

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: P140439

Luminaire Tested: **ECM-E03-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140439
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-5WQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8185.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

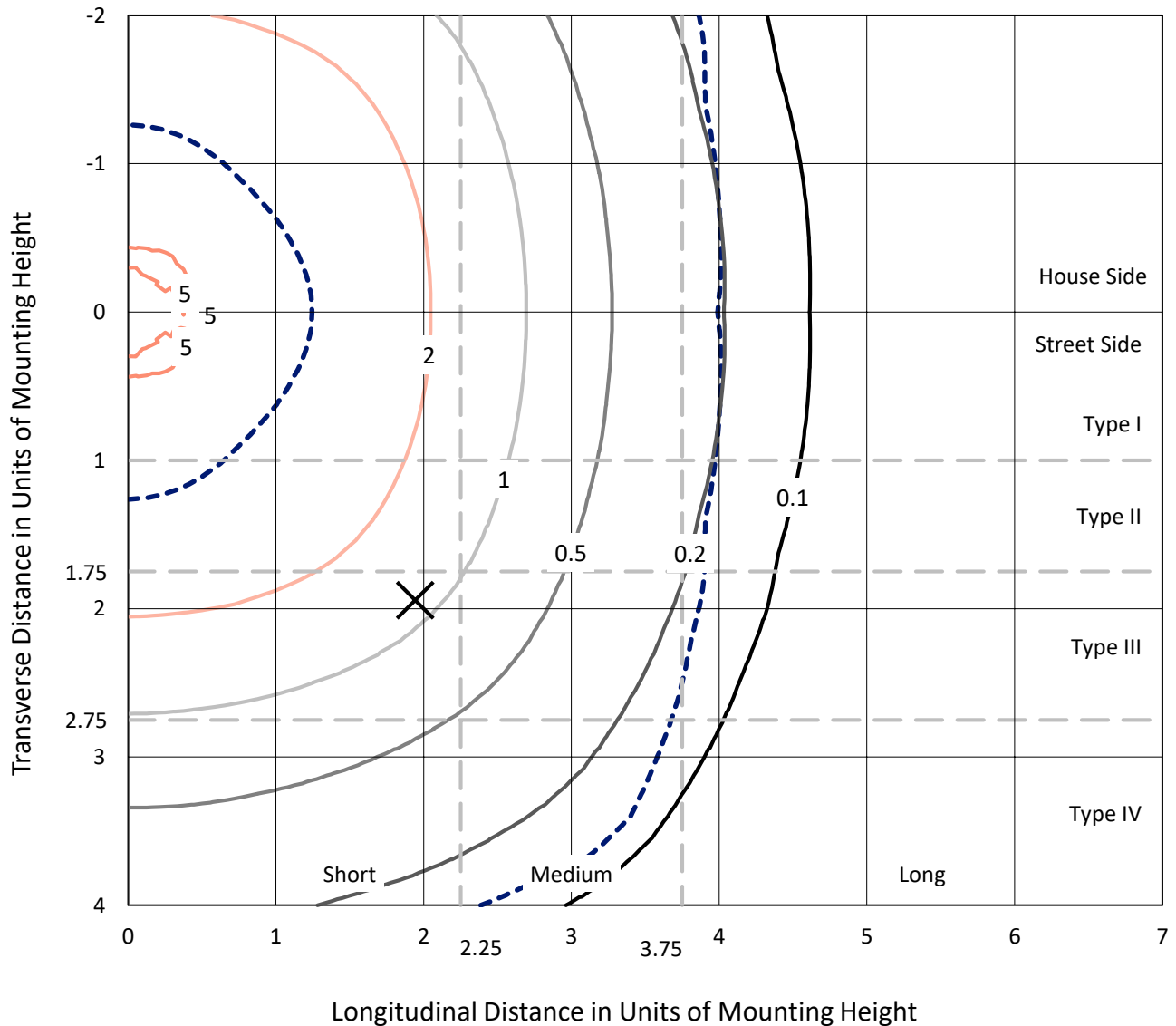
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

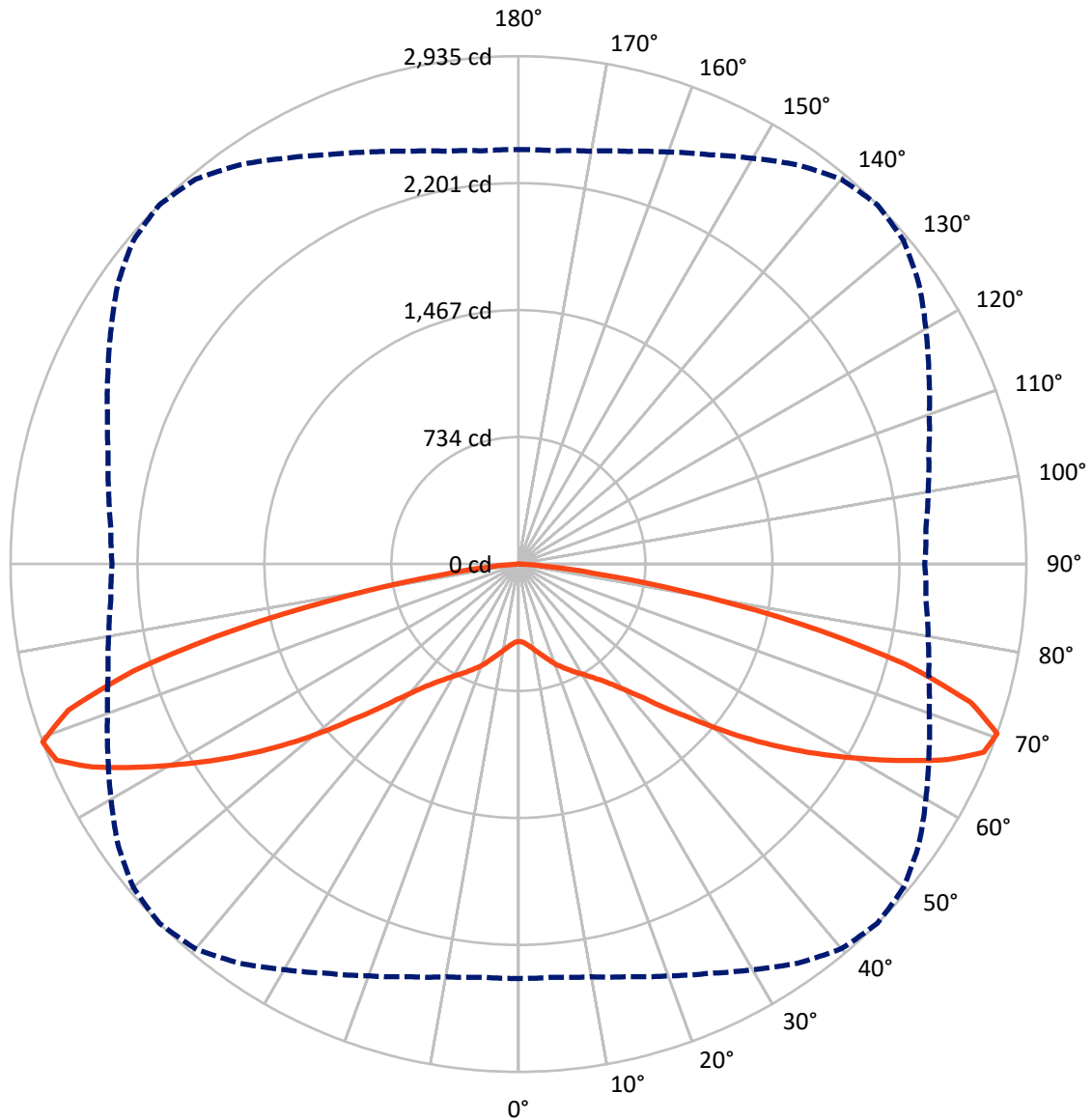
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4092.7	0.0	4092.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4092.7	0.0	4092.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8185.5	0.0	8185.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	0.6
10°-20°	158.5	1.9
20°-30°	311.4	3.8
30°-40°	515.3	6.3
40°-50°	902.1	11.0
50°-60°	1609.0	19.7
60°-70°	2484.0	30.3
70°-80°	1966.3	24.0
80°-90°	193.5	2.4
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°	8185.5	100.0
0°-180°	8185.5	100.0



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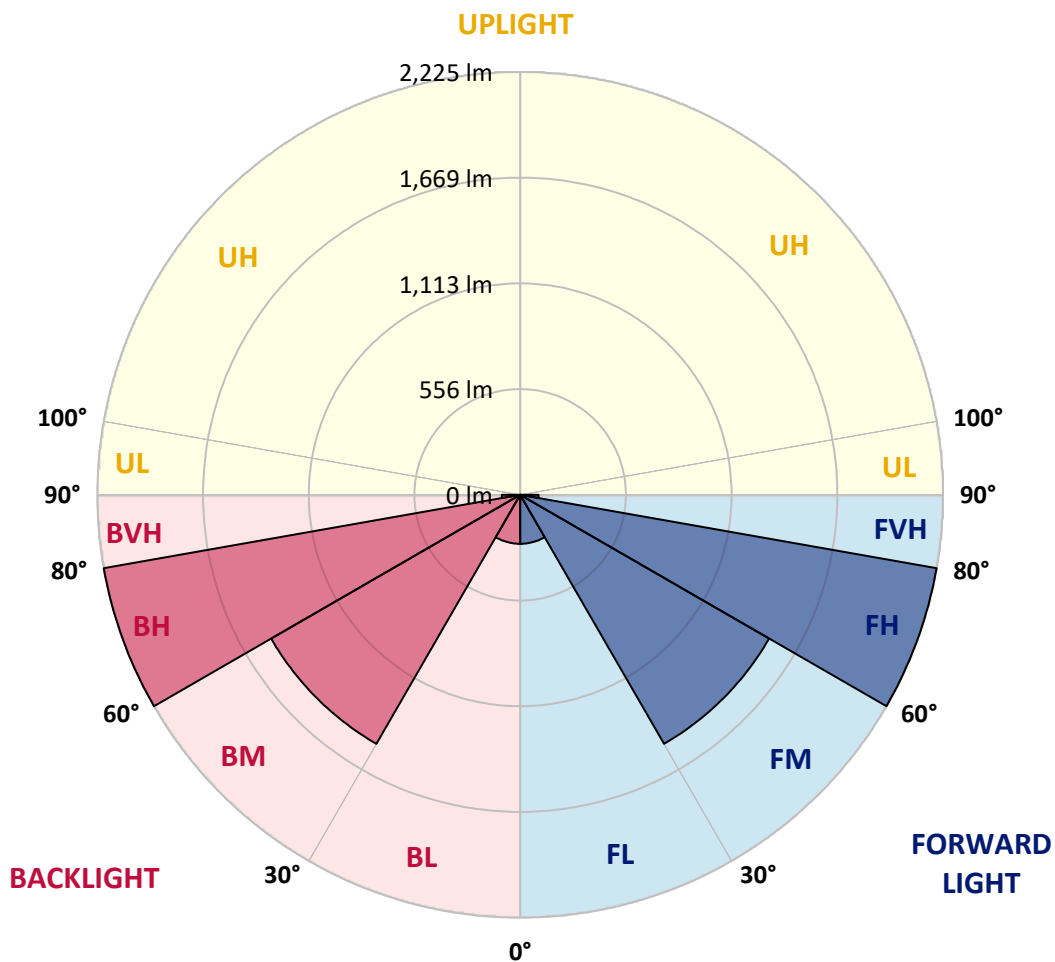
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.7	3.1			
FM	(30°-60°)	1513.2	18.5			
FH	(60°-80°)	2225.1	27.2			G2/5000
FVH	(80°-90°)	96.7	1.2			G1/100
BL	(0°-30°)	257.7	3.1	B1/500		
BM	(30°-60°)	1513.2	18.5	B2/2500		
BH	(60°-80°)	2225.1	27.2	B3/2500		G2/5000
BVH	(80°-90°)	96.7	1.2			G1/100
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°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
2.5°	453.0	453.0	452.1	452.1	452.1	452.1	451.2	451.2	452.1	451.2	451.2
5°	464.0	464.9	464.9	464.0	464.0	464.0	464.0	464.0	464.9	464.0	464.0
7.5°	480.4	481.3	481.3	480.4	480.4	480.4	480.4	480.4	481.3	481.3	479.5
10°	500.5	501.4	501.4	500.5	500.5	501.4	501.4	501.4	502.3	502.3	501.4
12.5°	524.3	525.2	526.1	525.2	526.1	526.1	527.0	527.9	527.9	527.9	526.1
15°	551.7	554.4	552.6	552.6	553.5	554.4	554.4	557.1	556.2	555.3	554.4
17.5°	583.6	582.7	582.7	583.6	584.5	583.6	584.5	587.3	586.4	585.5	584.5
20°	613.8	613.8	613.8	612.9	614.7	614.7	615.6	616.5	616.5	618.3	615.6
22.5°	643.0	643.0	642.1	642.1	643.9	643.9	645.7	647.6	647.6	647.6	645.7
25°	670.4	670.4	671.3	670.4	671.3	672.2	674.1	675.9	676.8	676.8	676.8
27.5°	695.1	697.8	696.9	697.8	699.6	701.5	703.3	706.0	707.8	708.8	706.0
30°	726.1	726.1	725.2	726.1	727.9	730.7	734.3	738.9	738.9	739.8	739.8
32.5°	759.0	759.9	758.1	759.9	762.6	766.3	770.0	773.6	775.4	779.1	778.2
35°	801.9	799.2	800.1	802.8	804.7	808.3	812.9	819.3	822.9	824.8	822.9
37.5°	851.2	850.3	852.2	852.2	858.5	862.2	870.4	875.9	878.6	883.2	881.4
40°	913.4	917.0	917.9	920.7	924.3	931.6	940.8	949.9	955.4	959.0	959.9
42.5°	997.4	999.2	995.6	1005.6	1015.6	1020.2	1031.2	1044.0	1052.2	1054.9	1055.8
45°	1100.6	1100.6	1106.1	1112.5	1125.2	1134.4	1146.3	1167.3	1174.6	1184.6	1184.6
47.5°	1223.9	1227.5	1227.5	1242.2	1252.2	1270.5	1293.3	1310.7	1326.2	1321.6	1337.1
50°	1366.4	1369.1	1379.2	1387.4	1404.7	1425.7	1446.7	1472.3	1495.2	1497.9	1500.6
52.5°	1515.2	1518.9	1527.1	1546.3	1567.3	1591.1	1629.4	1651.3	1673.3	1685.1	1683.3
55°	1686.0	1684.2	1697.9	1712.5	1743.6	1775.6	1807.5	1838.6	1861.4	1877.8	1876.9
57.5°	1865.1	1871.5	1887.0	1905.2	1931.7	1960.0	1998.4	2029.5	2066.9	2077.0	2062.3
60°	2073.3	2066.9	2082.4	2110.8	2134.5	2171.0	2204.8	2245.0	2271.5	2283.4	2278.8
62.5°	2286.1	2280.6	2292.5	2329.0	2357.4	2383.8	2430.4	2474.3	2496.2	2500.8	2492.5
65°	2442.3	2444.1	2463.3	2495.3	2540.0	2580.2	2632.3	2685.2	2720.0	2725.4	2707.2
67.5°	2478.8	2482.5	2509.0	2550.1	2605.8	2672.5	2750.1	2828.6	2888.0	2900.8	2874.3
70°	2394.8	2396.6	2422.2	2468.8	2532.7	2609.4	2706.3	2814.9	2901.7	2934.6	2905.4
72.5°	2222.2	2229.5	2250.5	2289.8	2340.0	2415.8	2509.0	2605.8	2691.6	2733.7	2733.7
75°	1910.7	1927.2	1937.2	1950.0	1993.8	2055.0	2130.8	2207.6	2283.4	2307.1	2240.4
77.5°	1363.6	1336.2	1342.6	1413.9	1403.8	1473.2	1557.3	1612.1	1679.7	1669.6	1573.7
80°	625.6	610.1	645.7	693.2	753.5	800.1	890.5	899.7	977.3	981.9	912.4
82.5°	125.1	131.5	157.1	193.6	241.1	293.2	340.7	380.9	433.8	443.9	411.9
85°	39.3	42.9	53.9	59.4	62.1	71.2	81.3	109.6	126.0	130.6	122.4
87.5°	8.2	12.8	21.0	23.7	24.7	23.7	23.7	22.8	18.3	14.6	17.4
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°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
2.5°	450.3	450.3	451.2	451.2	451.2	450.3	449.4	450.3
5°	463.1	463.1	463.1	463.1	461.2	461.2	460.3	460.3
7.5°	479.5	478.6	478.6	477.7	476.8	476.8	475.9	476.8
10°	501.4	499.6	498.7	497.8	496.9	496.9	495.9	495.0
12.5°	525.2	524.3	523.3	521.5	520.6	518.8	518.8	518.8
15°	552.6	551.7	550.8	548.0	548.0	545.3	546.2	546.2
17.5°	582.7	580.9	578.2	577.2	576.3	573.6	573.6	573.6
20°	613.8	610.1	608.3	606.5	606.5	603.7	602.8	602.8
22.5°	643.9	640.3	636.6	634.8	633.0	632.0	630.2	629.3
25°	674.1	670.4	666.7	664.0	660.4	658.5	656.7	656.7
27.5°	704.2	700.5	695.1	691.4	687.8	684.1	682.3	683.2
30°	735.2	731.6	726.1	721.5	717.0	713.3	711.5	710.6
32.5°	774.5	770.0	763.6	759.0	750.8	747.1	745.3	746.2
35°	820.2	813.8	809.2	801.9	795.5	791.0	788.2	788.2
37.5°	878.6	873.2	868.6	861.3	852.2	846.7	843.0	845.8
40°	954.5	949.9	940.8	929.8	922.5	917.9	914.3	915.2
42.5°	1051.3	1042.1	1033.9	1027.5	1016.6	1010.2	1000.1	1003.8
45°	1173.7	1163.6	1155.4	1145.3	1135.3	1122.5	1118.9	1111.5
47.5°	1321.6	1314.3	1296.0	1286.9	1274.1	1255.9	1246.7	1239.4
50°	1485.1	1471.4	1458.6	1435.8	1421.2	1400.2	1391.9	1389.2
52.5°	1669.6	1646.8	1625.8	1604.8	1575.5	1555.4	1539.0	1542.6
55°	1852.3	1825.8	1795.6	1772.8	1750.0	1725.3	1708.0	1697.9
57.5°	2045.0	2015.8	1983.8	1950.9	1931.7	1902.5	1891.5	1886.1
60°	2243.2	2216.7	2184.7	2154.6	2128.1	2094.3	2076.0	2068.7
62.5°	2462.4	2425.9	2387.5	2350.1	2320.8	2296.2	2277.0	2264.2
65°	2664.2	2614.0	2574.7	2527.2	2495.3	2459.7	2435.9	2431.3
67.5°	2814.9	2737.3	2668.8	2607.6	2558.3	2514.5	2484.3	2472.4
70°	2825.0	2718.1	2616.7	2526.3	2454.2	2403.9	2363.8	2348.2
72.5°	2629.5	2497.1	2360.1	2271.5	2194.8	2125.4	2097.1	2090.7
75°	2139.1	2028.6	1914.4	1813.9	1760.9	1726.2	1702.5	1667.8
77.5°	1486.0	1384.6	1323.4	1211.1	1191.0	1162.7	1138.9	1116.1
80°	832.1	743.5	675.0	604.6	561.7	538.0	513.3	499.6
82.5°	373.6	306.9	243.9	189.1	156.2	123.3	92.2	97.7
85°	93.2	78.5	60.3	50.2	45.7	42.0	33.8	30.1
87.5°	17.4	16.4	14.6	14.6	15.5	12.8	7.3	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)