

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: P140608

Luminaire Tested: **ECM-E04-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140608  
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-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10065.5 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

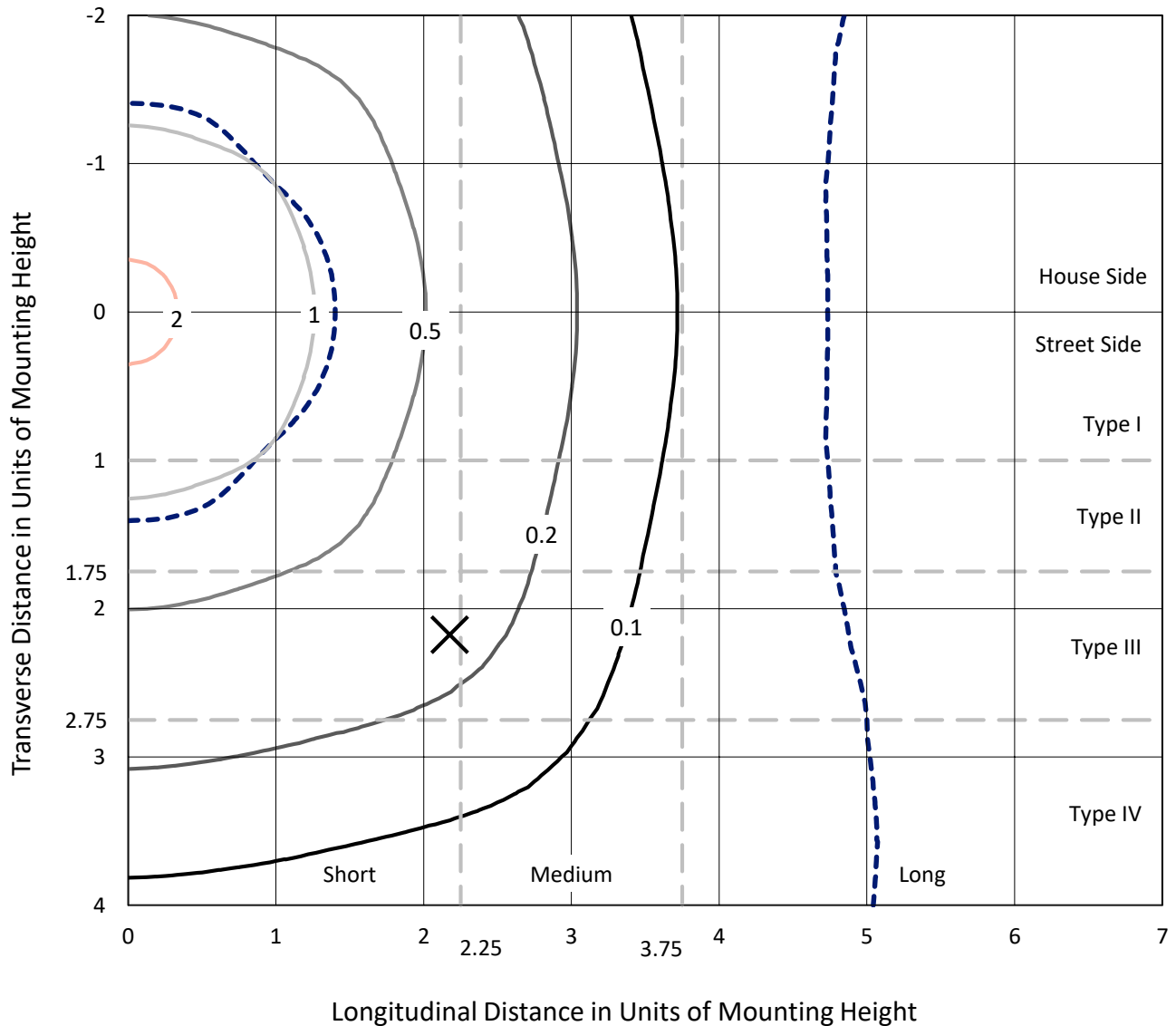
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

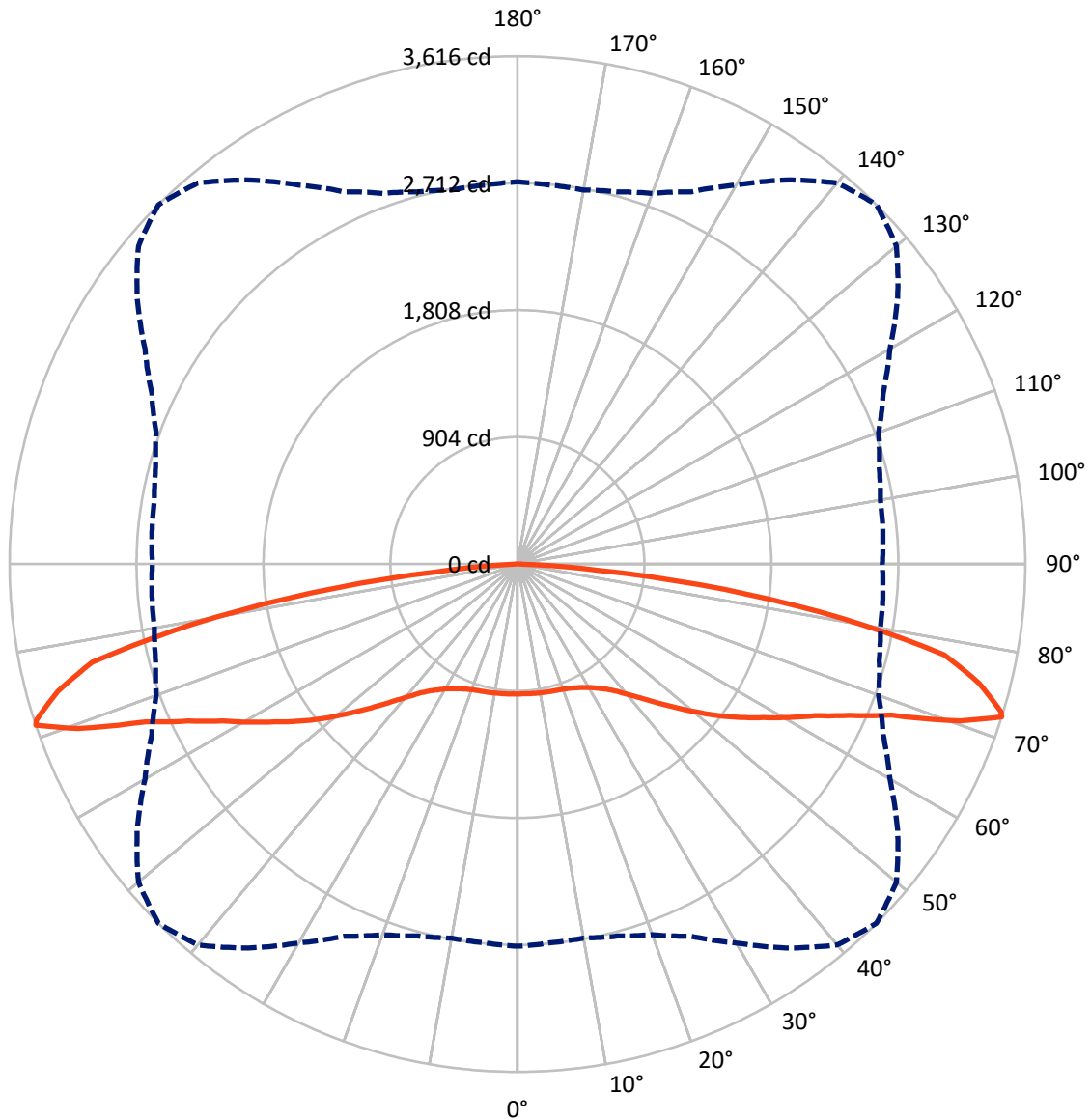
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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
<b>House Side</b>	Lumens	5032.8	0.0	5032.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5032.8	0.0	5032.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10065.5	0.0	10065.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	0.9
10°-20°	267.0	2.7
20°-30°	451.8	4.5
30°-40°	687.4	6.8
40°-50°	1088.3	10.8
50°-60°	1667.8	16.6
60°-70°	2448.5	24.3
70°-80°	2777.5	27.6
80°-90°	588.4	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°	10065.5	100.0
0°-180°	10065.5	100.0



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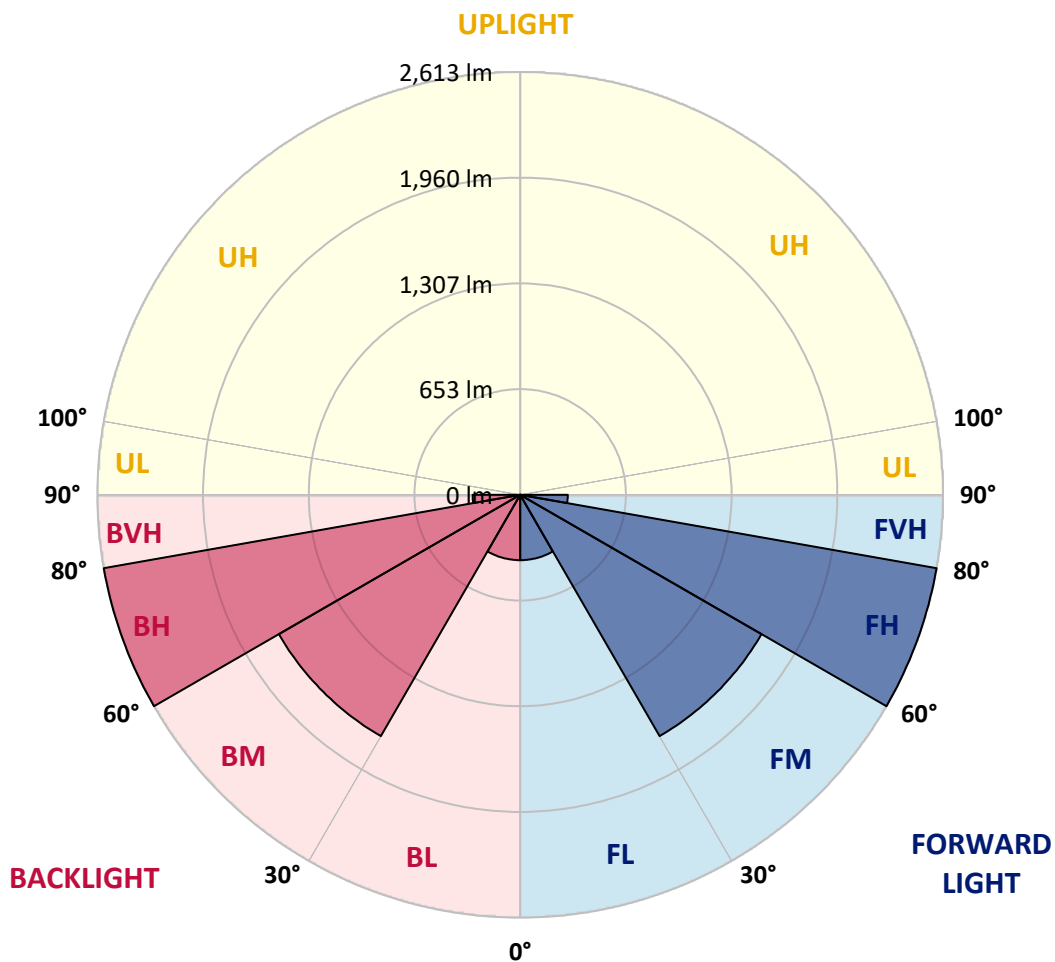
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.8	4.0			
FM (30°-60°)	1721.8	17.1			
FH (60°-80°)	2613.0	26.0			G2/5000
FVH (80°-90°)	294.2	2.9			G3/500
BL (0°-30°)	403.8	4.0	B1/500		
BM (30°-60°)	1721.8	17.1	B2/2500		
BH (60°-80°)	2613.0	26.0	B4/5000		G2/5000
BVH (80°-90°)	294.2	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°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	928.4	929.5	928.4	927.3	927.3	926.1	926.1	926.1	927.3	925.0	925.0
5°	930.6	931.8	930.6	928.4	928.4	928.4	927.3	927.3	928.4	927.3	927.3
7.5°	934.0	935.1	934.0	931.8	931.8	930.6	929.5	929.5	931.8	929.5	929.5
10°	937.4	939.6	937.4	935.1	935.1	934.0	932.9	932.9	934.0	931.8	931.8
12.5°	943.0	943.0	941.9	940.8	940.8	939.6	938.5	937.4	936.3	935.1	934.0
15°	947.5	948.6	946.4	945.3	944.1	943.0	941.9	941.9	939.6	938.5	938.5
17.5°	953.1	954.3	952.0	949.8	949.8	947.5	946.4	946.4	944.1	943.0	941.9
20°	958.8	959.9	957.6	956.5	955.4	954.3	952.0	953.1	952.0	949.8	949.8
22.5°	965.5	965.5	964.4	963.3	963.3	962.1	961.0	963.3	961.0	961.0	959.9
25°	972.3	973.4	972.3	972.3	973.4	973.4	974.5	976.8	976.8	975.7	974.5
27.5°	986.9	986.9	986.9	986.9	990.3	990.3	991.4	994.8	995.9	995.9	995.9
30°	1006.0	1007.2	1006.0	1006.0	1009.4	1010.5	1013.9	1017.3	1019.5	1019.5	1020.7
32.5°	1034.2	1033.0	1034.2	1036.4	1038.7	1040.9	1044.3	1049.9	1053.3	1054.4	1054.4
35°	1070.2	1071.3	1070.2	1071.3	1075.8	1079.2	1082.6	1089.3	1091.6	1093.8	1094.9
37.5°	1123.1	1126.4	1124.2	1124.2	1129.8	1132.1	1136.6	1142.2	1146.7	1149.0	1147.8
40°	1199.6	1198.5	1196.2	1197.3	1198.5	1200.7	1205.2	1216.5	1222.1	1222.1	1222.1
42.5°	1287.4	1288.5	1285.1	1284.0	1285.1	1287.4	1294.1	1303.1	1312.1	1309.9	1311.0
45°	1387.5	1379.6	1381.9	1379.6	1380.8	1388.6	1399.9	1404.4	1413.4	1413.4	1415.7
47.5°	1485.4	1482.0	1480.9	1479.8	1483.2	1491.1	1504.6	1519.2	1527.1	1531.6	1534.9
50°	1595.7	1590.1	1589.0	1590.1	1591.2	1593.5	1619.3	1634.0	1653.1	1656.5	1655.3
52.5°	1702.6	1698.1	1695.9	1695.9	1700.4	1708.2	1735.2	1758.9	1780.3	1793.8	1788.1
55°	1818.5	1818.5	1811.8	1809.5	1816.3	1824.1	1861.3	1888.3	1918.7	1928.8	1913.0
57.5°	1937.8	1936.7	1926.5	1923.2	1928.8	1949.1	1980.6	2022.2	2054.8	2063.8	2054.8
60°	2054.8	2054.8	2049.2	2047.0	2052.6	2077.3	2115.6	2161.7	2201.1	2218.0	2203.4
62.5°	2188.7	2188.7	2174.1	2180.9	2188.7	2207.9	2256.3	2315.9	2368.8	2377.8	2364.3
65°	2340.7	2347.4	2336.2	2333.9	2344.0	2380.1	2435.2	2510.6	2572.5	2596.1	2575.9
67.5°	2572.5	2562.4	2548.9	2543.2	2559.0	2592.7	2660.3	2759.3	2850.4	2872.9	2849.3
70°	2813.3	2803.2	2798.7	2816.7	2850.4	2921.3	3024.9	3163.3	3290.4	3344.5	3294.9
72°	2721.0	2707.5	2704.1	2742.4	2807.7	2923.6	3114.9	3337.7	3540.3	3615.7	3522.3
72.5°	2673.8	2662.5	2661.4	2697.4	2768.3	2885.3	3073.3	3302.8	3520.0	3602.2	3502.0
75°	2482.5	2471.2	2482.5	2523.0	2593.9	2719.9	2911.2	3126.1	3321.9	3397.3	3299.4
77.5°	2218.0	2197.8	2207.9	2264.1	2342.9	2480.2	2682.8	2937.1	3126.1	3105.9	2960.7
80°	1770.1	1725.1	1773.5	1790.4	1880.4	1972.7	2168.5	2282.2	2347.4	2350.8	2247.3
82.5°	773.1	791.1	851.9	902.5	966.7	1073.6	1152.3	1275.0	1417.9	1484.3	1404.4
85°	50.6	63.0	100.2	119.3	165.4	201.4	289.2	420.9	507.5	580.7	489.5
87.5°	9.0	12.4	22.5	27.0	29.3	32.6	32.6	45.0	47.3	38.3	42.8
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°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	925.0	925.0	926.1	925.0	925.0	925.0	923.9	923.9
5°	926.1	926.1	927.3	927.3	926.1	926.1	926.1	926.1
7.5°	929.5	928.4	929.5	929.5	928.4	928.4	927.3	928.4
10°	930.6	930.6	931.8	931.8	930.6	930.6	930.6	930.6
12.5°	934.0	934.0	934.0	935.1	934.0	934.0	935.1	934.0
15°	937.4	936.3	936.3	936.3	936.3	937.4	937.4	938.5
17.5°	940.8	940.8	939.6	940.8	940.8	941.9	941.9	941.9
20°	947.5	946.4	944.1	946.4	946.4	946.4	946.4	947.5
22.5°	957.6	955.4	953.1	953.1	952.0	953.1	952.0	952.0
25°	972.3	968.9	965.5	964.4	963.3	962.1	961.0	962.1
27.5°	993.7	989.2	984.7	982.4	981.3	979.0	977.9	977.9
30°	1017.3	1013.9	1007.2	1004.9	1001.5	998.2	998.2	997.0
32.5°	1053.3	1048.8	1040.9	1037.5	1031.9	1028.5	1027.4	1027.4
35°	1090.4	1084.8	1081.4	1076.9	1070.2	1066.8	1065.7	1065.7
37.5°	1146.7	1140.0	1135.4	1129.8	1128.7	1124.2	1124.2	1124.2
40°	1219.8	1214.2	1208.6	1204.1	1200.7	1197.3	1192.8	1192.8
42.5°	1309.9	1300.9	1297.5	1291.9	1287.4	1284.0	1281.7	1281.7
45°	1408.9	1401.0	1396.5	1388.6	1387.5	1385.3	1380.8	1380.8
47.5°	1520.3	1509.1	1500.1	1497.8	1492.2	1486.5	1484.3	1485.4
50°	1641.8	1622.7	1610.3	1610.3	1603.6	1595.7	1596.8	1595.7
52.5°	1766.8	1745.4	1729.6	1718.4	1710.5	1709.4	1710.5	1709.4
55°	1892.8	1870.3	1851.2	1838.8	1830.9	1823.0	1821.9	1821.9
57.5°	2023.3	1995.2	1964.8	1953.6	1945.7	1941.2	1941.2	1942.3
60°	2170.7	2124.6	2086.3	2071.7	2066.1	2068.3	2067.2	2068.3
62.5°	2320.4	2267.5	2222.5	2205.6	2197.8	2196.6	2205.6	2209.0
65°	2509.5	2444.2	2393.6	2362.0	2362.0	2358.7	2368.8	2364.3
67.5°	2755.9	2663.6	2601.7	2551.1	2552.2	2555.6	2570.2	2569.1
70°	3175.7	3012.5	2897.7	2811.1	2777.3	2754.8	2750.3	2750.3
72°	3305.1	3062.0	2872.9	2736.8	2667.0	2624.2	2611.9	2598.4
72.5°	3271.3	3021.5	2830.2	2688.4	2616.4	2573.6	2554.5	2537.6
75°	3058.6	2779.5	2571.4	2422.8	2342.9	2291.2	2281.0	2273.1
77.5°	2698.5	2450.9	2236.0	2081.8	2001.9	1935.6	1908.5	1906.3
80°	2080.7	1857.9	1692.5	1572.1	1500.1	1450.5	1452.8	1437.0
82.5°	1227.7	1039.8	898.0	737.1	631.3	570.5	532.3	527.8
85°	361.2	245.3	156.4	112.5	81.0	60.8	45.0	40.5
87.5°	32.6	25.9	21.4	18.0	16.9	14.6	9.0	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)