

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: P198503

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-5WQ-7030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11105 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

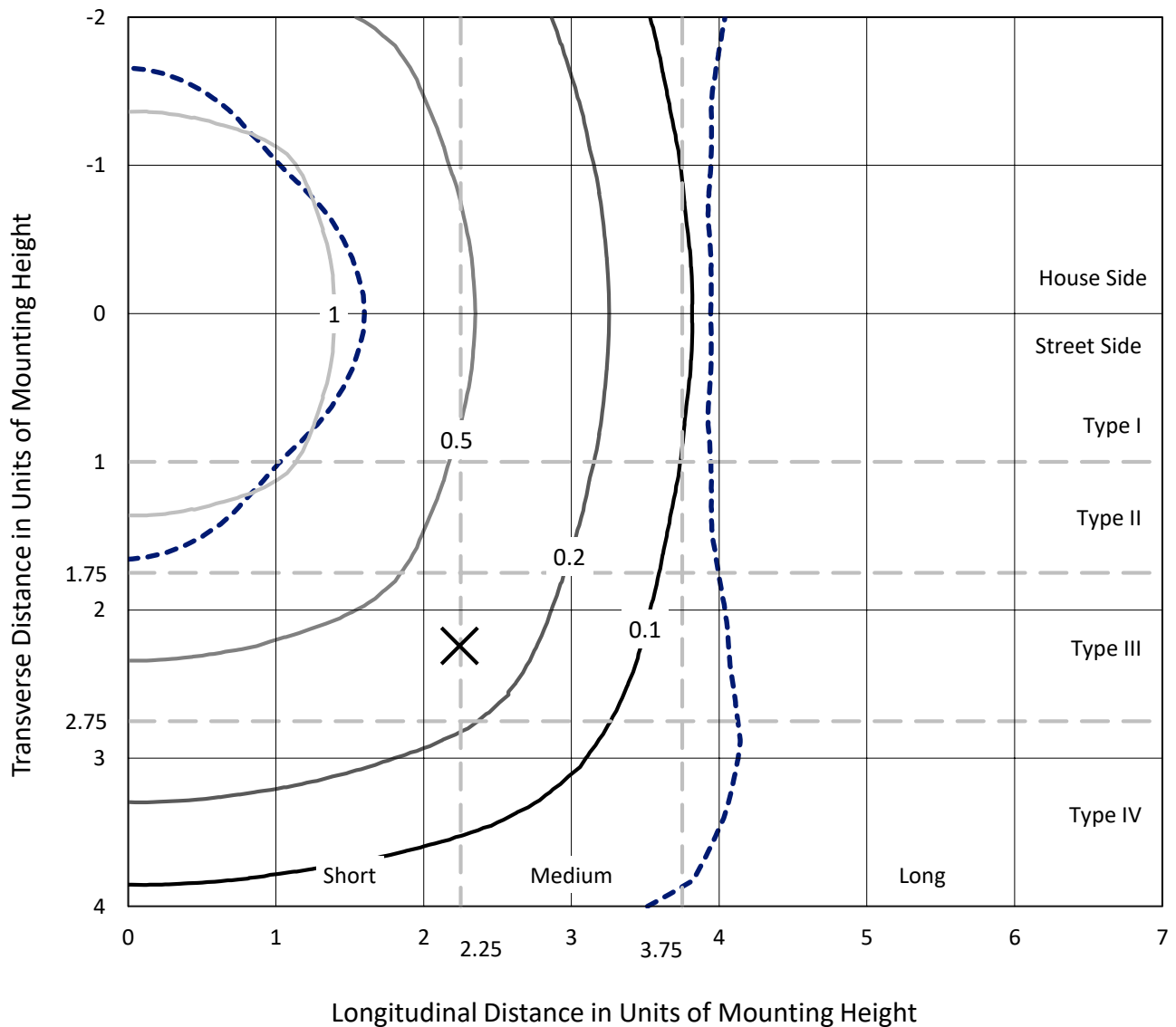
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

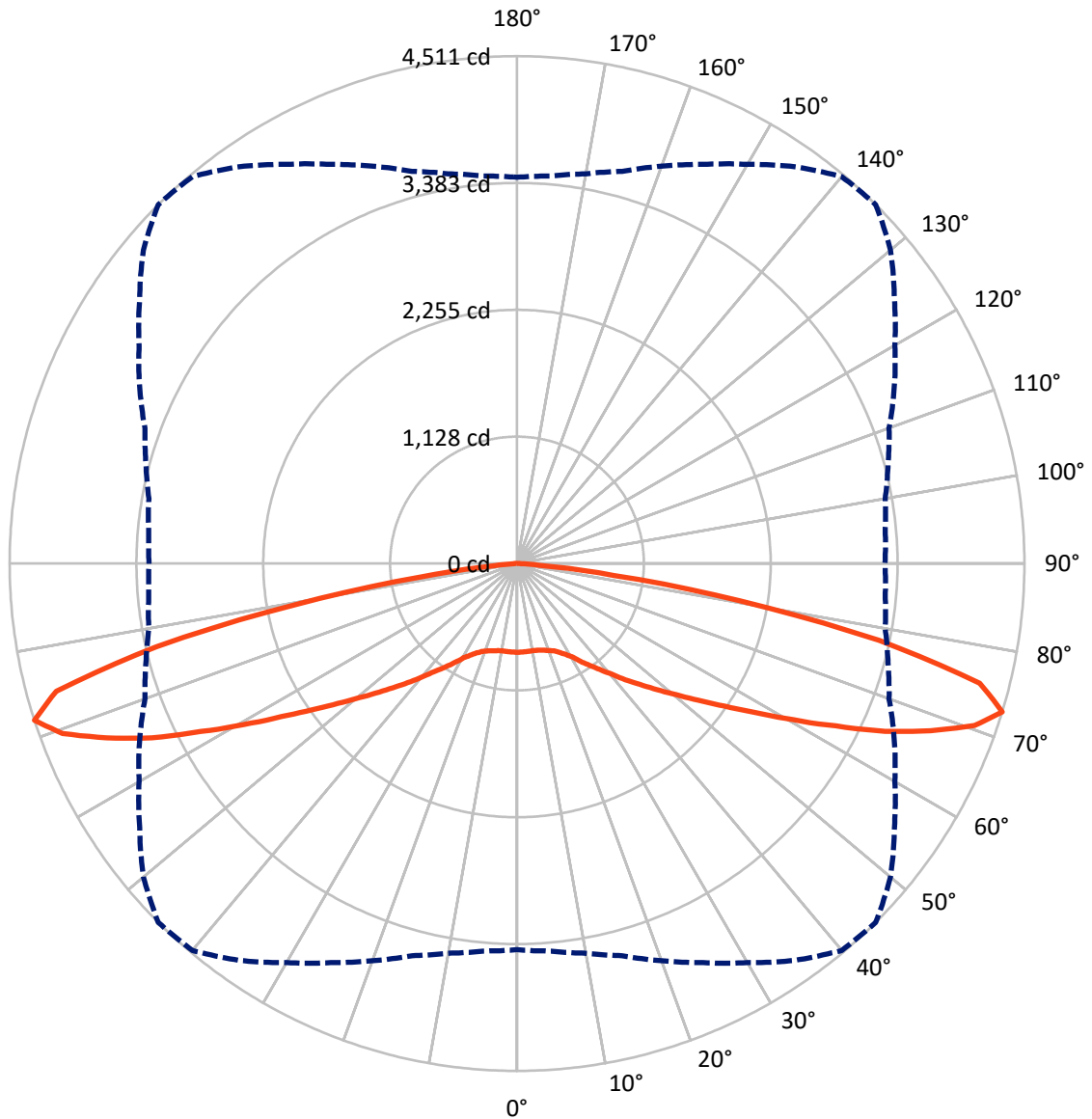


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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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	5552.5	0.0	5552.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5552.5	0.0	5552.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11105.0	0.0	11105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	0.7
10°-20°	228.1	2.1
20°-30°	411.7	3.7
30°-40°	702.3	6.3
40°-50°	1195.6	10.8
50°-60°	1924.1	17.3
60°-70°	3199.9	28.8
70°-80°	3095.5	27.9
80°-90°	272.4	2.5
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°	11105.0	100.0
0°-180°	11105.0	100.0



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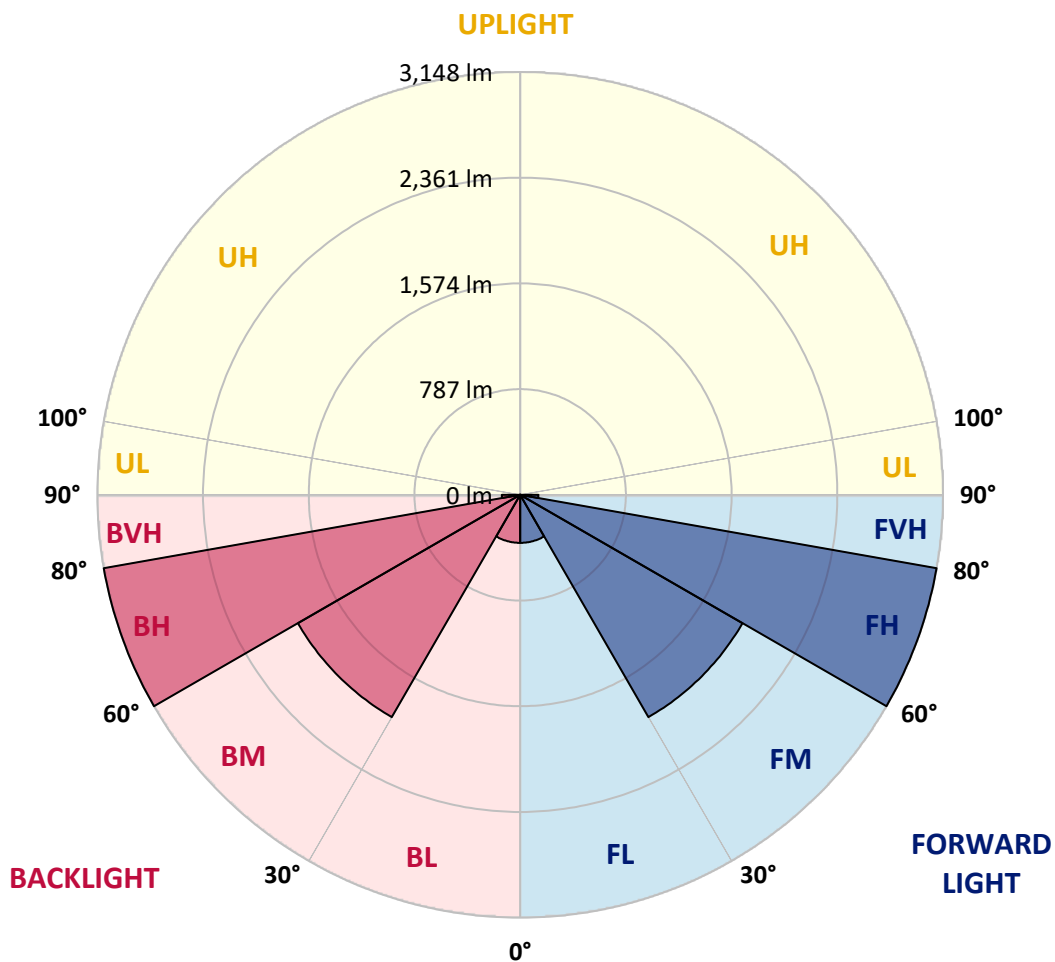
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.6	3.2			
FM	(30°-60°)	1911.0	17.2			
FH	(60°-80°)	3147.7	28.3			G2/5000
FVH	(80°-90°)	136.2	1.2			G2/225
BL	(0°-30°)	357.6	3.2	B1/500		
BM	(30°-60°)	1911.0	17.2	B2/2500		
BH	(60°-80°)	3147.7	28.3	B4/5000		G2/5000
BVH	(80°-90°)	136.2	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5
2.5°	795.6	795.6	796.3	795.6	794.3	793.6	791.5	790.2	788.8	788.1	786.7
5°	796.3	796.3	797.0	796.3	795.0	793.6	792.2	790.2	788.8	787.4	786.7
7.5°	799.1	799.7	800.4	799.7	797.0	795.6	793.6	791.5	788.8	787.4	786.1
10°	804.5	804.5	804.5	803.8	801.8	799.1	796.3	794.3	790.8	787.4	785.4
12.5°	808.6	809.3	809.3	807.9	805.2	801.8	799.1	797.0	794.3	791.5	789.5
15°	814.8	814.8	814.1	811.4	807.3	804.5	803.2	802.5	801.8	800.4	798.4
17.5°	827.1	826.4	824.3	820.2	815.5	813.4	812.0	812.0	812.0	811.4	810.0
20°	844.8	844.8	842.1	835.3	831.2	829.1	827.1	827.1	827.1	825.0	823.0
22.5°	873.6	874.2	870.1	861.9	856.5	852.4	849.6	847.6	845.5	844.2	840.7
25°	912.5	911.8	907.1	896.8	892.7	888.6	883.1	879.7	877.0	874.9	870.8
27.5°	953.5	952.8	947.4	938.5	935.8	929.6	925.5	920.7	917.3	913.9	909.8
30°	1006.2	1002.7	998.6	991.8	990.4	985.7	980.2	973.4	967.9	962.4	957.6
32.5°	1053.3	1053.3	1047.2	1043.8	1046.5	1044.4	1045.1	1041.0	1037.6	1035.6	1030.8
35°	1118.9	1118.9	1116.2	1112.1	1112.8	1108.0	1107.3	1108.0	1110.7	1110.7	1105.3
37.5°	1206.4	1207.8	1198.9	1197.6	1194.1	1187.3	1183.9	1185.2	1191.4	1194.8	1187.3
40°	1315.1	1317.9	1315.1	1306.2	1302.1	1290.5	1283.7	1283.7	1288.5	1291.9	1289.1
42.5°	1422.4	1427.2	1422.4	1415.6	1412.2	1403.3	1399.9	1402.6	1408.8	1412.9	1408.8
45°	1542.1	1545.5	1539.3	1531.1	1527.0	1522.2	1520.2	1522.2	1529.1	1533.2	1531.8
47.5°	1659.6	1664.4	1656.9	1653.5	1653.5	1648.7	1654.2	1659.6	1665.8	1675.3	1671.2
50°	1774.5	1780.6	1775.8	1776.5	1782.0	1790.9	1801.1	1812.0	1823.0	1833.2	1834.6
52.5°	1877.0	1886.6	1887.2	1899.5	1916.6	1930.3	1959.0	1982.9	2008.9	2017.8	2013.7
55°	1985.0	1998.0	2015.1	2034.2	2061.5	2089.6	2138.1	2181.2	2215.3	2236.5	2233.1
57.5°	2139.5	2152.4	2170.2	2201.7	2242.7	2281.0	2347.3	2414.2	2466.2	2498.3	2482.6
60°	2339.7	2353.4	2376.6	2410.1	2463.5	2515.4	2606.3	2702.7	2783.4	2820.3	2791.6
62.5°	2604.9	2617.9	2633.0	2677.4	2736.9	2803.9	2918.0	3041.7	3144.3	3179.8	3139.5
65°	2982.9	2998.7	3003.4	3039.7	3097.8	3160.0	3283.0	3422.5	3539.3	3597.4	3516.8
67.5°	3408.8	3414.9	3434.1	3476.5	3535.9	3592.0	3689.0	3821.0	3933.1	3965.2	3879.1
70°	3658.3	3670.6	3704.1	3762.9	3833.9	3922.1	4028.1	4170.2	4297.4	4312.4	4203.1
72.5°	3432.7	3458.0	3517.5	3609.1	3758.1	3914.6	4097.1	4306.9	4489.5	4510.6	4335.0
75°	2753.3	2782.0	2853.1	2953.6	3129.9	3362.3	3626.1	3941.3	4214.7	4249.5	4017.1
77.5°	1467.5	1503.1	1606.3	1741.6	1993.2	2300.8	2618.6	2978.2	3210.6	3289.2	3121.7
80°	369.8	388.9	438.8	518.1	688.3	936.4	1210.5	1597.4	1885.9	2008.2	1885.9
82.5°	143.5	157.9	171.6	181.1	197.5	231.7	319.9	521.5	702.7	865.4	749.2
85°	55.4	58.8	84.8	96.4	96.4	105.9	121.7	143.5	177.7	194.1	162.7
87.5°	21.9	23.9	29.4	45.1	46.5	41.0	43.7	49.2	37.6	31.4	35.5
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°	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5
2.5°	786.1	785.4	784.0	784.7	784.0	784.0	784.0	784.0
5°	785.4	785.4	784.0	784.0	784.0	784.7	784.0	784.0
7.5°	784.7	784.0	782.6	782.0	782.0	781.3	781.3	781.3
10°	783.3	782.0	780.6	779.9	779.9	778.5	778.5	778.5
12.5°	786.7	784.7	783.3	782.6	782.6	782.6	783.3	783.3
15°	796.3	792.2	790.2	789.5	790.2	791.5	792.2	792.9
17.5°	806.6	802.5	799.1	797.7	798.4	800.4	802.5	803.8
20°	819.6	816.1	812.0	810.7	810.7	813.4	814.8	816.8
22.5°	838.0	835.3	831.9	829.8	828.4	831.9	833.9	835.3
25°	867.4	864.7	861.9	859.9	859.2	862.6	864.0	864.7
27.5°	906.4	903.6	902.3	901.6	899.5	900.9	902.9	902.3
30°	956.9	959.0	956.9	956.9	953.5	954.9	953.5	952.2
32.5°	1024.6	1022.6	1016.4	1012.3	1007.5	1007.5	1005.5	1003.4
35°	1092.3	1085.5	1082.0	1084.1	1082.0	1083.4	1080.0	1076.6
37.5°	1172.3	1168.2	1167.5	1173.6	1172.3	1173.6	1173.6	1168.8
40°	1278.2	1275.5	1280.3	1290.5	1294.6	1293.9	1295.3	1289.1
42.5°	1399.9	1395.1	1397.1	1406.0	1410.8	1412.2	1411.5	1406.0
45°	1521.5	1522.9	1522.9	1532.5	1537.3	1540.0	1535.2	1533.2
47.5°	1658.9	1661.0	1656.2	1662.4	1663.7	1668.5	1664.4	1661.0
50°	1817.5	1810.0	1799.1	1801.1	1801.1	1799.7	1795.0	1790.9
52.5°	1994.6	1977.5	1957.0	1950.1	1942.6	1935.1	1925.5	1918.0
55°	2196.2	2166.8	2129.9	2112.8	2098.5	2081.4	2059.5	2052.0
57.5°	2430.0	2379.4	2330.2	2299.4	2262.5	2239.9	2211.9	2210.5
60°	2707.5	2639.1	2552.3	2506.5	2469.6	2443.0	2421.8	2413.6
62.5°	3028.1	2910.5	2816.8	2767.6	2724.6	2708.2	2681.5	2684.9
65°	3356.8	3237.2	3146.3	3106.7	3066.3	3055.4	3030.8	3039.7
67.5°	3713.0	3614.5	3514.7	3477.8	3440.9	3430.0	3404.7	3412.2
70°	4032.2	3907.1	3793.6	3721.2	3658.3	3607.7	3575.6	3562.6
72.5°	4095.7	3879.1	3700.7	3519.5	3414.9	3323.3	3285.7	3271.4
75°	3680.1	3343.8	3089.6	2877.0	2759.4	2626.1	2611.8	2592.0
77.5°	2862.6	2479.9	2172.3	1898.9	1741.0	1578.3	1522.2	1479.9
80°	1707.5	1312.4	1017.1	712.9	581.7	468.2	440.2	410.8
82.5°	611.1	391.7	263.8	205.7	183.9	169.5	158.6	144.2
85°	147.6	124.4	117.6	106.6	105.3	89.5	63.6	56.7
87.5°	47.2	43.1	43.7	41.7	43.7	32.8	26.7	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)