

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: P180191

Luminaire Tested: **ICM-F04-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180191
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-5XQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8245.2 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

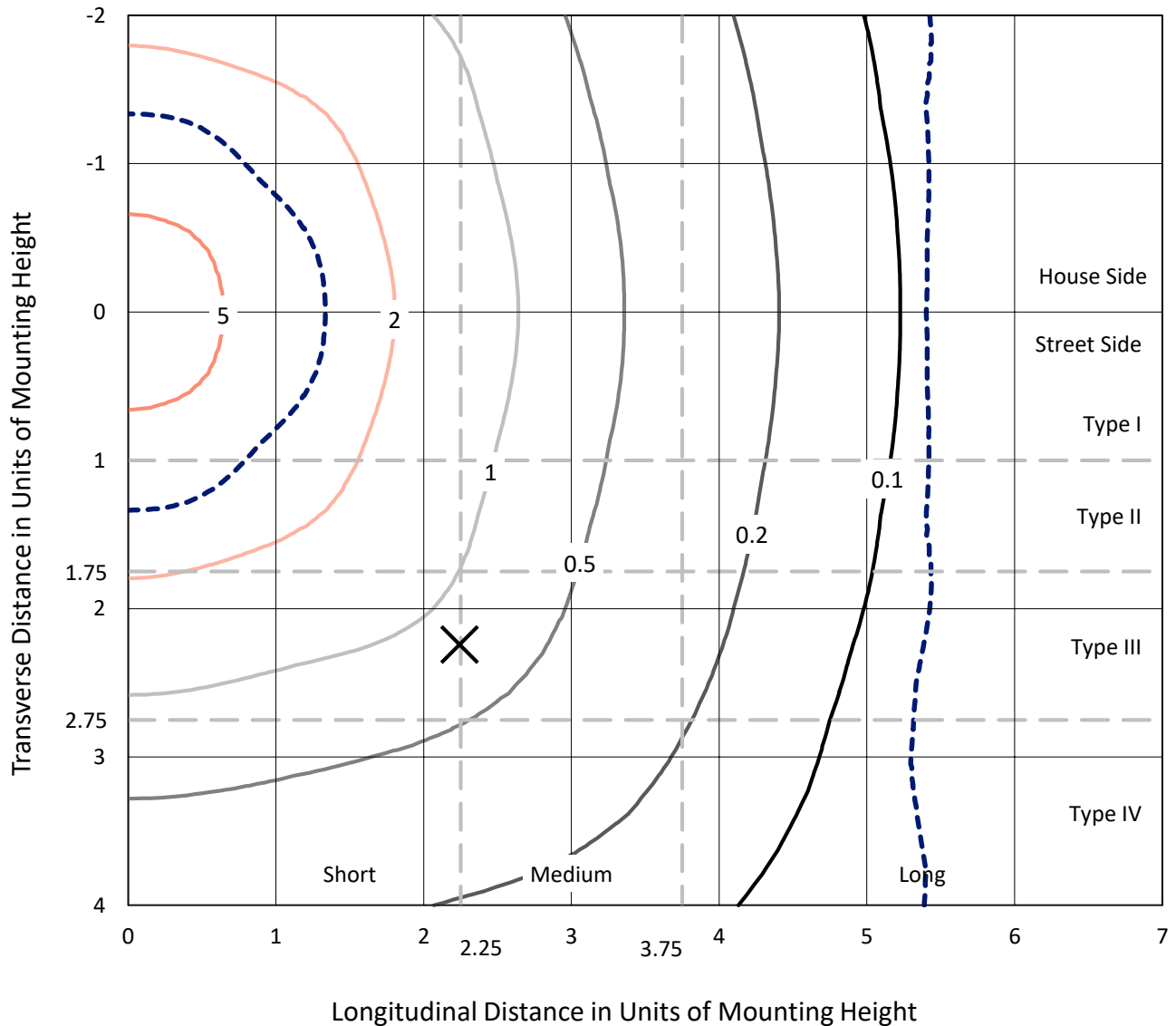
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

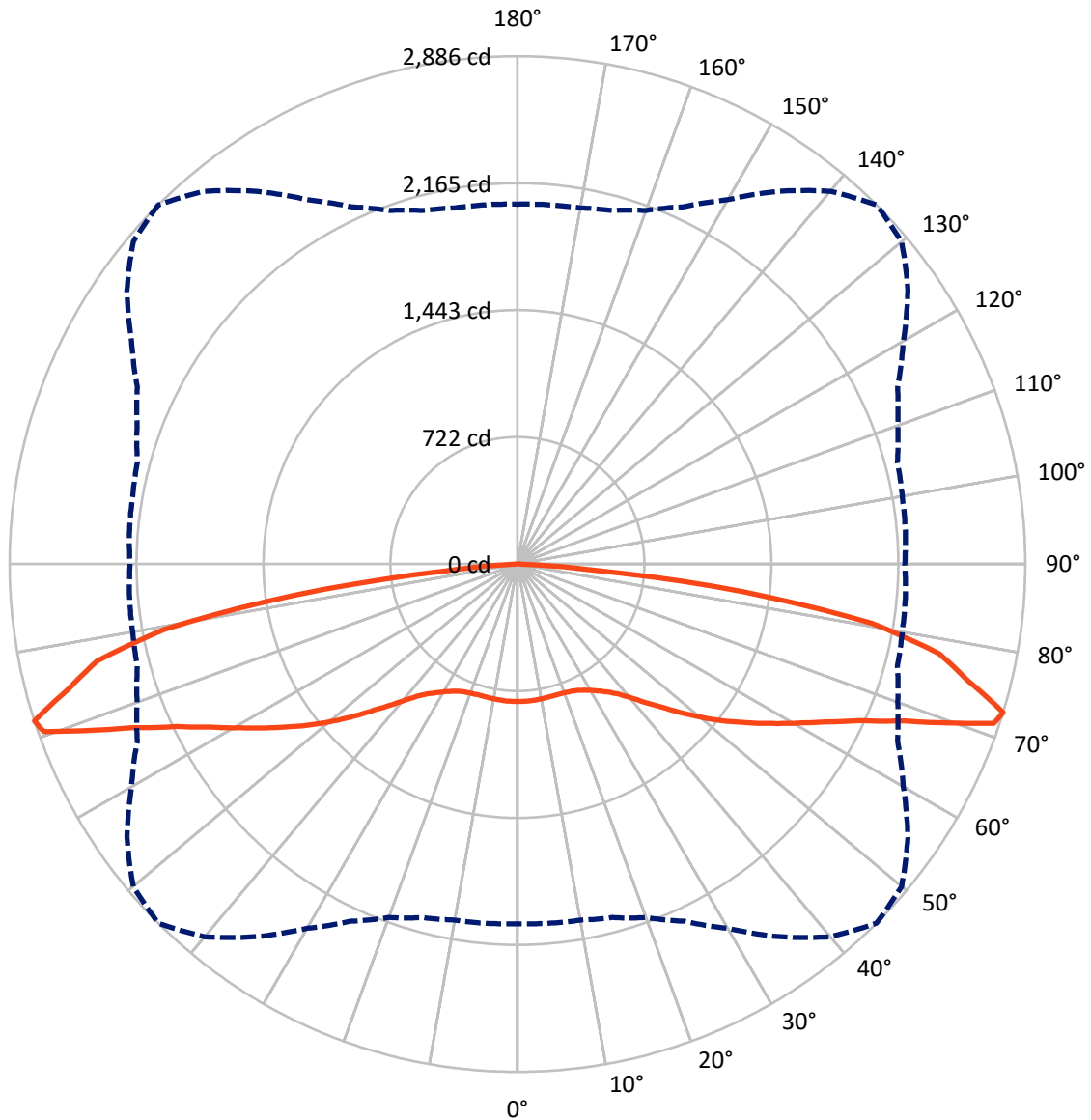
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4122.6	0.0	4122.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4122.6	0.0	4122.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8245.2	0.0	8245.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	0.9
10°-20°	220.2	2.7
20°-30°	368.8	4.5
30°-40°	562.2	6.8
40°-50°	897.8	10.9
50°-60°	1380.4	16.7
60°-70°	2009.8	24.4
70°-80°	2264.1	27.5
80°-90°	467.4	5.7
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°	8245.2	100.0
0°-180°	8245.2	100.0



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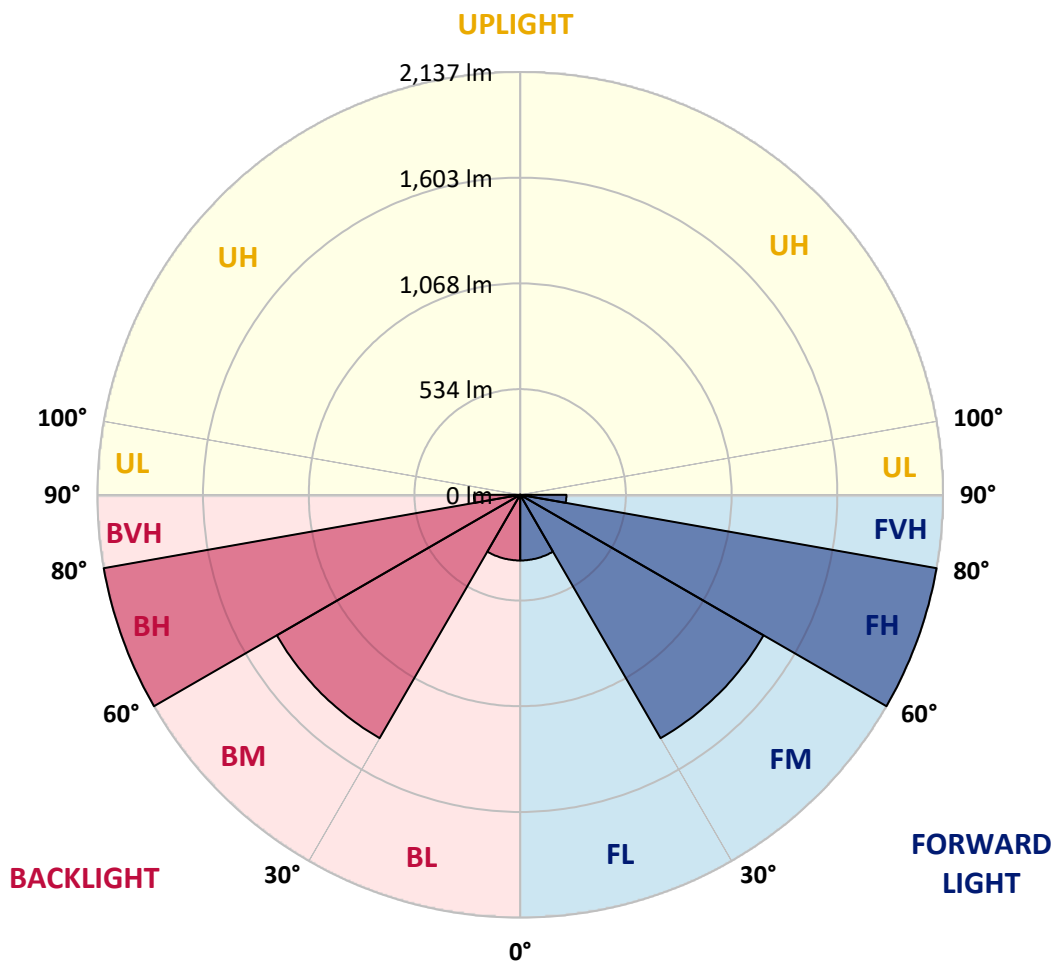
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.7	4.0			
FM (30°-60°)	1420.2	17.2			
FH (60°-80°)	2137.0	25.9			G2/5000
FVH (80°-90°)	233.7	2.8			G3/500
BL (0°-30°)	331.7	4.0	B1/500		
BM (30°-60°)	1420.2	17.2	B2/2500		
BH (60°-80°)	2137.0	25.9	B3/2500		G2/5000
BVH (80°-90°)	233.7	2.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2
2.5°	782.5	782.9	782.7	782.3	782.5	782.3	781.9	781.7	780.1	781.0	782.3
5°	782.5	782.1	781.9	781.7	781.7	782.3	781.7	781.0	780.8	781.2	780.6
7.5°	782.1	781.2	780.7	780.6	780.7	781.0	780.4	779.5	780.1	779.4	778.6
10°	780.8	780.1	780.3	779.5	779.7	779.5	778.6	778.0	778.4	777.8	776.7
12.5°	781.2	780.1	779.9	779.5	779.3	779.1	778.1	776.9	777.1	776.7	775.6
15°	781.2	780.6	780.3	779.5	779.3	778.8	777.6	777.1	777.1	776.5	775.2
17.5°	781.6	781.2	781.2	780.1	779.7	779.4	778.0	777.3	778.0	776.7	775.8
20°	783.0	782.5	782.7	782.1	781.2	781.2	780.1	779.7	779.9	779.7	777.3
22.5°	785.5	785.5	786.0	785.8	785.5	785.8	784.9	784.9	785.1	785.1	783.2
25°	792.9	792.7	793.1	793.1	793.3	794.8	794.1	794.0	795.1	795.0	793.1
27.5°	806.7	806.2	806.7	807.2	808.2	810.1	809.7	810.3	812.1	811.7	810.0
30°	822.7	822.2	823.4	824.7	825.5	828.5	827.2	830.5	832.0	833.3	832.0
32.5°	846.0	846.1	848.0	848.8	850.8	853.8	854.2	856.8	858.8	860.9	859.4
35°	877.1	876.7	878.2	879.7	882.1	884.9	886.0	889.5	892.5	894.0	891.2
37.5°	924.7	922.2	925.0	926.0	927.9	928.6	931.5	935.9	939.2	938.7	936.7
40°	989.0	988.7	987.5	986.2	989.2	990.3	990.3	996.2	1001.3	1000.5	1000.3
42.5°	1064.2	1062.3	1061.0	1061.0	1062.7	1063.1	1069.9	1074.1	1077.9	1078.7	1077.9
45°	1144.9	1143.1	1143.5	1142.7	1143.3	1146.1	1150.0	1158.0	1164.8	1165.1	1161.4
47.5°	1231.8	1225.9	1230.6	1223.9	1228.0	1230.1	1239.8	1251.5	1263.6	1265.8	1262.5
50°	1320.0	1319.4	1318.9	1317.7	1319.6	1324.4	1336.2	1354.6	1366.2	1374.1	1368.8
52.5°	1416.4	1413.1	1411.6	1409.4	1411.4	1420.7	1437.3	1453.3	1474.2	1483.2	1476.0
55°	1510.1	1509.0	1503.5	1503.3	1507.4	1521.8	1539.9	1559.6	1582.3	1592.2	1589.6
57.5°	1606.5	1600.2	1598.5	1595.9	1604.1	1617.7	1640.0	1675.5	1699.0	1710.2	1703.7
60°	1700.7	1696.0	1692.3	1691.4	1697.0	1716.0	1748.0	1790.5	1819.7	1834.4	1824.0
62.5°	1801.9	1798.8	1794.4	1789.5	1801.3	1825.8	1865.5	1912.7	1955.6	1973.8	1958.1
65°	1927.5	1921.3	1916.5	1910.2	1920.0	1950.7	2000.6	2066.9	2124.6	2145.8	2134.5
67.5°	2060.2	2054.3	2054.8	2050.9	2068.2	2110.7	2175.1	2265.2	2342.5	2378.6	2357.4
70°	2175.9	2179.2	2180.1	2195.8	2225.7	2290.4	2397.6	2538.7	2656.0	2711.1	2688.5
71°	2141.8	2148.9	2160.0	2176.4	2227.8	2304.6	2450.8	2621.7	2761.7	2855.0	2823.6
72.5°	2045.0	2049.4	2055.0	2080.0	2138.2	2239.7	2390.2	2585.6	2765.6	2886.3	2850.1
75°	1905.1	1909.2	1911.2	1928.6	1981.6	2070.2	2207.9	2381.2	2540.0	2642.8	2632.8
77.5°	1693.8	1694.4	1709.6	1736.6	1795.9	1897.3	2042.4	2222.2	2371.5	2451.5	2400.7
80°	1216.4	1208.1	1223.6	1258.4	1331.9	1448.2	1596.8	1802.1	1967.7	2042.4	1963.8
82.5°	462.8	487.8	527.4	584.8	609.7	738.9	877.6	998.1	1137.7	1293.7	1254.5
85°	49.7	56.0	70.2	87.1	110.0	152.1	210.2	286.9	353.7	415.7	369.0
87.5°	18.6	19.0	21.2	24.4	24.8	26.0	27.6	32.2	30.0	26.0	20.9
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°	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2
2.5°	781.2	781.4	781.2	781.4	781.4	780.6	780.7	780.3
5°	781.0	780.3	780.6	780.7	780.6	781.0	780.4	780.8
7.5°	779.9	778.6	779.1	779.1	778.6	779.3	778.8	778.6
10°	777.8	776.0	776.8	776.5	776.3	776.5	776.5	776.5
12.5°	775.8	774.7	774.9	774.7	774.5	775.2	775.0	775.2
15°	775.4	773.7	773.4	773.0	773.2	773.7	773.7	774.3
17.5°	775.0	772.8	772.6	772.1	772.4	773.2	773.4	773.0
20°	776.3	774.5	774.1	773.7	773.4	774.5	774.3	774.3
22.5°	782.3	780.1	779.9	778.2	777.6	778.2	777.8	777.8
25°	792.0	789.4	788.6	786.2	784.5	784.5	783.8	783.4
27.5°	809.5	805.6	804.7	802.8	800.4	800.8	799.5	799.4
30°	829.8	826.3	823.4	820.6	817.7	816.7	815.1	814.9
32.5°	856.4	852.5	848.7	845.4	841.5	840.0	837.4	836.1
35°	889.0	883.8	879.5	877.1	873.2	871.3	869.6	871.5
37.5°	934.6	928.4	926.1	923.4	920.7	917.8	918.4	917.8
40°	997.7	992.1	990.0	984.9	984.3	980.8	983.0	980.8
42.5°	1075.7	1065.3	1063.8	1059.9	1058.6	1056.7	1057.5	1056.0
45°	1160.6	1151.3	1149.6	1143.3	1143.4	1139.0	1140.7	1140.7
47.5°	1256.1	1246.3	1238.3	1233.9	1232.1	1229.3	1230.8	1230.6
50°	1354.6	1341.4	1332.6	1323.7	1319.8	1320.9	1317.9	1323.1
52.5°	1460.5	1440.8	1428.3	1419.8	1412.5	1414.0	1414.4	1416.0
55°	1570.0	1544.9	1526.8	1515.7	1509.0	1509.5	1511.5	1513.1
57.5°	1680.2	1648.8	1624.2	1607.8	1603.5	1605.4	1605.4	1605.2
60°	1794.4	1756.8	1725.1	1706.5	1702.6	1701.6	1710.0	1707.2
62.5°	1917.1	1872.0	1839.2	1815.5	1809.8	1813.7	1821.2	1819.5
65°	2079.8	2017.4	1975.1	1951.5	1942.0	1945.9	1956.1	1955.5
67.5°	2289.7	2202.3	2146.3	2116.2	2109.2	2114.0	2119.6	2125.0
70°	2603.4	2478.7	2398.7	2333.2	2305.1	2299.7	2305.4	2305.7
71°	2713.7	2570.4	2443.3	2363.4	2317.3	2297.9	2299.4	2289.7
72.5°	2709.2	2532.7	2383.8	2300.2	2236.3	2220.7	2213.1	2201.5
75°	2526.6	2367.6	2238.4	2147.3	2085.7	2067.4	2054.0	2053.2
77.5°	2291.4	2174.0	2031.6	1935.1	1860.1	1829.7	1816.0	1815.6
80°	1842.0	1666.3	1562.2	1504.1	1413.6	1387.5	1359.8	1349.4
82.5°	1113.9	870.4	707.7	628.9	585.3	482.0	432.6	409.1
85°	259.5	184.3	127.1	83.3	60.1	47.7	36.7	32.4
87.5°	17.5	13.9	12.3	10.0	7.5	7.3	4.6	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)