

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: P140654

Luminaire Tested: **EMM-F04-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140654
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-F04-LED-E1-5XQ-7030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8992.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

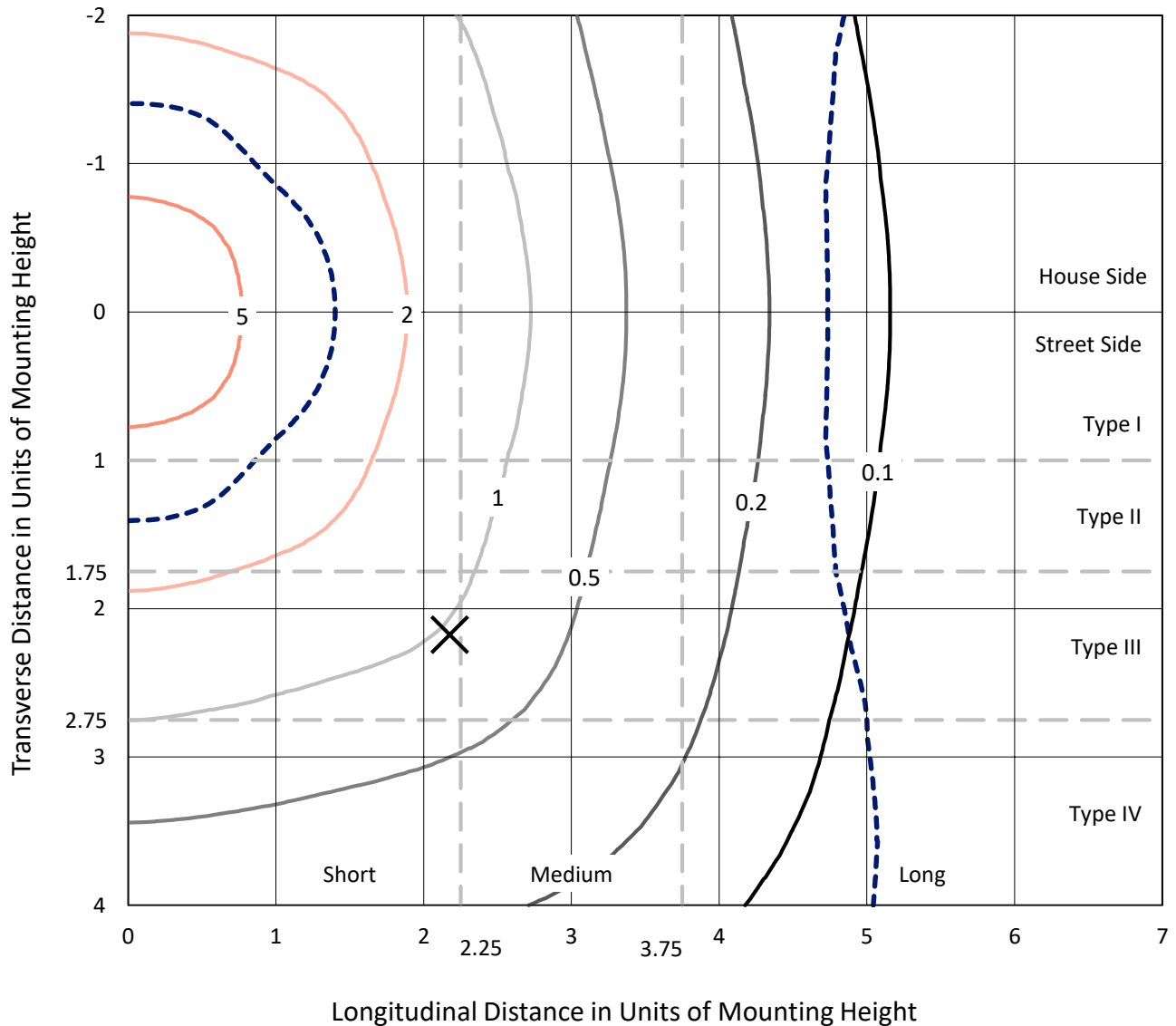
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

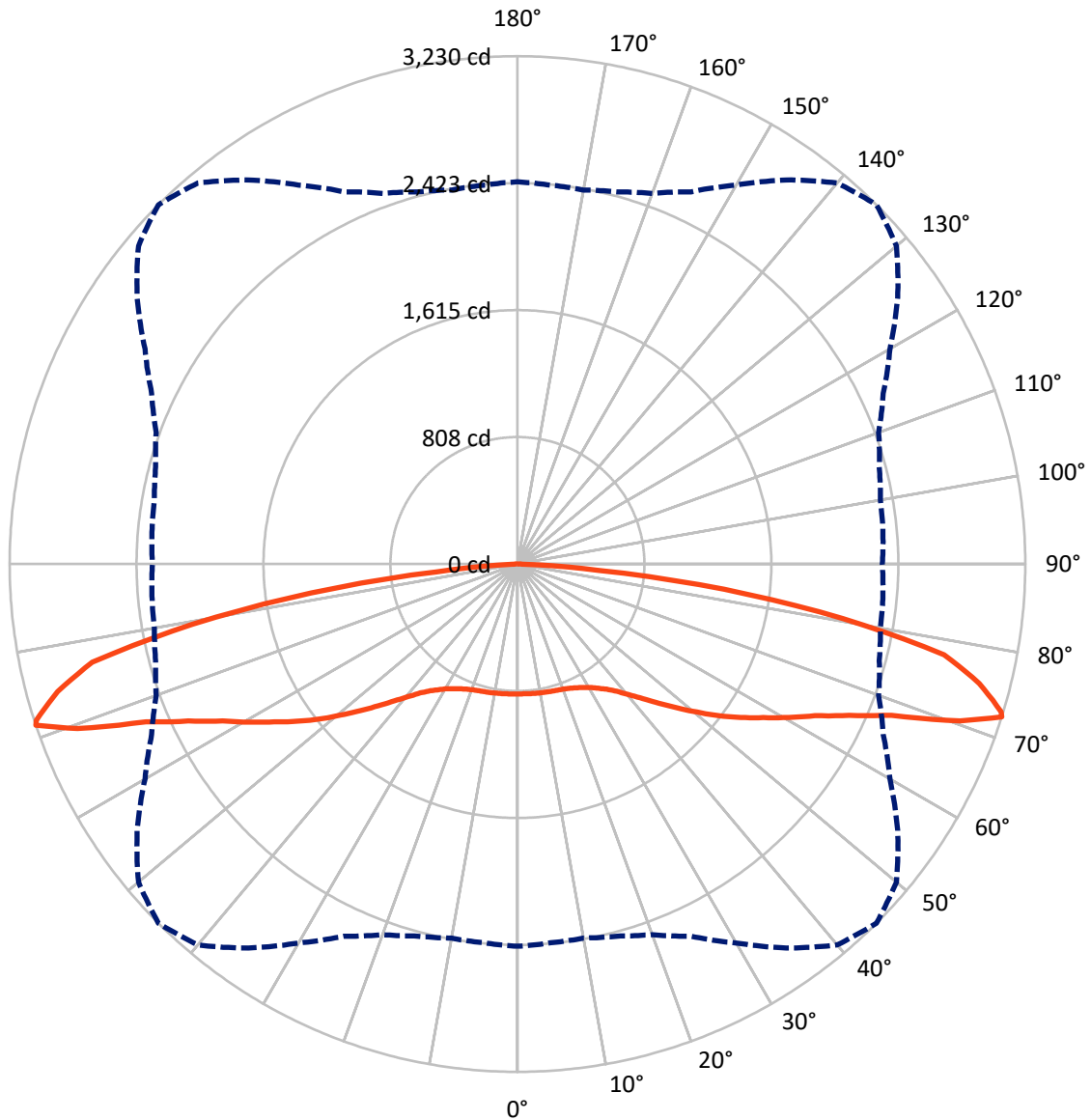
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4496.1	0.0	4496.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4496.1	0.0	4496.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8992.2	0.0	8992.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	0.9
10°-20°	238.5	2.7
20°-30°	403.6	4.5
30°-40°	614.1	6.8
40°-50°	972.3	10.8
50°-60°	1490.0	16.6
60°-70°	2187.4	24.3
70°-80°	2481.4	27.6
80°-90°	525.6	5.8
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°	8992.2	100.0
0°-180°	8992.2	100.0



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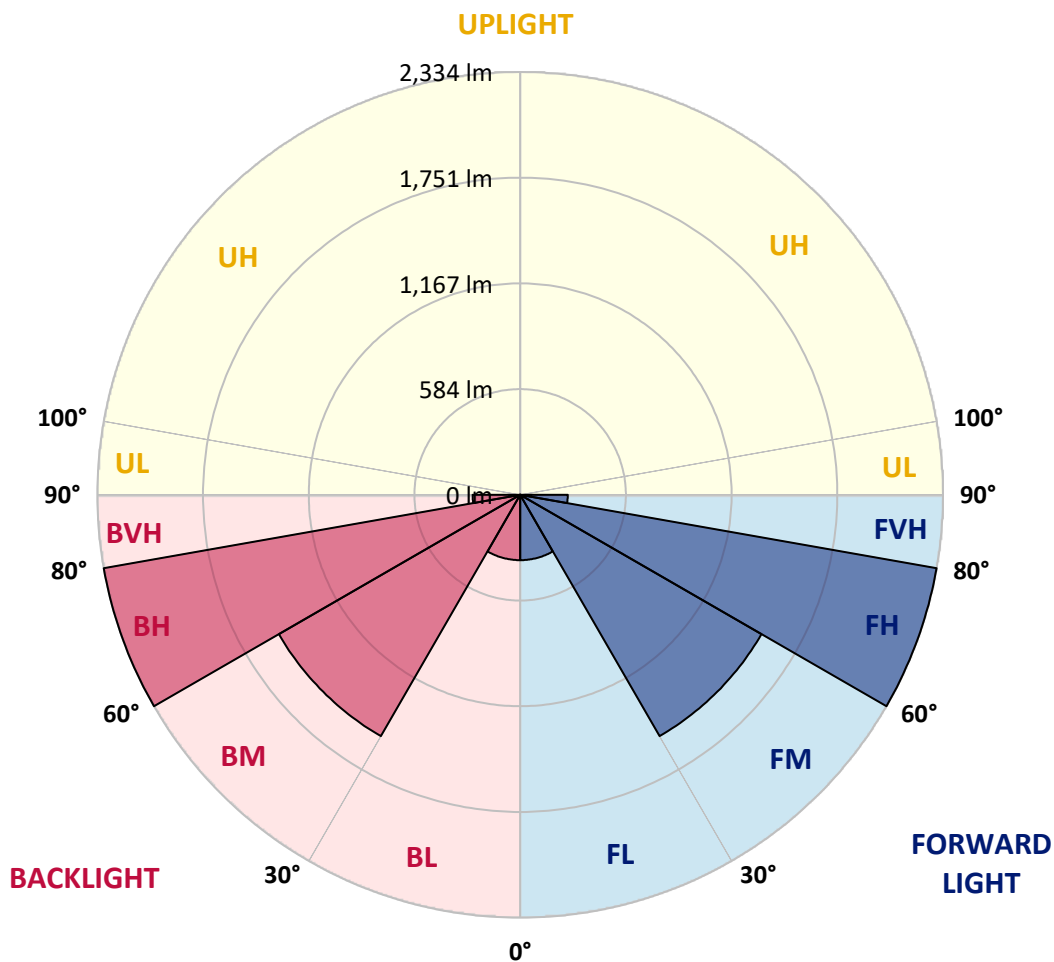
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.7	4.0			
FM	(30°-60°)	1538.2	17.1			
FH	(60°-80°)	2334.4	26.0			G2/5000
FVH	(80°-90°)	262.8	2.9			G3/500
BL	(0°-30°)	360.7	4.0	B1/500		
BM	(30°-60°)	1538.2	17.1	B2/2500		
BH	(60°-80°)	2334.4	26.0	B3/2500		G2/5000
BVH	(80°-90°)	262.8	2.9			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°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
2.5°	829.4	830.4	829.4	828.4	828.4	827.4	827.4	827.4	828.4	826.4	826.4
5°	831.4	832.4	831.4	829.4	829.4	829.4	828.4	828.4	829.4	828.4	828.4
7.5°	834.4	835.4	834.4	832.4	832.4	831.4	830.4	830.4	832.4	830.4	830.4
10°	837.4	839.4	837.4	835.4	835.4	834.4	833.4	833.4	834.4	832.4	832.4
12.5°	842.5	842.5	841.5	840.5	840.5	839.4	838.4	837.4	836.4	835.4	834.4
15°	846.5	847.5	845.5	844.5	843.5	842.5	841.5	841.5	839.4	838.4	838.4
17.5°	851.5	852.5	850.5	848.5	848.5	846.5	845.5	845.5	843.5	842.5	841.5
20°	856.5	857.5	855.5	854.5	853.5	852.5	850.5	851.5	850.5	848.5	848.5
22.5°	862.6	862.6	861.6	860.6	860.6	859.6	858.5	860.6	858.5	858.5	857.5
25°	868.6	869.6	868.6	868.6	869.6	869.6	870.6	872.6	872.6	871.6	870.6
27.5°	881.7	881.7	881.7	881.7	884.7	884.7	885.7	888.7	889.7	889.7	889.7
30°	898.8	899.8	898.8	898.8	901.8	902.8	905.8	908.8	910.8	910.8	911.8
32.5°	923.9	922.9	923.9	925.9	927.9	929.9	932.9	938.0	941.0	942.0	942.0
35°	956.1	957.1	956.1	957.1	961.1	964.1	967.1	973.2	975.2	977.2	978.2
37.5°	1003.3	1006.3	1004.3	1004.3	1009.3	1011.4	1015.4	1020.4	1024.4	1026.4	1025.4
40°	1071.7	1070.7	1068.7	1069.7	1070.7	1072.7	1076.7	1086.8	1091.8	1091.8	1091.8
42.5°	1150.1	1151.1	1148.1	1147.1	1148.1	1150.1	1156.1	1164.2	1172.2	1170.2	1171.2
45°	1239.6	1232.5	1234.5	1232.5	1233.5	1240.6	1250.6	1254.6	1262.7	1262.7	1264.7
47.5°	1327.0	1324.0	1323.0	1322.0	1325.0	1332.1	1344.1	1357.2	1364.2	1368.2	1371.3
50°	1425.6	1420.5	1419.5	1420.5	1421.5	1423.5	1446.7	1459.7	1476.8	1479.8	1478.8
52.5°	1521.1	1517.0	1515.0	1515.0	1519.0	1526.1	1550.2	1571.3	1590.4	1602.5	1597.5
55°	1624.6	1624.6	1618.6	1616.6	1622.6	1629.6	1662.8	1686.9	1714.1	1723.1	1709.1
57.5°	1731.2	1730.2	1721.1	1718.1	1723.1	1741.2	1769.4	1806.6	1835.7	1843.8	1835.7
60°	1835.7	1835.7	1830.7	1828.7	1833.7	1855.8	1890.0	1931.2	1966.4	1981.5	1968.4
62.5°	1955.4	1955.4	1942.3	1948.3	1955.4	1972.4	2015.7	2069.0	2116.2	2124.3	2112.2
65°	2091.1	2097.1	2087.1	2085.0	2094.1	2126.3	2175.5	2242.9	2298.2	2319.3	2301.2
67.5°	2298.2	2289.1	2277.1	2272.0	2286.1	2316.3	2376.6	2465.1	2546.5	2566.6	2545.5
70°	2513.3	2504.3	2500.2	2516.3	2546.5	2609.8	2702.3	2826.0	2939.6	2987.8	2943.6
72°	2430.9	2418.8	2415.8	2450.0	2508.3	2611.8	2782.7	2981.8	3162.8	3230.1	3146.7
72.5°	2388.7	2378.6	2377.6	2409.8	2473.1	2577.7	2745.5	2950.6	3144.7	3218.0	3128.6
75°	2217.7	2207.7	2217.7	2253.9	2317.3	2429.9	2600.8	2792.8	2967.7	3035.1	2947.6
77.5°	1981.5	1963.4	1972.4	2022.7	2093.1	2215.7	2396.7	2623.9	2792.8	2774.7	2645.0
80°	1581.4	1541.2	1584.4	1599.5	1679.9	1762.3	1937.3	2038.8	2097.1	2100.1	2007.6
82.5°	690.7	706.7	761.0	806.3	863.6	959.1	1029.5	1139.0	1266.7	1326.0	1254.6
85°	45.2	56.3	89.5	106.6	147.8	180.0	258.4	376.0	453.4	518.7	437.3
87.5°	8.0	11.1	20.1	24.1	26.1	29.2	29.2	40.2	42.2	34.2	38.2
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°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
2.5°	826.4	826.4	827.4	826.4	826.4	826.4	825.4	825.4
5°	827.4	827.4	828.4	828.4	827.4	827.4	827.4	827.4
7.5°	830.4	829.4	830.4	830.4	829.4	829.4	828.4	829.4
10°	831.4	831.4	832.4	832.4	831.4	831.4	831.4	831.4
12.5°	834.4	834.4	834.4	835.4	834.4	834.4	835.4	834.4
15°	837.4	836.4	836.4	836.4	836.4	837.4	837.4	838.4
17.5°	840.5	840.5	839.4	840.5	840.5	841.5	841.5	841.5
20°	846.5	845.5	843.5	845.5	845.5	845.5	845.5	846.5
22.5°	855.5	853.5	851.5	851.5	850.5	851.5	850.5	850.5
25°	868.6	865.6	862.6	861.6	860.6	859.6	858.5	859.6
27.5°	887.7	883.7	879.7	877.6	876.6	874.6	873.6	873.6
30°	908.8	905.8	899.8	897.8	894.7	891.7	891.7	890.7
32.5°	941.0	937.0	929.9	926.9	921.9	918.9	917.9	917.9
35°	974.2	969.1	966.1	962.1	956.1	953.0	952.0	952.0
37.5°	1024.4	1018.4	1014.4	1009.3	1008.3	1004.3	1004.3	1004.3
40°	1089.8	1084.7	1079.7	1075.7	1072.7	1069.7	1065.6	1065.6
42.5°	1170.2	1162.2	1159.1	1154.1	1150.1	1147.1	1145.1	1145.1
45°	1258.7	1251.6	1247.6	1240.6	1239.6	1237.6	1233.5	1233.5
47.5°	1358.2	1348.1	1340.1	1338.1	1333.1	1328.0	1326.0	1327.0
50°	1466.8	1449.7	1438.6	1438.6	1432.6	1425.6	1426.6	1425.6
52.5°	1578.4	1559.3	1545.2	1535.1	1528.1	1527.1	1528.1	1527.1
55°	1691.0	1670.8	1653.8	1642.7	1635.7	1628.6	1627.6	1627.6
57.5°	1807.6	1782.4	1755.3	1745.2	1738.2	1734.2	1734.2	1735.2
60°	1939.3	1898.1	1863.9	1850.8	1845.8	1847.8	1846.8	1847.8
62.5°	2073.0	2025.7	1985.5	1970.4	1963.4	1962.4	1970.4	1973.5
65°	2241.9	2183.6	2138.3	2110.2	2110.2	2107.2	2116.2	2112.2
67.5°	2462.0	2379.6	2324.3	2279.1	2280.1	2283.1	2296.2	2295.2
70°	2837.0	2691.3	2588.7	2511.3	2481.1	2461.0	2457.0	2457.0
72°	2952.6	2735.5	2566.6	2444.9	2382.6	2344.4	2333.4	2321.3
72.5°	2922.5	2699.3	2528.4	2401.7	2337.4	2299.2	2282.1	2267.0
75°	2732.5	2483.2	2297.2	2164.5	2093.1	2046.8	2037.8	2030.8
77.5°	2410.8	2189.6	1997.6	1859.9	1788.5	1729.2	1705.0	1703.0
80°	1858.8	1659.8	1512.0	1404.4	1340.1	1295.9	1297.9	1283.8
82.5°	1096.8	928.9	802.2	658.5	564.0	509.7	475.5	471.5
85°	322.7	219.2	139.7	100.5	72.4	54.3	40.2	36.2
87.5°	29.2	23.1	19.1	16.1	15.1	13.1	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)