

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: P147593

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147593
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
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-5MQ-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8984.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

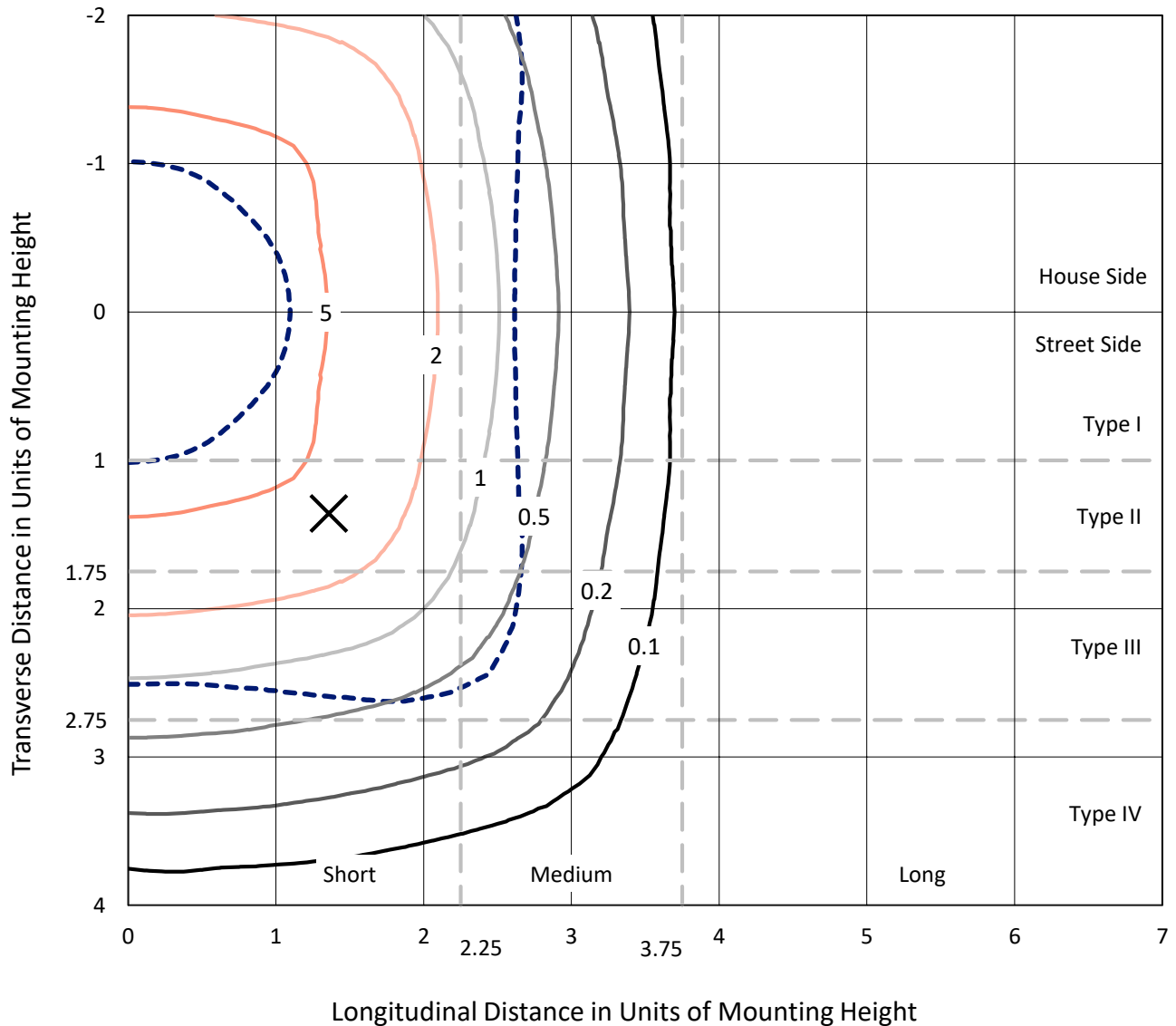
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

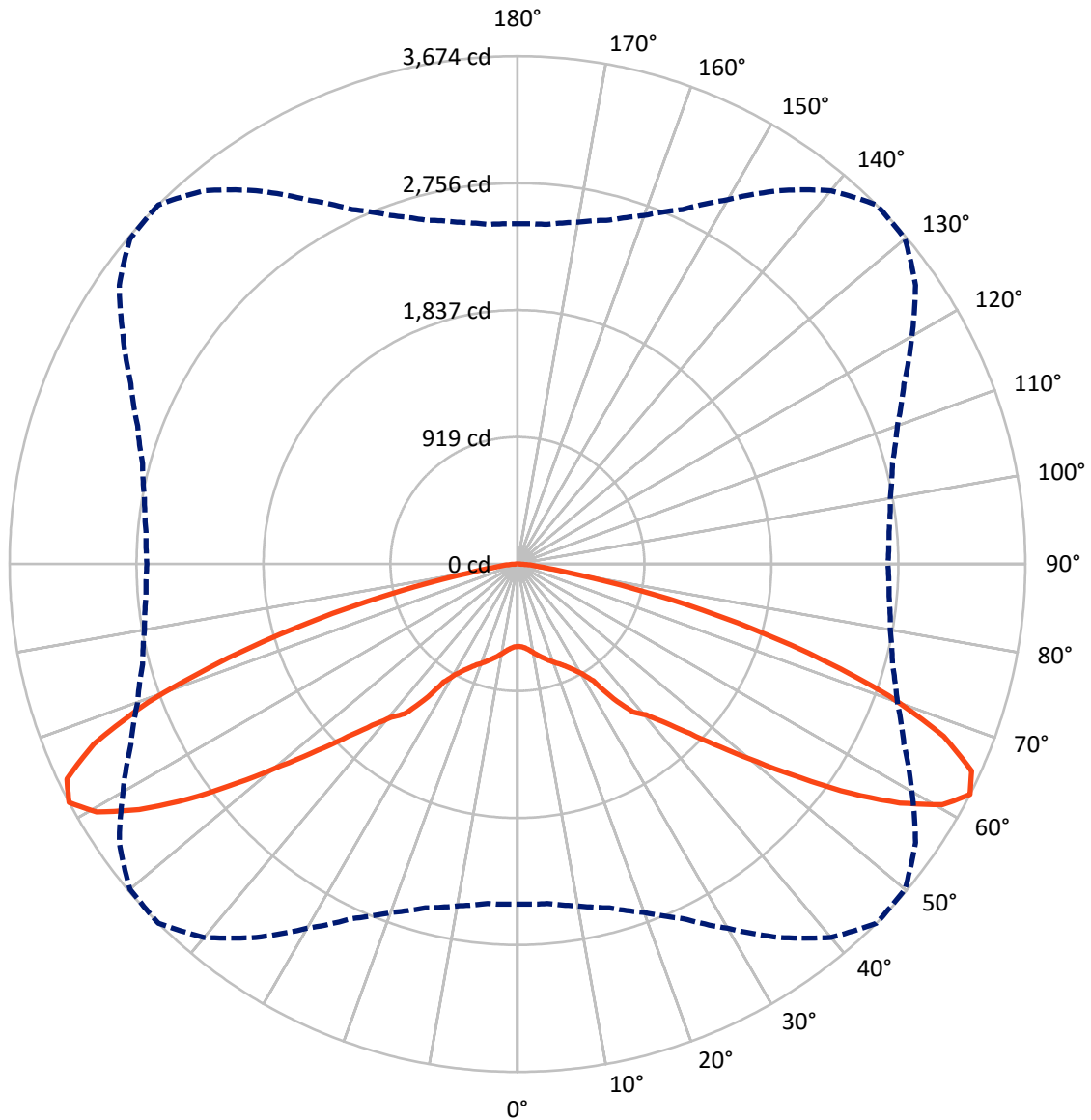
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4492.2	0.0	4492.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4492.2	0.0	4492.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8984.5	0.0	8984.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.7
10°-20°	202.0	2.2
20°-30°	390.6	4.3
30°-40°	756.3	8.4
40°-50°	1365.7	15.2
50°-60°	2374.7	26.4
60°-70°	2695.9	30.0
70°-80°	1045.2	11.6
80°-90°	94.3	1.0
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°	8984.5	100.0
0°-180°	8984.5	100.0



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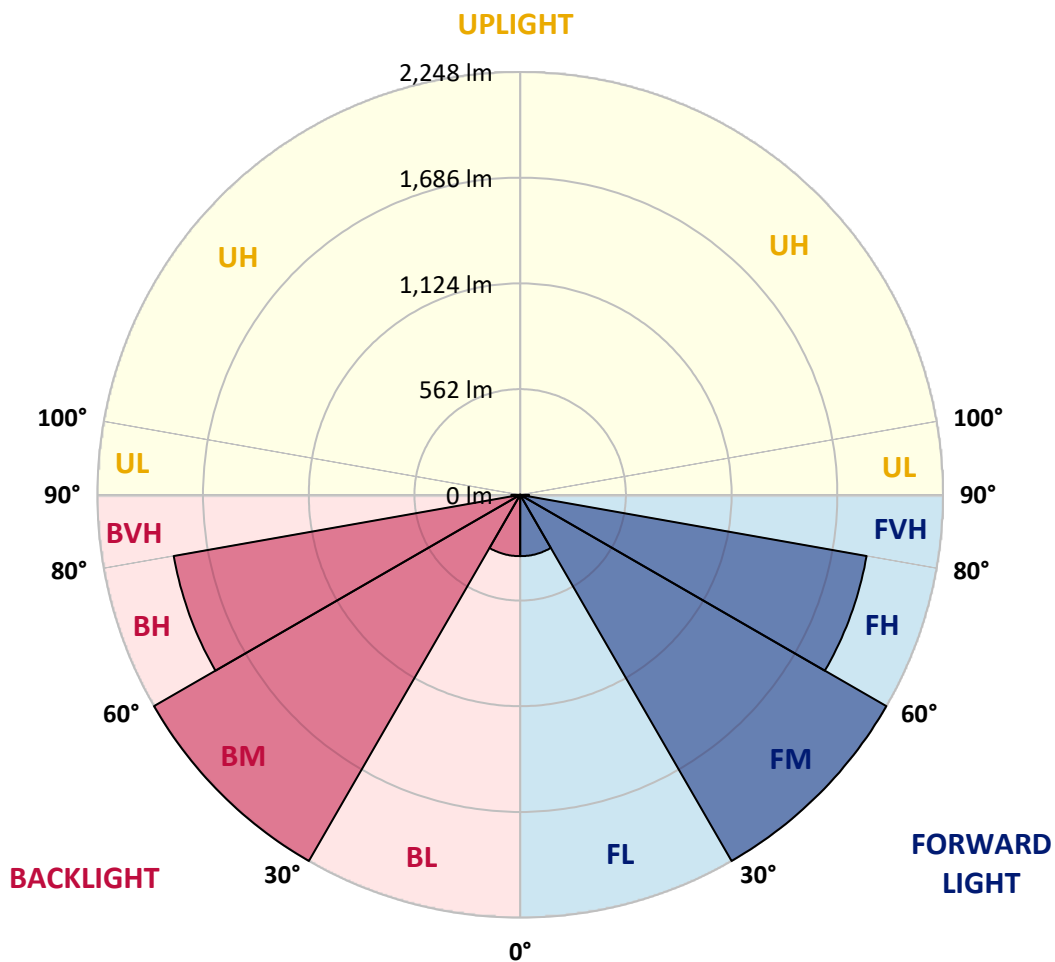
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.2	3.6			
FM	(30°-60°)	2248.3	25.0			
FH	(60°-80°)	1870.5	20.8			G2/5000
FVH	(80°-90°)	47.1	0.5			G1/100
BL	(0°-30°)	326.2	3.6	B1/500		
BM	(30°-60°)	2248.3	25.0	B2/2500		
BH	(60°-80°)	1870.5	20.8	B3/2500		G2/5000
BVH	(80°-90°)	47.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	600.1	602.0	601.5	600.6	600.6	600.6	600.2	598.8	598.2	599.2	600.2
5°	614.1	614.1	614.1	614.1	613.1	613.1	612.2	611.3	611.7	610.8	610.4
7.5°	635.4	634.0	634.0	633.6	633.6	632.5	631.3	629.4	629.8	629.3	628.9
10°	660.5	660.9	659.6	660.9	658.7	658.2	656.4	655.3	654.9	653.6	653.5
12.5°	690.8	689.3	689.3	688.4	687.5	686.5	683.7	683.3	681.5	680.4	679.1
15°	719.0	718.5	716.7	714.8	714.4	713.4	710.2	708.4	707.9	705.5	703.6
17.5°	747.4	746.4	744.0	743.2	741.2	739.9	737.2	734.4	733.0	732.0	729.7
20°	777.5	776.6	774.3	772.4	770.2	768.3	764.1	761.8	760.4	759.0	757.1
22.5°	815.1	813.3	809.5	806.3	801.2	799.4	793.8	790.6	788.2	786.3	785.4
25°	856.1	856.6	851.4	847.3	841.2	836.1	829.1	825.4	823.0	821.1	820.7
27.5°	907.2	907.6	903.0	897.0	887.7	882.1	872.7	868.2	866.7	864.9	864.5
30°	988.0	983.8	976.0	966.1	957.8	945.7	932.2	927.7	922.9	921.6	921.6
32.5°	1136.6	1134.3	1127.8	1103.6	1092.4	1067.4	1043.7	1030.3	1014.9	1007.5	1002.9
35°	1240.6	1239.8	1234.6	1226.2	1219.3	1214.1	1200.2	1197.9	1195.1	1195.1	1198.9
37.5°	1317.3	1311.7	1310.8	1312.1	1310.3	1311.3	1322.5	1337.8	1350.7	1357.3	1356.3
40°	1430.7	1422.7	1427.4	1424.0	1419.9	1419.1	1422.8	1428.8	1434.8	1434.8	1433.4
42.5°	1578.9	1582.6	1584.4	1570.9	1562.1	1559.8	1568.5	1566.7	1572.7	1570.5	1564.4
45°	1799.0	1796.7	1793.4	1777.2	1763.2	1752.0	1754.4	1751.1	1751.6	1747.9	1743.2
47.5°	2020.9	2028.8	2015.3	2007.5	1991.7	1983.8	1990.4	1984.8	1995.4	1976.0	1966.6
50°	2236.5	2242.1	2237.5	2226.3	2226.3	2237.5	2245.4	2255.5	2270.5	2248.1	2214.7
52.5°	2413.1	2417.6	2424.7	2434.0	2456.7	2480.4	2513.8	2549.6	2577.9	2573.7	2535.6
55°	2520.8	2526.4	2538.0	2569.9	2610.9	2673.2	2748.8	2832.0	2897.0	2928.6	2900.7
57.5°	2557.1	2561.2	2592.7	2631.3	2694.9	2787.4	2914.2	3057.8	3182.7	3262.2	3249.5
60°	2548.6	2548.7	2580.7	2633.7	2722.8	2845.5	3024.8	3223.6	3414.9	3533.9	3516.3
62.5°	2460.8	2465.5	2511.5	2575.1	2682.9	2829.6	3043.3	3297.4	3526.4	3674.2	3659.7
65°	2268.6	2271.8	2321.5	2397.3	2517.5	2691.2	2924.9	3206.3	3468.8	3611.0	3584.0
67.5°	1957.8	1961.0	2001.5	2086.9	2214.3	2395.9	2648.1	2957.9	3214.7	3327.2	3246.3
70°	1557.4	1566.7	1592.7	1683.3	1779.9	1957.8	2190.1	2499.9	2742.4	2848.7	2759.6
72.5°	1061.3	1085.0	1116.7	1197.0	1289.4	1437.1	1622.0	1883.0	2077.7	2200.8	2121.3
75°	597.8	631.2	641.0	701.9	778.0	894.6	1029.8	1217.0	1413.5	1513.4	1417.6
77.5°	258.2	285.6	297.8	326.1	385.5	434.3	516.5	642.9	794.8	864.9	750.1
80°	127.3	133.7	138.9	147.8	164.5	180.3	219.3	274.6	336.7	352.5	280.5
82.5°	98.4	103.1	111.9	119.0	123.1	127.3	131.0	138.4	144.5	147.8	139.4
85°	69.2	75.2	85.0	92.8	97.6	100.7	104.0	106.3	100.7	92.0	96.6
87.5°	18.1	23.7	33.0	35.8	40.4	42.7	41.9	43.2	39.1	28.3	31.5
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°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	599.7	599.2	599.6	599.6	599.7	599.2	599.2	599.2
5°	610.4	610.4	610.8	609.8	609.8	610.4	609.9	609.4
7.5°	628.4	628.0	628.0	627.6	628.0	627.6	627.6	627.0
10°	652.6	651.6	652.1	650.8	650.8	650.4	650.3	650.3
12.5°	678.5	677.2	677.7	676.4	674.0	674.4	674.8	674.4
15°	703.6	702.3	700.9	700.0	698.7	699.1	699.1	698.5
17.5°	729.2	726.4	726.0	724.6	724.1	724.1	724.1	724.6
20°	755.6	753.8	753.4	752.0	751.5	753.0	753.4	752.4
22.5°	784.0	783.1	784.0	783.2	784.6	785.4	785.9	785.0
25°	819.9	818.9	820.3	823.5	825.4	826.3	828.7	827.8
27.5°	865.9	864.9	868.2	872.7	875.5	880.2	882.5	883.4
30°	925.3	929.4	931.3	940.5	942.4	949.8	949.8	953.2
32.5°	1011.6	1019.5	1033.5	1047.9	1067.8	1082.3	1082.3	1089.7
35°	1201.2	1204.5	1215.1	1217.4	1221.6	1226.2	1221.6	1225.3
37.5°	1346.5	1332.1	1322.0	1307.6	1298.7	1298.7	1299.7	1298.8
40°	1420.9	1415.3	1410.7	1398.5	1396.7	1396.3	1396.3	1398.1
42.5°	1553.8	1540.3	1532.8	1522.6	1519.4	1518.3	1517.9	1518.9
45°	1726.4	1704.7	1684.8	1674.5	1665.7	1657.3	1660.1	1660.1
47.5°	1927.7	1893.7	1861.1	1843.5	1828.2	1821.3	1816.6	1815.2
50°	2172.4	2125.0	2083.2	2050.3	2028.0	2027.6	2029.8	2014.9
52.5°	2472.5	2397.7	2345.7	2301.1	2280.2	2277.9	2270.5	2262.1
55°	2805.0	2716.4	2630.5	2582.6	2555.2	2540.3	2531.5	2517.5
57.5°	3147.9	3028.4	2904.9	2828.3	2780.0	2746.5	2728.9	2721.0
60°	3412.1	3249.1	3086.1	2963.0	2882.7	2833.0	2802.3	2789.7
62.5°	3516.2	3295.1	3086.0	2924.4	2808.3	2739.6	2698.2	2680.1
65°	3392.1	3130.2	2892.4	2714.0	2584.5	2507.8	2462.8	2443.2
67.5°	3045.7	2814.3	2555.6	2378.2	2245.0	2169.1	2120.4	2106.0
70°	2553.4	2316.9	2069.7	1911.3	1792.4	1730.7	1680.0	1674.0
72.5°	1918.8	1714.9	1503.0	1372.1	1276.5	1174.3	1148.2	1161.2
75°	1230.1	1039.1	850.5	732.4	645.2	547.6	510.1	519.3
77.5°	582.4	451.0	325.6	251.8	211.4	180.7	172.8	168.2
80°	216.0	175.1	154.6	146.7	141.1	136.2	132.4	128.2
82.5°	139.9	136.6	132.4	131.0	126.8	120.3	108.2	103.1
85°	104.5	104.5	99.0	99.5	96.2	87.9	76.6	70.6
87.5°	30.7	27.4	25.1	23.2	22.8	20.4	14.8	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)