

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: P140609

Luminaire Tested: **ECM-E04-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140609
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: ECM-E04-LED-E1-5XQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10892.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

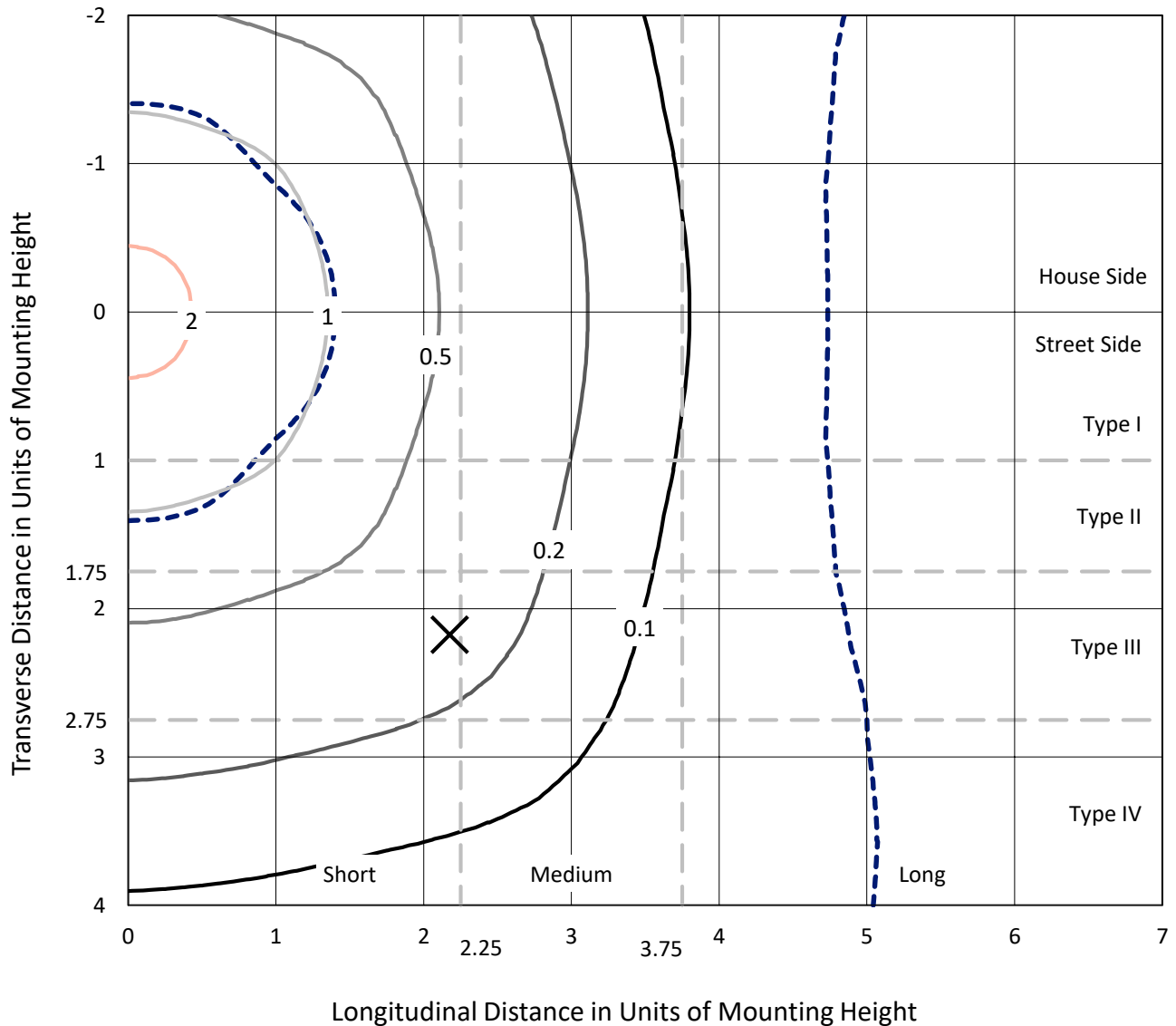
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

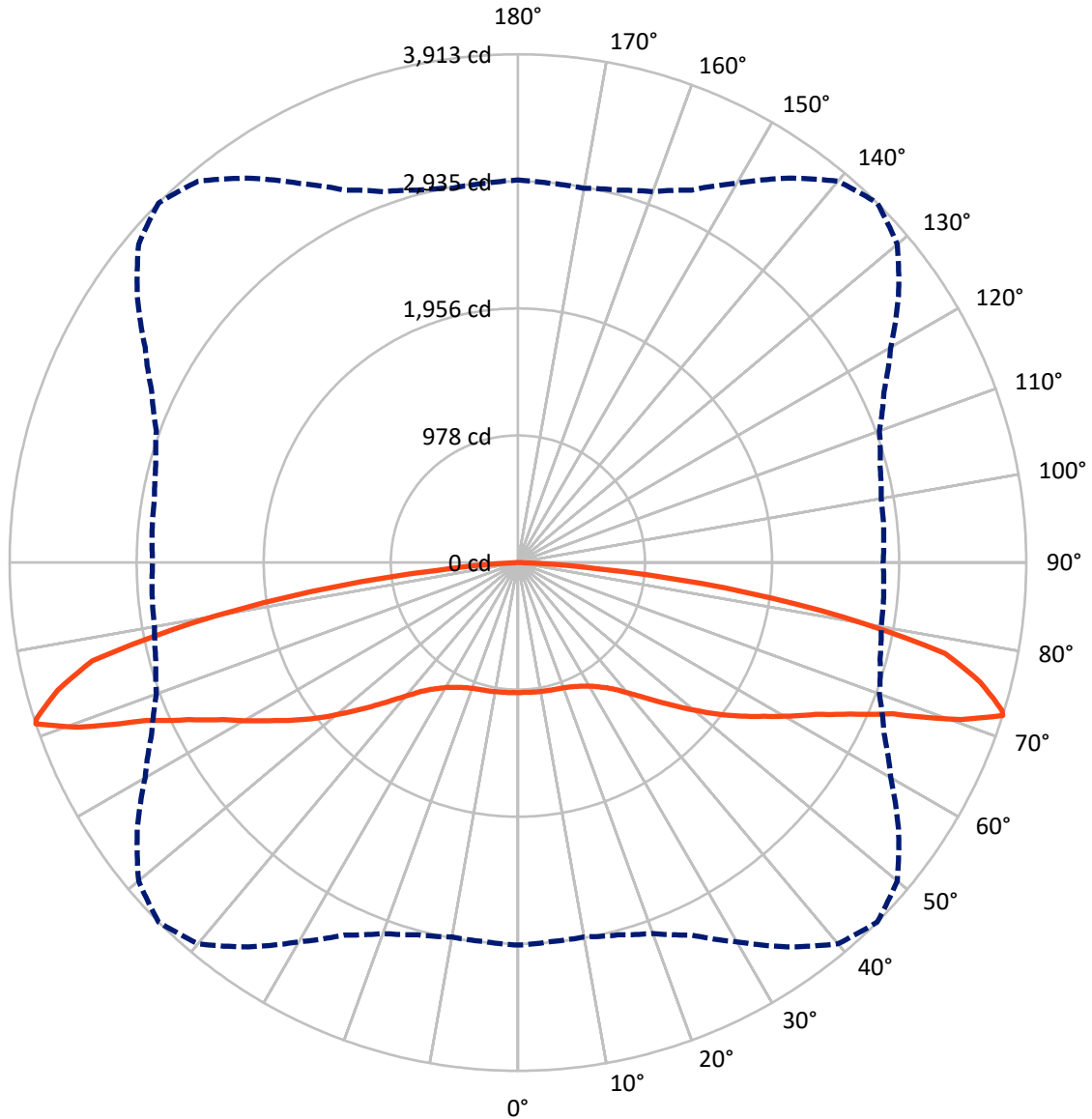
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 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	5446.4	0.0	5446.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5446.4	0.0	5446.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10892.7	0.0	10892.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	0.9
10°-20°	289.0	2.7
20°-30°	489.0	4.5
30°-40°	743.9	6.8
40°-50°	1177.8	10.8
50°-60°	1804.9	16.6
60°-70°	2649.7	24.3
70°-80°	3005.8	27.6
80°-90°	636.7	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°	10892.7	100.0
0°-180°	10892.7	100.0



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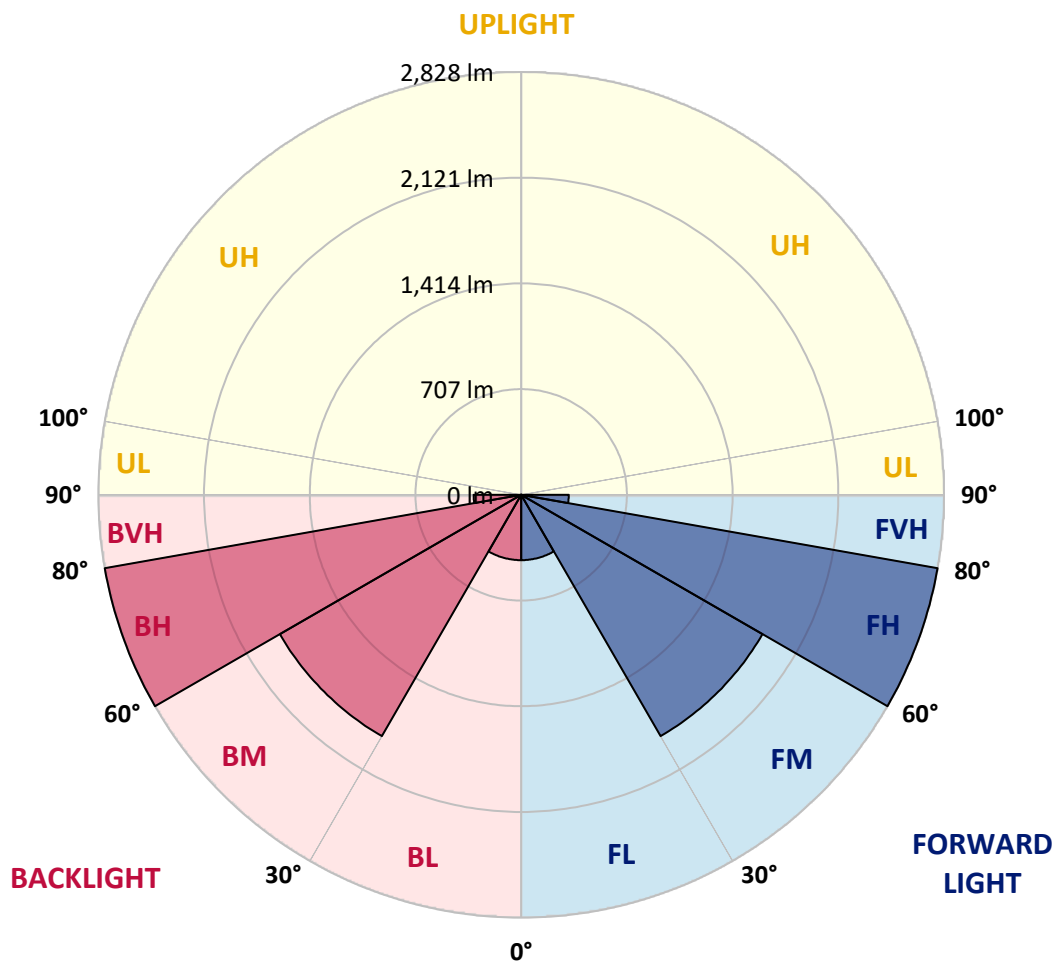
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.0	4.0			
FM	(30°-60°)	1863.3	17.1			
FH	(60°-80°)	2827.8	26.0			G2/5000
FVH	(80°-90°)	318.4	2.9			G3/500
BL	(0°-30°)	437.0	4.0	B1/500		
BM	(30°-60°)	1863.3	17.1	B2/2500		
BH	(60°-80°)	2827.8	26.0	B4/5000		G2/5000
BVH	(80°-90°)	318.4	2.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1004.7	1005.9	1004.7	1003.5	1003.5	1002.2	1002.2	1002.2	1003.5	1001.0	1001.0
5°	1007.1	1008.3	1007.1	1004.7	1004.7	1004.7	1003.5	1003.5	1004.7	1003.5	1003.5
7.5°	1010.8	1012.0	1010.8	1008.3	1008.3	1007.1	1005.9	1005.9	1008.3	1005.9	1005.9
10°	1014.4	1016.9	1014.4	1012.0	1012.0	1010.8	1009.6	1009.6	1010.8	1008.3	1008.3
12.5°	1020.5	1020.5	1019.3	1018.1	1018.1	1016.9	1015.6	1014.4	1013.2	1012.0	1010.8
15°	1025.4	1026.6	1024.2	1023.0	1021.7	1020.5	1019.3	1019.3	1016.9	1015.6	1015.6
17.5°	1031.5	1032.7	1030.3	1027.8	1027.8	1025.4	1024.2	1024.2	1021.7	1020.5	1019.3
20°	1037.6	1038.8	1036.3	1035.1	1033.9	1032.7	1030.3	1031.5	1030.3	1027.8	1027.8
22.5°	1044.9	1044.9	1043.7	1042.4	1042.4	1041.2	1040.0	1042.4	1040.0	1040.0	1038.8
25°	1052.2	1053.4	1052.2	1052.2	1053.4	1053.4	1054.6	1057.1	1057.1	1055.8	1054.6
27.5°	1068.0	1068.0	1068.0	1068.0	1071.7	1071.7	1072.9	1076.5	1077.8	1077.8	1077.8
30°	1088.7	1089.9	1088.7	1088.7	1092.4	1093.6	1097.2	1100.9	1103.3	1103.3	1104.5
32.5°	1119.2	1117.9	1119.2	1121.6	1124.0	1126.5	1130.1	1136.2	1139.9	1141.1	1141.1
35°	1158.1	1159.3	1158.1	1159.3	1164.2	1167.9	1171.5	1178.8	1181.3	1183.7	1184.9
37.5°	1215.4	1219.0	1216.6	1216.6	1222.7	1225.1	1230.0	1236.1	1240.9	1243.4	1242.2
40°	1298.2	1297.0	1294.5	1295.7	1297.0	1299.4	1304.3	1316.4	1322.5	1322.5	1322.5
42.5°	1393.2	1394.4	1390.7	1389.5	1390.7	1393.2	1400.5	1410.2	1420.0	1417.5	1418.7
45°	1501.5	1493.0	1495.5	1493.0	1494.2	1502.8	1514.9	1519.8	1529.6	1529.6	1532.0
47.5°	1607.5	1603.8	1602.6	1601.4	1605.1	1613.6	1628.2	1644.0	1652.6	1657.4	1661.1
50°	1726.8	1720.8	1719.5	1720.8	1722.0	1724.4	1752.4	1768.2	1788.9	1792.6	1791.4
52.5°	1842.5	1837.7	1835.2	1835.2	1840.1	1848.6	1877.8	1903.4	1926.6	1941.2	1935.1
55°	1968.0	1968.0	1960.7	1958.2	1965.5	1974.1	2014.2	2043.5	2076.3	2087.3	2070.3
57.5°	2097.1	2095.8	2084.9	2081.2	2087.3	2109.2	2143.3	2188.4	2223.7	2233.4	2223.7
60°	2223.7	2223.7	2217.6	2215.2	2221.3	2248.1	2289.5	2339.4	2382.0	2400.3	2384.5
62.5°	2368.6	2368.6	2352.8	2360.1	2368.6	2389.3	2441.7	2506.2	2563.5	2573.2	2558.6
65°	2533.0	2540.3	2528.2	2525.7	2536.7	2575.6	2635.3	2716.9	2783.9	2809.5	2787.5
67.5°	2783.9	2772.9	2758.3	2752.2	2769.3	2805.8	2878.9	2986.0	3084.7	3109.0	3083.5
70°	3044.5	3033.5	3028.7	3048.2	3084.7	3161.4	3273.4	3423.2	3560.8	3619.3	3565.7
72°	2944.6	2930.0	2926.4	2967.8	3038.4	3163.8	3370.9	3612.0	3831.2	3912.8	3811.7
72.5°	2893.5	2881.3	2880.1	2919.1	2995.8	3122.4	3325.8	3574.2	3809.3	3898.2	3789.8
75°	2686.5	2674.3	2686.5	2730.3	2807.0	2943.4	3150.4	3383.0	3594.9	3676.5	3570.6
77.5°	2400.3	2378.4	2389.3	2450.2	2535.5	2684.0	2903.2	3178.5	3383.0	3361.1	3204.0
80°	1915.6	1866.9	1919.3	1937.5	2034.9	2134.8	2346.7	2469.7	2540.3	2544.0	2431.9
82.5°	836.6	856.1	921.9	976.7	1046.1	1161.8	1247.0	1379.8	1534.4	1606.3	1519.8
85°	54.8	68.2	108.4	129.1	179.0	218.0	313.0	455.5	549.2	628.4	529.7
87.5°	9.7	13.4	24.4	29.2	31.7	35.3	35.3	48.7	51.1	41.4	46.3
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°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1001.0	1001.0	1002.2	1001.0	1001.0	1001.0	999.8	999.8
5°	1002.2	1002.2	1003.5	1003.5	1002.2	1002.2	1002.2	1002.2
7.5°	1005.9	1004.7	1005.9	1005.9	1004.7	1004.7	1003.5	1004.7
10°	1007.1	1007.1	1008.3	1008.3	1007.1	1007.1	1007.1	1007.1
12.5°	1010.8	1010.8	1010.8	1012.0	1010.8	1010.8	1012.0	1010.8
15°	1014.4	1013.2	1013.2	1013.2	1013.2	1014.4	1014.4	1015.6
17.5°	1018.1	1018.1	1016.9	1018.1	1018.1	1019.3	1019.3	1019.3
20°	1025.4	1024.2	1021.7	1024.2	1024.2	1024.2	1024.2	1025.4
22.5°	1036.3	1033.9	1031.5	1031.5	1030.3	1031.5	1030.3	1030.3
25°	1052.2	1048.5	1044.9	1043.7	1042.4	1041.2	1040.0	1041.2
27.5°	1075.3	1070.4	1065.6	1063.1	1061.9	1059.5	1058.3	1058.3
30°	1100.9	1097.2	1089.9	1087.5	1083.8	1080.2	1080.2	1079.0
32.5°	1139.9	1135.0	1126.5	1122.8	1116.7	1113.1	1111.9	1111.9
35°	1180.0	1174.0	1170.3	1165.4	1158.1	1154.5	1153.3	1153.3
37.5°	1240.9	1233.6	1228.8	1222.7	1221.5	1216.6	1216.6	1216.6
40°	1320.1	1314.0	1307.9	1303.0	1299.4	1295.7	1290.9	1290.9
42.5°	1417.5	1407.8	1404.1	1398.0	1393.2	1389.5	1387.1	1387.1
45°	1524.7	1516.2	1511.3	1502.8	1501.5	1499.1	1494.2	1494.2
47.5°	1645.2	1633.1	1623.3	1620.9	1614.8	1608.7	1606.3	1607.5
50°	1776.8	1756.1	1742.7	1742.7	1735.4	1726.8	1728.1	1726.8
52.5°	1911.9	1888.8	1871.8	1859.6	1851.1	1849.8	1851.1	1849.8
55°	2048.3	2024.0	2003.3	1989.9	1981.4	1972.8	1971.6	1971.6
57.5°	2189.6	2159.2	2126.3	2114.1	2105.6	2100.7	2100.7	2101.9
60°	2349.1	2299.2	2257.8	2242.0	2235.9	2238.3	2237.1	2238.3
62.5°	2511.1	2453.9	2405.2	2386.9	2378.4	2377.1	2386.9	2390.5
65°	2715.7	2645.1	2590.3	2556.2	2556.2	2552.5	2563.5	2558.6
67.5°	2982.4	2882.5	2815.6	2760.8	2762.0	2765.6	2781.5	2780.2
70°	3436.6	3260.1	3135.8	3042.1	3005.5	2981.2	2976.3	2976.3
72°	3576.7	3313.6	3109.0	2961.7	2886.2	2839.9	2826.5	2811.9
72.5°	3540.1	3269.8	3062.8	2909.3	2831.4	2785.1	2764.4	2746.1
75°	3310.0	3008.0	2782.7	2621.9	2535.5	2479.4	2468.5	2460.0
77.5°	2920.3	2652.4	2419.8	2252.9	2166.5	2094.6	2065.4	2063.0
80°	2251.7	2010.6	1831.6	1701.3	1623.3	1569.7	1572.2	1555.1
82.5°	1328.6	1125.2	971.8	797.7	683.2	617.4	576.0	571.1
85°	390.9	265.5	169.3	121.8	87.7	65.8	48.7	43.8
87.5°	35.3	28.0	23.1	19.5	18.3	15.8	9.7	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)