

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: P140278

Luminaire Tested: **ECM-E03-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140278
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-5MQ-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7732.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

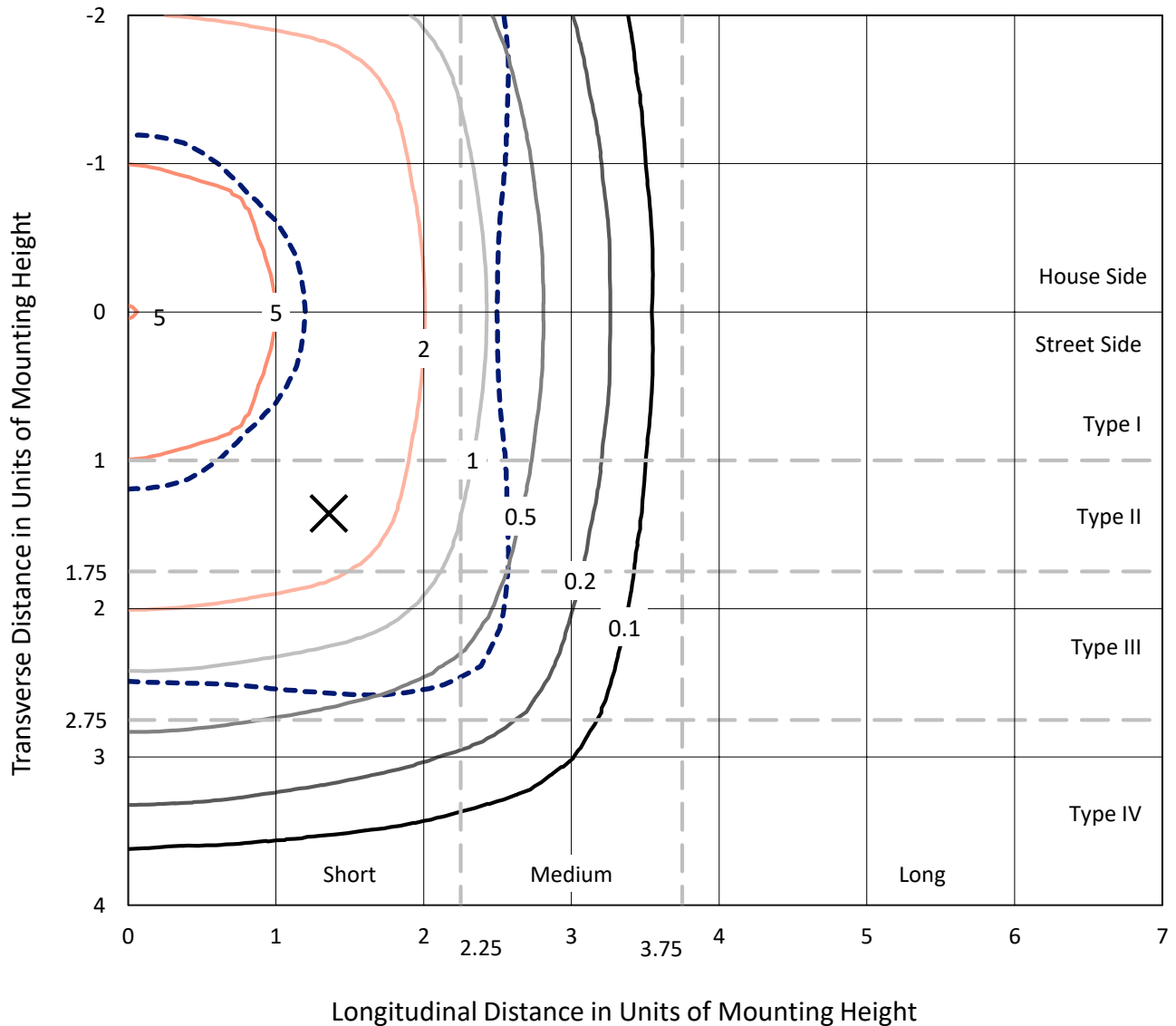
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140278
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Iso-Footcandle Lines of Horizontal Illumination

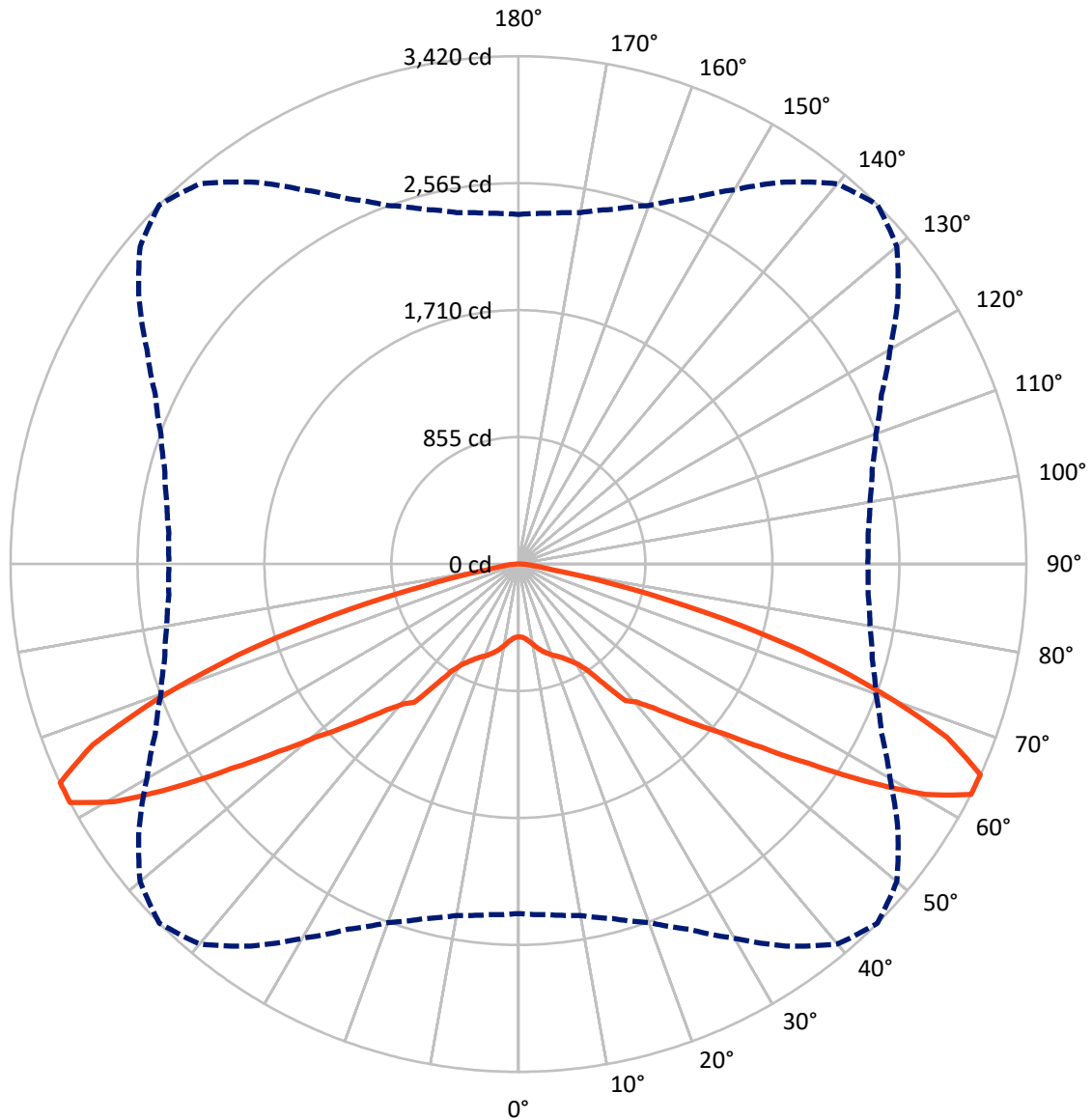
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P140278
CATALOG NUMBER: ECM-E03-LED-E1-5MQ-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P140278

CATALOG NUMBER: ECM-E03-LED-E1-5MQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3866.0	0.0	3866.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3866.0	0.0	3866.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7732.1	0.0	7732.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	0.6
10°-20°	173.7	2.2
20°-30°	333.7	4.3
30°-40°	642.0	8.3
40°-50°	1117.4	14.5
50°-60°	2007.0	26.0
60°-70°	2460.3	31.8
70°-80°	867.7	11.2
80°-90°	80.2	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°	7732.1	100.0
0°-180°	7732.1	100.0



REPORT NUMBER: P140278

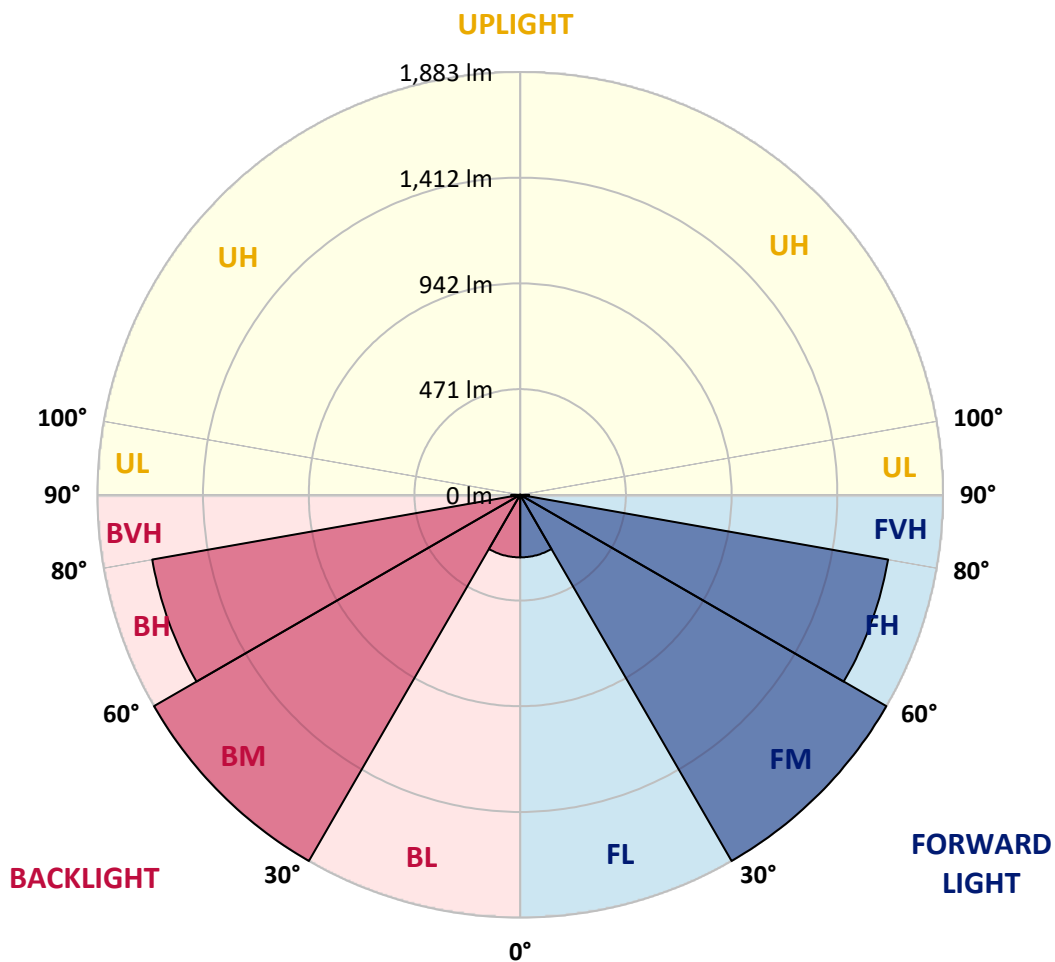
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.7	3.6			
FM	(30°-60°)	1883.2	24.4			
FH	(60°-80°)	1664.0	21.5			G1/1800
FVH	(80°-90°)	40.1	0.5			G1/100
BL	(0°-30°)	278.7	3.6	B1/500		
BM	(30°-60°)	1883.2	24.4	B2/2500		
BH	(60°-80°)	1664.0	21.5	B3/2500		G1/1800
BVH	(80°-90°)	40.1	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





REPORT NUMBER: P140278
 CATALOG NUMBER: ECM-E03-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	490.4	490.4	490.4	490.4	490.4	490.4	490.4	490.4	490.4	490.4	490.4
2.5°	496.3	496.3	495.4	494.6	494.6	494.6	493.7	493.7	494.6	492.9	492.9
5°	508.9	509.8	508.9	508.1	507.2	507.2	506.4	506.4	507.2	505.6	504.7
7.5°	532.6	533.4	531.7	530.9	530.0	529.2	528.3	527.5	528.3	525.8	525.8
10°	562.9	562.9	562.9	559.6	559.6	557.0	556.2	554.5	555.3	552.8	552.8
12.5°	593.3	593.3	592.5	590.8	589.9	588.3	586.6	586.6	584.9	581.5	579.8
15°	620.3	621.2	620.3	617.8	617.0	614.4	614.4	612.7	610.2	608.5	606.8
17.5°	645.7	646.5	644.0	643.1	640.6	638.9	637.2	636.4	634.7	632.1	631.3
20°	670.1	669.3	666.8	663.4	661.7	660.0	658.3	657.5	656.6	654.9	654.9
22.5°	693.8	693.8	691.2	686.2	682.8	681.1	678.6	676.9	675.2	674.3	676.0
25°	729.2	728.4	723.3	718.2	712.3	707.3	703.9	703.0	701.4	701.4	702.2
27.5°	774.8	773.1	765.5	758.7	752.0	745.2	741.0	737.6	736.8	736.0	736.0
30°	832.2	829.6	822.9	814.5	806.9	798.4	790.0	787.4	783.2	779.8	785.8
32.5°	941.9	943.6	930.1	913.2	896.3	880.3	865.9	855.0	848.2	849.1	849.1
35°	1062.6	1063.4	1057.5	1050.8	1045.7	1036.4	1020.4	1006.9	996.8	985.8	990.8
37.5°	1114.9	1115.8	1110.7	1109.8	1113.2	1119.1	1135.2	1147.0	1164.7	1167.2	1162.2
40°	1206.9	1202.7	1195.9	1194.2	1191.7	1200.2	1206.9	1212.8	1215.3	1220.4	1215.3
42.5°	1303.1	1301.4	1296.4	1290.5	1290.5	1292.2	1303.1	1312.4	1318.3	1319.2	1318.3
45°	1411.2	1408.6	1404.4	1403.6	1406.1	1413.7	1421.3	1433.1	1451.7	1452.5	1451.7
47.5°	1530.2	1531.8	1525.1	1527.6	1531.8	1544.5	1565.6	1585.0	1605.3	1612.9	1603.6
50°	1693.0	1687.1	1687.1	1684.6	1695.6	1714.1	1739.5	1762.3	1790.9	1797.7	1783.4
52.5°	1914.2	1901.5	1904.0	1897.3	1903.2	1920.1	1961.4	1996.9	2033.2	2050.9	2023.0
55°	2180.0	2158.9	2161.5	2168.2	2173.3	2202.0	2254.3	2294.8	2363.2	2369.1	2337.0
57.5°	2397.8	2391.9	2395.2	2411.3	2443.4	2493.1	2559.0	2656.9	2741.3	2761.5	2726.9
60°	2477.1	2481.3	2505.0	2547.2	2607.9	2696.6	2824.8	2977.6	3111.8	3152.3	3100.0
62.5°	2353.9	2370.8	2402.8	2472.9	2569.1	2713.4	2910.1	3140.5	3341.4	3419.9	3326.2
65°	2113.4	2124.3	2176.7	2236.6	2360.6	2526.1	2767.4	3067.1	3314.4	3418.2	3313.5
67.5°	1797.7	1818.8	1864.4	1938.6	2045.8	2213.8	2467.0	2773.4	3021.5	3112.6	3020.6
70°	1443.2	1452.5	1481.2	1539.4	1650.8	1799.4	2016.3	2290.6	2532.0	2589.4	2515.9
72.5°	1001.0	1019.5	1044.0	1097.2	1167.2	1293.0	1471.9	1673.6	1867.8	1986.8	1878.7
75°	431.3	406.8	460.8	514.0	600.1	716.5	856.7	1022.1	1214.5	1293.8	1187.5
77.5°	129.1	128.3	136.7	151.9	182.3	241.4	338.4	449.8	598.4	649.9	557.9
80°	105.5	108.9	112.3	115.6	119.0	123.2	130.8	152.8	187.4	221.1	179.8
82.5°	89.5	93.7	103.0	108.0	110.6	111.4	111.4	110.6	106.3	104.7	103.8
85°	67.5	74.3	86.9	94.5	94.5	94.5	94.5	92.0	86.1	76.0	84.4
87.5°	22.8	30.4	50.6	54.0	55.7	51.5	54.0	54.9	45.6	34.6	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140278

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	490.4	490.4	490.4	490.4	490.4	490.4	490.4	490.4
2.5°	492.9	492.9	492.9	493.7	492.9	492.9	492.9	492.9
5°	505.6	504.7	505.6	504.7	505.6	505.6	504.7	505.6
7.5°	525.0	525.0	525.8	525.8	525.0	525.0	525.0	525.0
10°	551.1	549.4	550.3	550.3	550.3	549.4	549.4	548.6
12.5°	578.1	576.4	576.4	576.4	576.4	575.6	576.4	576.4
15°	603.5	601.8	600.1	600.1	600.9	601.8	601.8	600.9
17.5°	627.9	626.2	623.7	623.7	622.9	624.6	626.2	625.4
20°	652.4	651.6	647.3	647.3	647.3	649.0	649.9	652.4
22.5°	676.9	676.0	672.7	671.8	672.7	676.0	678.6	678.6
25°	703.0	704.7	703.9	703.9	705.6	710.6	713.2	716.5
27.5°	740.2	743.6	744.4	747.8	748.6	754.5	758.7	763.8
30°	788.3	794.2	797.6	803.5	807.7	811.1	817.0	821.2
32.5°	855.0	869.3	886.2	905.6	914.0	929.2	936.0	937.7
35°	1008.6	1023.8	1038.1	1046.5	1043.2	1047.4	1047.4	1050.8
37.5°	1147.0	1131.8	1119.1	1116.6	1109.8	1107.3	1108.2	1110.7
40°	1211.1	1203.5	1198.5	1201.0	1197.6	1195.1	1196.8	1197.6
42.5°	1314.9	1303.1	1298.9	1298.1	1296.4	1298.1	1302.3	1300.6
45°	1436.5	1421.3	1415.4	1414.5	1412.0	1411.2	1412.8	1416.2
47.5°	1582.5	1563.9	1545.3	1539.4	1539.4	1534.4	1537.8	1532.7
50°	1761.4	1731.0	1711.6	1700.6	1693.9	1686.3	1693.0	1682.1
52.5°	1996.9	1953.8	1932.7	1918.4	1899.0	1899.8	1901.5	1897.3
55°	2294.0	2246.7	2205.3	2177.5	2165.7	2158.9	2157.2	2170.7
57.5°	2635.8	2552.2	2486.4	2437.4	2418.9	2393.6	2381.7	2381.7
60°	2960.7	2808.8	2678.0	2596.1	2535.3	2492.3	2463.6	2455.2
62.5°	3119.4	2889.0	2697.4	2562.4	2466.1	2404.5	2363.2	2352.2
65°	3051.0	2758.2	2532.8	2380.9	2269.5	2190.2	2142.0	2128.5
67.5°	2775.9	2469.5	2232.4	2079.6	1959.7	1873.7	1837.4	1822.2
70°	2304.9	2023.9	1818.0	1668.6	1543.7	1471.1	1421.3	1401.0
72.5°	1656.8	1443.2	1254.2	1125.9	1013.6	975.7	908.1	901.4
75°	979.0	793.4	637.2	539.3	438.9	384.0	352.8	319.0
77.5°	398.4	284.4	213.5	161.2	138.4	125.8	119.8	118.2
80°	135.9	121.5	114.8	112.3	108.9	107.2	103.0	99.6
82.5°	107.2	106.3	103.0	102.1	98.7	93.7	85.2	80.2
85°	89.5	87.8	83.6	82.7	80.2	73.4	64.1	58.2
87.5°	50.6	46.4	42.2	43.0	40.5	35.4	26.2	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)