

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: STREETWORKS

Report Number: P148633

Luminaire Tested: **AVS-F04-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148633
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-F04-LED-E-U-5XQ-8030
Description: VISION SITE SMALL 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: 8863.5 lumens
Efficiency: N/A
Efficacy: 86.7 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

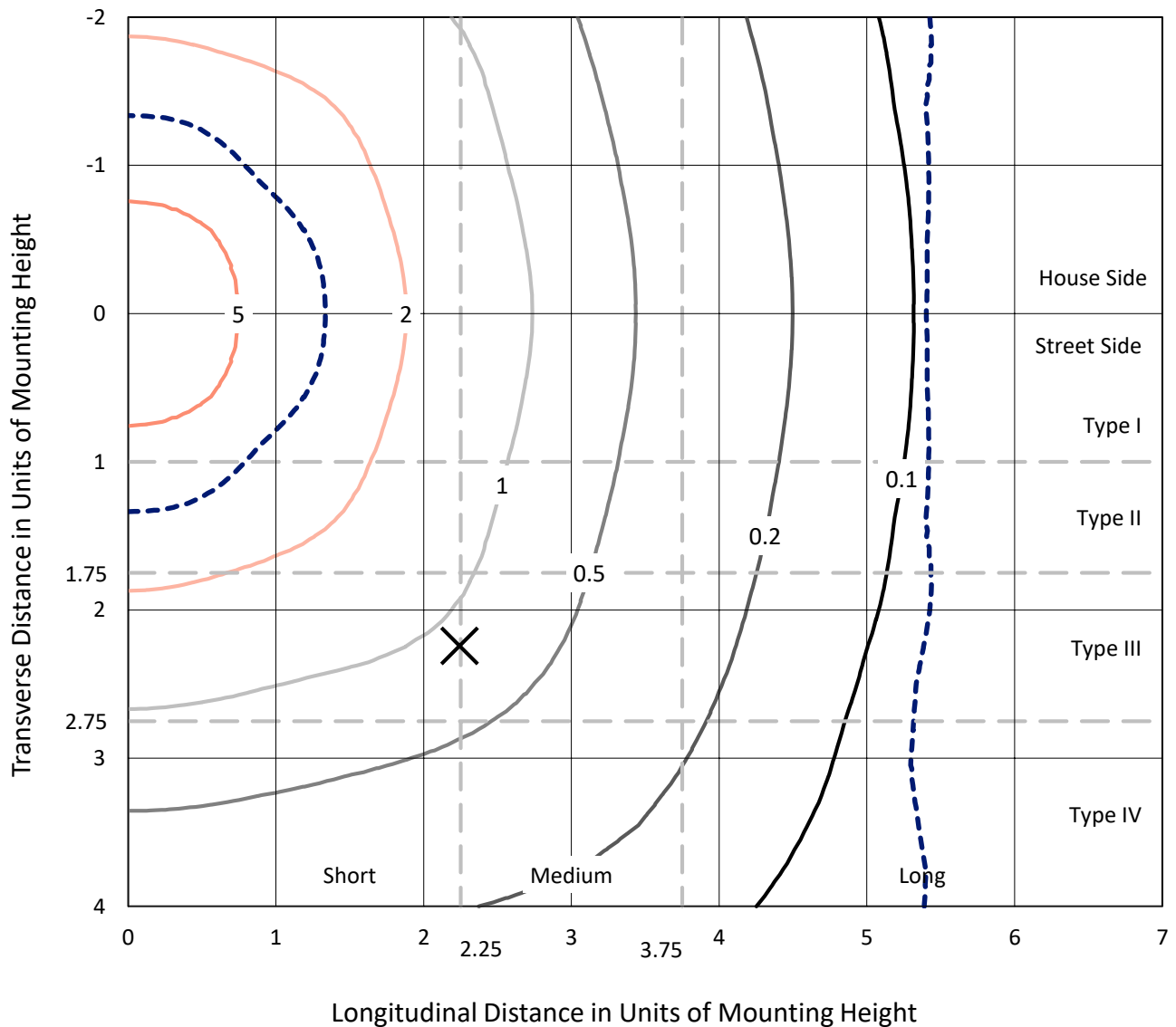
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

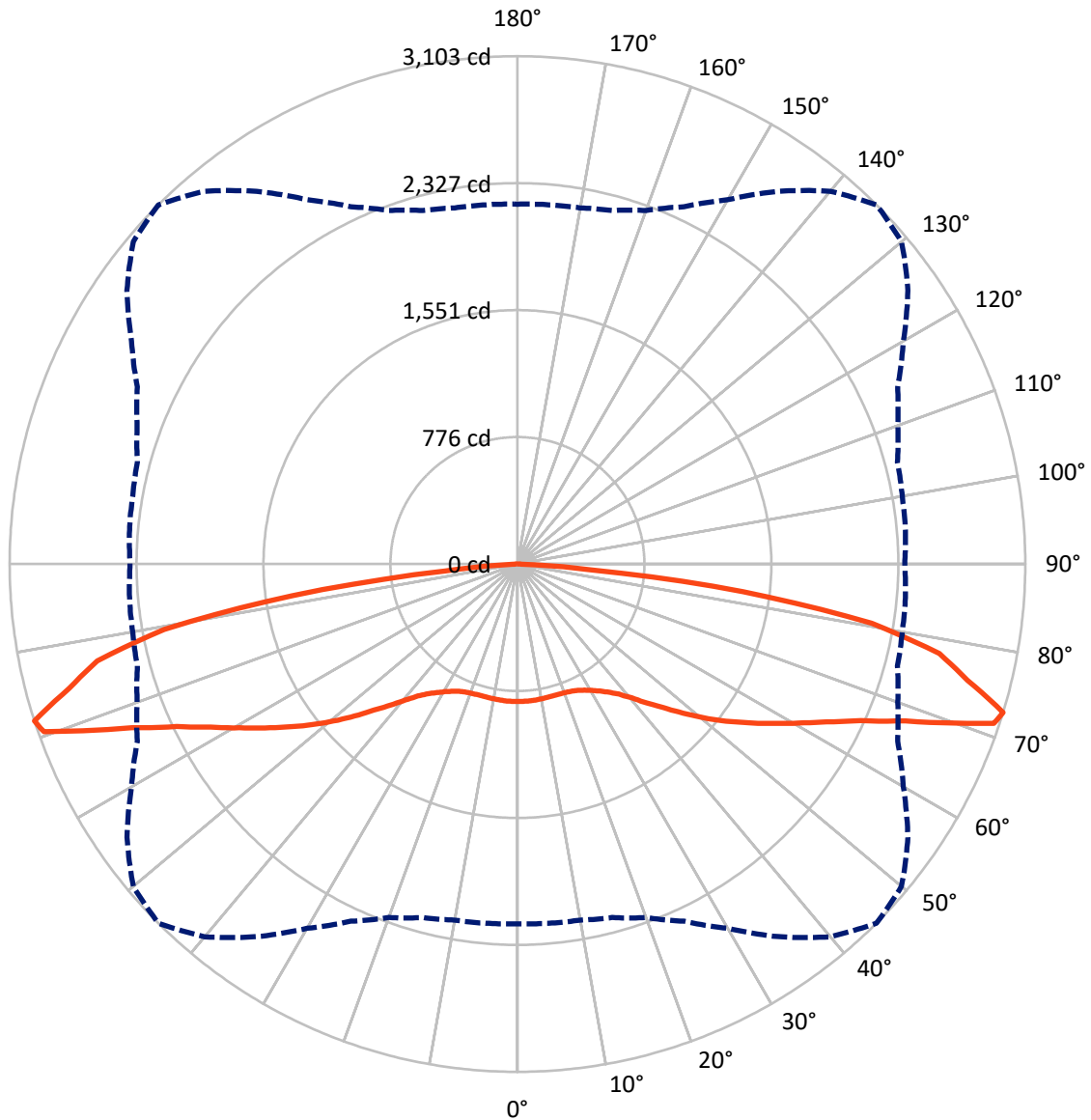
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	4431.8	0.0	4431.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4431.8	0.0	4431.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	8863.5	0.0	8863.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	0.9
10°-20°	236.8	2.7
20°-30°	396.5	4.5
30°-40°	604.4	6.8
40°-50°	965.1	10.9
50°-60°	1483.9	16.7
60°-70°	2160.6	24.4
70°-80°	2433.9	27.5
80°-90°	502.4	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°	8863.5	100.0
0°-180°	8863.5	100.0



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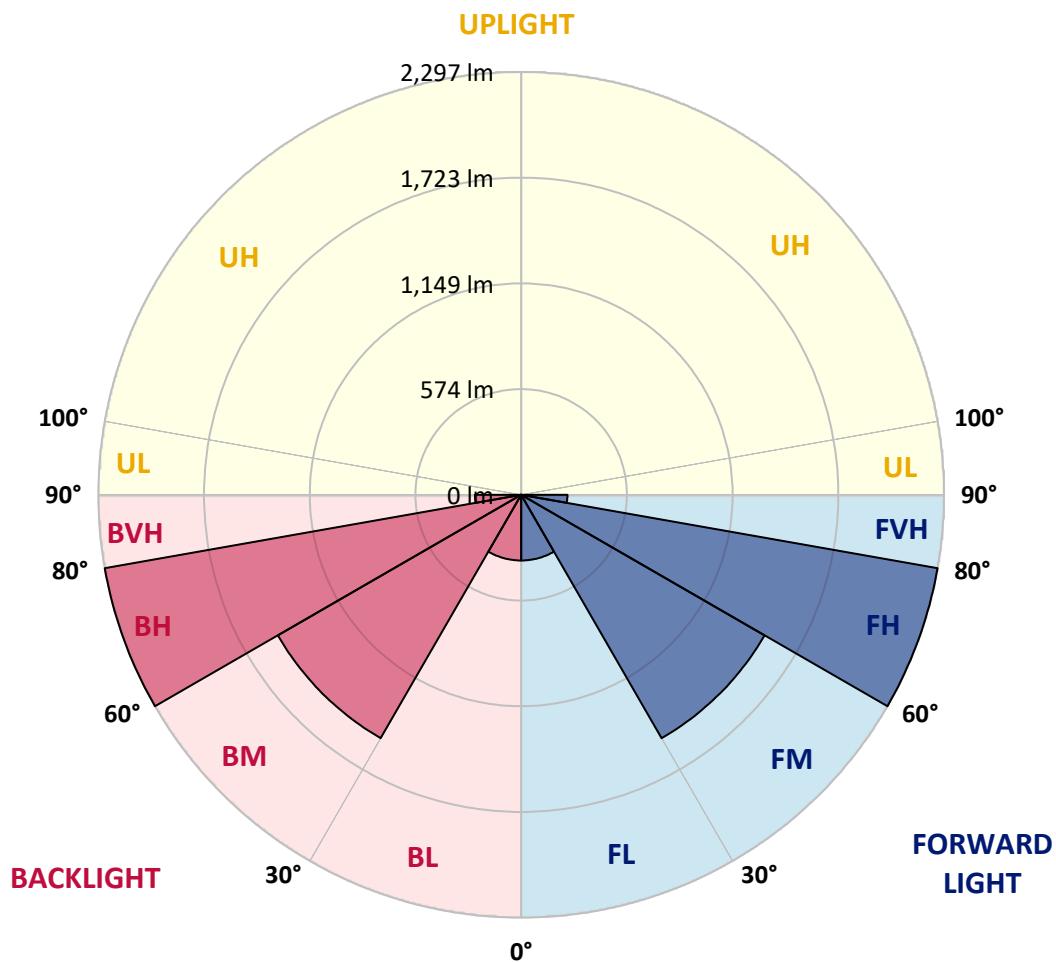
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.6	4.0			
FM	(30°-60°)	1526.7	17.2			
FH	(60°-80°)	2297.2	25.9			G2/5000
FVH	(80°-90°)	251.2	2.8			G3/500
BL	(0°-30°)	356.6	4.0	B1/500		
BM	(30°-60°)	1526.7	17.2	B2/2500		
BH	(60°-80°)	2297.2	25.9	B3/2500		G2/5000
BVH	(80°-90°)	251.2	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°	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8
2.5°	841.2	841.7	841.5	840.9	841.2	840.9	840.5	840.2	838.7	839.6	840.9
5°	841.2	840.7	840.5	840.2	840.2	840.9	840.2	839.6	839.4	839.8	839.1
7.5°	840.7	839.8	839.4	839.1	839.3	839.6	838.9	837.9	838.7	837.9	837.0
10°	839.4	838.7	838.9	837.9	838.1	837.9	837.0	836.3	836.8	836.1	834.9
12.5°	839.8	838.7	838.4	837.9	837.7	837.5	836.3	835.1	835.4	834.9	833.8
15°	839.8	839.1	838.9	837.9	837.7	837.3	835.9	835.3	835.4	834.7	833.3
17.5°	840.2	839.8	839.8	838.7	838.1	837.9	836.3	835.6	836.4	834.9	834.0
20°	841.7	841.2	841.5	840.7	839.8	839.8	838.7	838.1	838.4	838.1	835.6
22.5°	844.5	844.5	844.9	844.7	844.5	844.7	843.7	843.7	843.9	843.9	841.9
25°	852.3	852.1	852.5	852.5	852.8	854.4	853.7	853.5	854.7	854.7	852.5
27.5°	867.2	866.7	867.2	867.7	868.8	870.9	870.5	871.1	873.0	872.5	870.7
30°	884.4	883.9	885.1	886.5	887.5	890.7	889.3	892.7	894.4	895.8	894.4
32.5°	909.4	909.4	911.5	912.4	914.6	917.8	918.3	921.1	923.2	925.5	923.9
35°	942.9	942.5	944.0	945.7	948.3	951.3	952.4	956.2	959.4	961.0	958.0
37.5°	994.0	991.5	994.5	995.4	997.5	998.1	1001.5	1006.1	1009.5	1009.1	1007.0
40°	1063.2	1062.8	1061.6	1060.2	1063.4	1064.7	1064.7	1070.9	1076.5	1075.5	1075.3
42.5°	1144.0	1142.0	1140.5	1140.5	1142.4	1142.9	1150.1	1154.7	1158.7	1159.6	1158.7
45°	1230.9	1228.8	1229.3	1228.4	1229.0	1232.0	1236.2	1244.9	1252.2	1252.4	1248.5
47.5°	1324.2	1317.7	1322.9	1315.6	1320.1	1322.5	1332.8	1345.4	1358.3	1360.7	1357.2
50°	1419.1	1418.3	1417.8	1416.5	1418.5	1423.6	1436.5	1456.2	1468.7	1477.1	1471.5
52.5°	1522.6	1519.1	1517.5	1515.1	1517.3	1527.3	1545.1	1562.3	1584.9	1594.4	1586.7
55°	1623.4	1622.2	1616.2	1616.0	1620.3	1636.0	1655.4	1676.6	1700.9	1711.7	1708.8
57.5°	1727.0	1720.2	1718.3	1715.5	1724.5	1739.1	1763.0	1801.0	1826.3	1838.4	1831.5
60°	1828.2	1823.1	1819.2	1818.2	1824.2	1844.8	1879.1	1924.9	1956.3	1972.0	1960.8
62.5°	1936.9	1933.7	1929.0	1923.7	1936.5	1962.7	2005.4	2056.1	2102.3	2121.9	2104.9
65°	2072.1	2065.4	2060.2	2053.5	2063.9	2096.9	2150.7	2221.9	2283.9	2306.6	2294.5
67.5°	2214.7	2208.4	2208.9	2204.7	2223.3	2269.0	2338.2	2435.0	2518.2	2557.0	2534.2
70°	2339.2	2342.7	2343.6	2360.5	2392.6	2462.3	2577.4	2729.1	2855.2	2914.4	2890.1
71°	2302.5	2310.2	2322.0	2339.7	2394.9	2477.3	2634.6	2818.2	2968.8	3069.1	3035.4
72.5°	2198.4	2203.1	2209.1	2236.1	2298.5	2407.7	2569.5	2779.5	2973.0	3102.8	3063.7
75°	2047.9	2052.3	2054.4	2073.3	2130.2	2225.4	2373.6	2559.8	2730.6	2841.0	2830.2
77.5°	1820.8	1821.6	1837.7	1866.7	1930.7	2039.6	2195.6	2388.8	2549.3	2635.2	2580.7
80°	1307.6	1298.8	1315.4	1352.8	1431.8	1556.8	1716.5	1937.2	2115.2	2195.6	2111.1
82.5°	497.4	524.5	566.9	628.7	655.3	794.3	943.4	1073.0	1223.0	1390.7	1348.6
85°	53.5	60.1	75.4	93.6	118.2	163.5	225.9	308.4	380.2	446.8	396.7
87.5°	20.0	20.4	22.8	26.2	26.7	27.9	29.7	34.6	32.3	27.9	22.5
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°	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8
2.5°	839.8	840.0	839.8	840.0	840.0	839.1	839.3	838.9
5°	839.6	838.9	839.1	839.4	839.1	839.6	838.9	839.3
7.5°	838.3	837.0	837.5	837.5	837.0	837.7	837.2	837.0
10°	836.1	834.2	835.1	834.6	834.4	834.6	834.6	834.6
12.5°	834.0	832.8	833.1	832.8	832.6	833.3	833.1	833.3
15°	833.6	831.7	831.4	831.0	831.2	831.7	831.7	832.3
17.5°	833.1	830.8	830.5	830.1	830.3	831.2	831.4	831.0
20°	834.4	832.5	832.1	831.7	831.5	832.6	832.3	832.3
22.5°	840.9	838.7	838.3	836.5	835.9	836.5	836.1	836.1
25°	851.4	848.6	847.7	845.2	843.3	843.3	842.6	842.1
27.5°	870.3	866.0	865.1	863.0	860.5	860.9	859.6	859.3
30°	892.0	888.3	885.1	882.1	879.1	877.9	876.3	876.1
32.5°	920.6	916.5	912.5	908.8	904.6	903.0	900.2	898.9
35°	955.6	950.1	945.5	942.9	938.8	936.7	934.8	936.8
37.5°	1004.8	997.9	995.6	992.6	989.8	986.6	987.3	986.5
40°	1072.5	1066.5	1064.1	1058.9	1058.1	1054.4	1056.7	1054.4
42.5°	1156.4	1145.2	1143.6	1139.5	1138.0	1135.9	1136.9	1135.2
45°	1247.6	1237.7	1235.8	1229.0	1229.3	1224.4	1226.2	1226.3
47.5°	1350.3	1339.8	1331.2	1326.3	1324.5	1321.5	1323.1	1322.9
50°	1456.2	1442.1	1432.5	1423.0	1418.8	1419.9	1416.7	1422.2
52.5°	1569.9	1548.8	1535.3	1526.3	1518.3	1520.1	1520.5	1522.1
55°	1687.7	1660.8	1641.2	1629.4	1622.2	1622.7	1624.8	1626.6
57.5°	1806.2	1772.4	1746.0	1728.4	1723.7	1725.8	1725.8	1725.6
60°	1929.0	1888.6	1854.5	1834.5	1830.3	1829.2	1838.2	1835.2
62.5°	2060.9	2012.4	1977.1	1951.5	1945.5	1949.6	1957.8	1956.0
65°	2235.9	2168.7	2123.2	2097.8	2087.7	2091.8	2102.7	2102.3
67.5°	2461.3	2367.5	2307.4	2274.8	2267.4	2272.5	2278.5	2284.4
70°	2798.5	2664.6	2578.7	2508.3	2478.0	2472.2	2478.2	2478.5
71°	2917.2	2763.2	2626.5	2540.5	2491.1	2470.2	2471.8	2461.3
72.5°	2912.3	2722.6	2562.6	2472.7	2403.9	2387.3	2379.2	2366.6
75°	2716.1	2545.2	2406.3	2308.3	2242.1	2222.4	2208.0	2207.3
77.5°	2463.2	2337.1	2184.0	2080.2	1999.6	1966.8	1952.3	1951.7
80°	1980.1	1791.3	1679.4	1616.9	1519.6	1491.5	1461.8	1450.6
82.5°	1197.5	935.8	760.8	676.1	629.1	518.1	465.0	439.8
85°	279.0	198.1	136.6	89.6	64.6	51.3	39.5	34.8
87.5°	18.9	14.9	13.3	10.7	8.1	7.9	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)