.4	1009.3	999.2	976.2	954.6	942.2	928.2	921.5	917.2
35°	1134.7	1133.9	1129.1	1121.5	1115.2	1110.5	1097.7	1095.6	1093.0	1093.0	1096.5
37.5°	1204.8	1199.6	1198.9	1200.1	1198.3	1199.3	1209.5	1223.4	1235.4	1241.3	1240.5
40°	1308.5	1301.2	1305.5	1302.5	1298.6	1297.9	1301.2	1306.7	1312.2	1312.2	1311.0
42.5°	1443.9	1447.4	1449.0	1436.8	1428.7	1426.6	1434.6	1432.9	1438.4	1436.4	1430.7
45°	1645.3	1643.2	1640.2	1625.3	1612.7	1602.4	1604.5	1601.6	1602.0	1598.5	1594.4
47.5°	1848.4	1855.6	1843.4	1836.1	1821.6	1814.3	1820.3	1815.3	1824.9	1807.2	1798.7
50°	2045.5	2050.6	2046.3	2036.2	2036.2	2046.3	2053.6	2062.9	2076.5	2056.1	2025.5
52.5°	2206.9	2211.2	2217.5	2226.1	2246.9	2268.5	2299.2	2331.8	2357.8	2353.9	2319.1
55°	2305.5	2310.6	2321.1	2350.5	2387.9	2444.9	2514.1	2590.2	2649.6	2678.5	2653.0
57.5°	2338.6	2342.4	2371.4	2406.5	2464.8	2549.3	2665.3	2796.5	2910.8	2983.5	2972.0
60°	2331.0	2331.0	2360.3	2408.8	2490.2	2602.4	2766.3	2948.2	3123.3	3232.0	3215.8
62.5°	2250.6	2254.9	2296.9	2355.2	2453.8	2588.0	2783.5	3015.8	3225.2	3360.3	3347.2
65°	2074.8	2077.8	2123.2	2192.5	2302.5	2461.4	2675.1	2932.6	3172.5	3302.5	3277.9
67.5°	1790.6	1793.5	1830.5	1908.7	2025.1	2191.3	2421.9	2705.2	2940.1	3043.0	2969.0
70°	1424.4	1432.9	1456.7	1539.5	1627.9	1790.6	2003.0	2286.3	2508.1	2605.4	2523.8
72.5°	970.7	992.4	1021.2	1094.7	1179.4	1314.4	1483.5	1722.2	1900.3	2012.8	1940.1
75°	546.7	577.3	586.2	641.9	711.5	818.2	941.8	1113.0	1292.8	1384.1	1296.6
77.5°	236.2	261.2	272.3	298.2	352.6	397.2	472.4	587.9	726.9	791.0	686.1
80°	116.5	122.3	127.0	135.1	150.3	164.8	200.6	251.1	308.0	322.4	256.6
82.5°	90.0	94.3	102.3	108.7	112.6	116.5	119.8	126.6	132.1	135.1	127.4
85°	63.3	68.8	77.8	85.0	89.2	92.1	95.2	97.3	92.2	84.1	88.4
87.5°	16.6	21.7	30.1	32.7	37.0	39.1	38.2	39.4	35.7	25.9	28.8
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°	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
2.5°	548.5	548.1	548.5	548.5	548.5	548.1	548.0	548.0
5°	558.2	558.1	558.7	557.8	557.8	558.2	557.8	557.4
7.5°	574.8	574.3	574.3	574.0	574.3	574.0	574.0	573.5
10°	596.8	596.0	596.5	595.2	595.2	594.8	594.8	594.7
12.5°	620.7	619.4	619.8	618.6	616.4	616.8	617.3	616.8
15°	643.5	642.3	641.1	640.2	638.9	639.4	639.4	638.9
17.5°	667.0	664.4	664.0	662.7	662.3	662.3	662.3	662.7
20°	691.2	689.5	689.0	687.7	687.4	688.6	689.1	688.2
22.5°	717.1	716.2	717.1	716.3	717.6	718.3	718.8	718.0
25°	749.8	749.0	750.1	753.2	754.9	755.7	758.0	757.0
27.5°	791.8	791.0	794.1	798.2	800.7	805.0	807.1	808.0
30°	846.2	850.1	851.7	860.3	862.0	868.7	868.7	871.7
32.5°	925.2	932.5	945.2	958.3	976.7	989.8	989.9	996.7
35°	1098.5	1101.6	1111.4	1113.5	1117.2	1121.5	1117.2	1120.7
37.5°	1231.5	1218.4	1209.0	1195.9	1187.7	1187.7	1188.7	1187.8
40°	1299.4	1294.4	1290.2	1279.2	1277.4	1277.0	1277.0	1278.7
42.5°	1421.0	1408.8	1401.9	1392.6	1389.6	1388.8	1388.3	1389.1
45°	1579.1	1559.1	1540.8	1531.5	1523.4	1515.7	1518.2	1518.3
47.5°	1763.0	1731.9	1702.2	1686.1	1672.1	1665.7	1661.4	1660.2
50°	1986.9	1943.5	1905.3	1875.2	1854.7	1854.3	1856.5	1842.9
52.5°	2261.3	2192.9	2145.3	2104.6	2085.4	2083.3	2076.5	2068.8
55°	2565.4	2484.3	2405.7	2362.0	2336.9	2323.4	2315.3	2302.5
57.5°	2879.0	2769.8	2656.8	2586.7	2542.5	2511.9	2495.8	2488.6
60°	3120.8	2971.6	2822.4	2709.9	2636.5	2591.0	2562.9	2551.5
62.5°	3215.8	3013.6	2822.5	2674.6	2568.4	2505.5	2467.7	2451.2
65°	3102.4	2862.8	2645.3	2482.2	2363.7	2293.6	2252.4	2234.5
67.5°	2785.5	2574.0	2337.3	2175.1	2053.1	1983.8	1939.3	1926.2
70°	2335.3	2119.0	1893.0	1748.1	1639.4	1582.9	1536.6	1531.1
72.5°	1754.9	1568.4	1374.7	1254.9	1167.4	1073.9	1050.1	1062.1
75°	1124.9	950.3	777.9	670.0	590.1	500.8	466.4	475.0
77.5°	532.7	412.5	297.9	230.2	193.3	165.2	158.0	153.8
80°	197.6	160.1	141.4	134.2	129.2	124.5	121.1	117.2
82.5°	127.8	124.8	121.1	119.8	116.0	110.0	99.0	94.3
85°	95.6	95.6	90.4	91.0	88.0	80.3	70.1	64.6
87.5°	28.1	25.1	22.9	21.2	20.8	18.7	13.6	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)