

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: P198661

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198661
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-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10368.6 lumens
Efficiency: N/A
Efficacy: 122.0 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

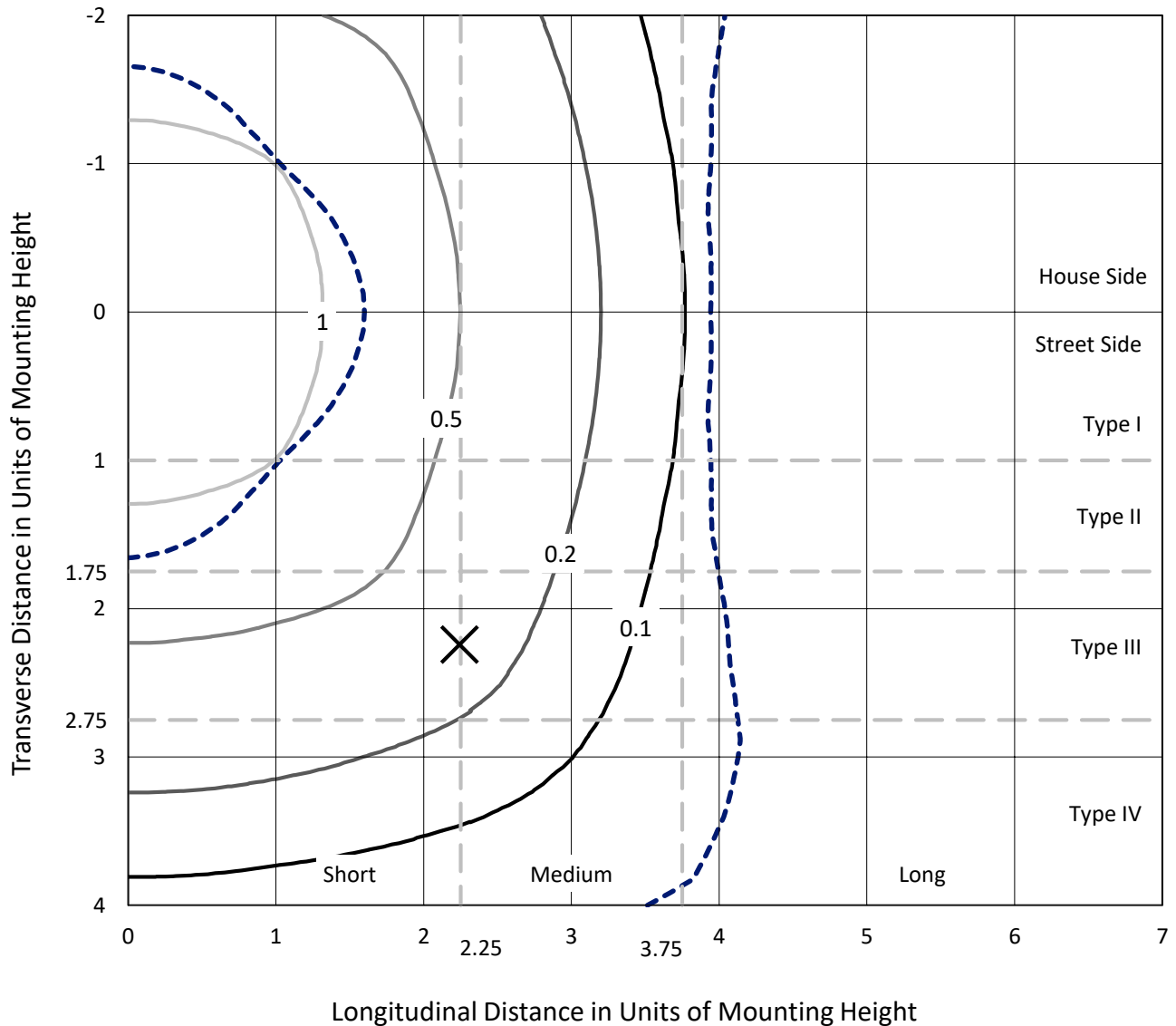
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

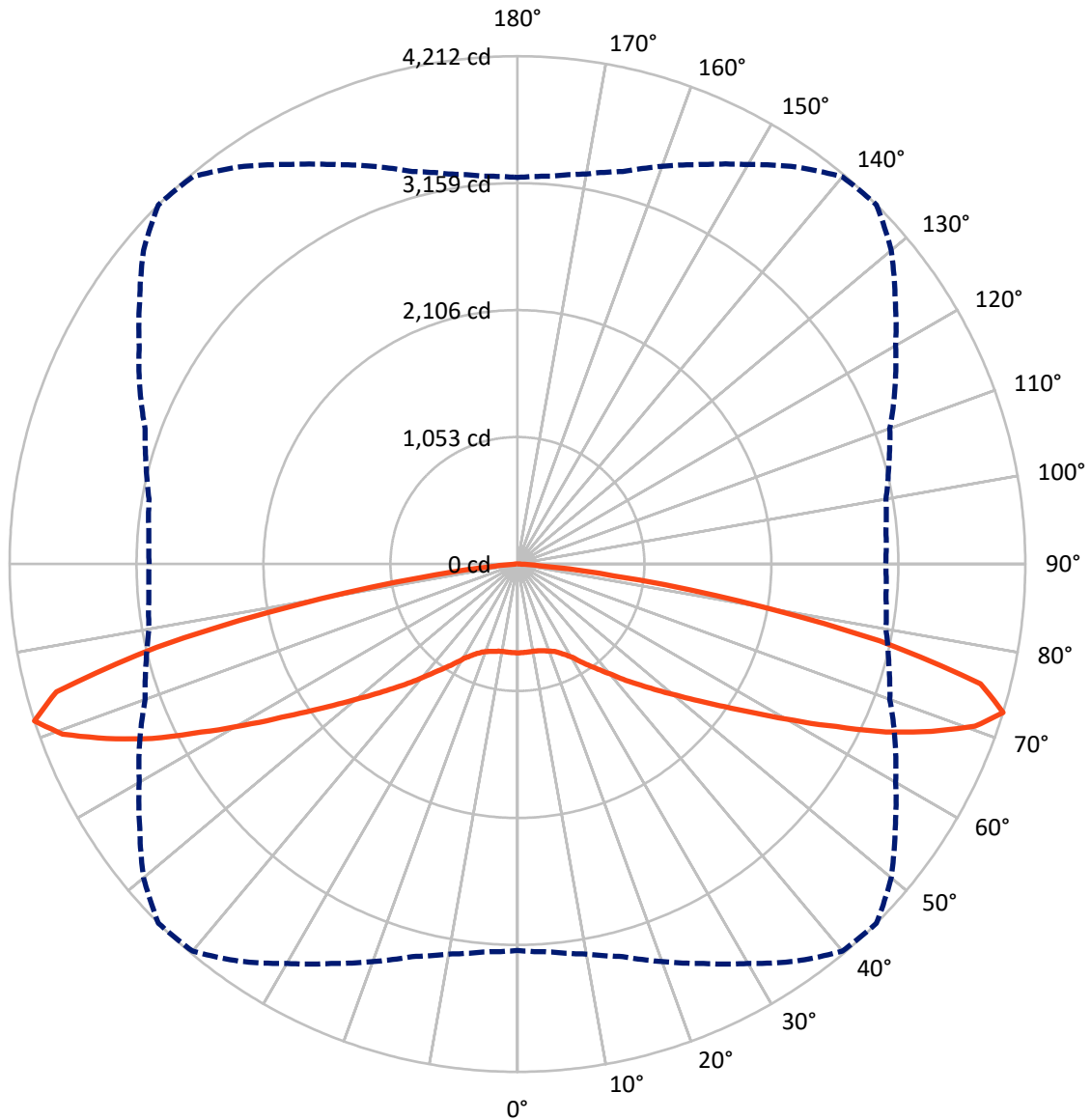
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.8 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	5184.3	0.0	5184.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5184.3	0.0	5184.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10368.6	0.0	10368.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	0.7
10°-20°	212.9	2.1
20°-30°	384.4	3.7
30°-40°	655.7	6.3
40°-50°	1116.3	10.8
50°-60°	1796.6	17.3
60°-70°	2987.7	28.8
70°-80°	2890.3	27.9
80°-90°	254.4	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°	10368.6	100.0
0°-180°	10368.6	100.0



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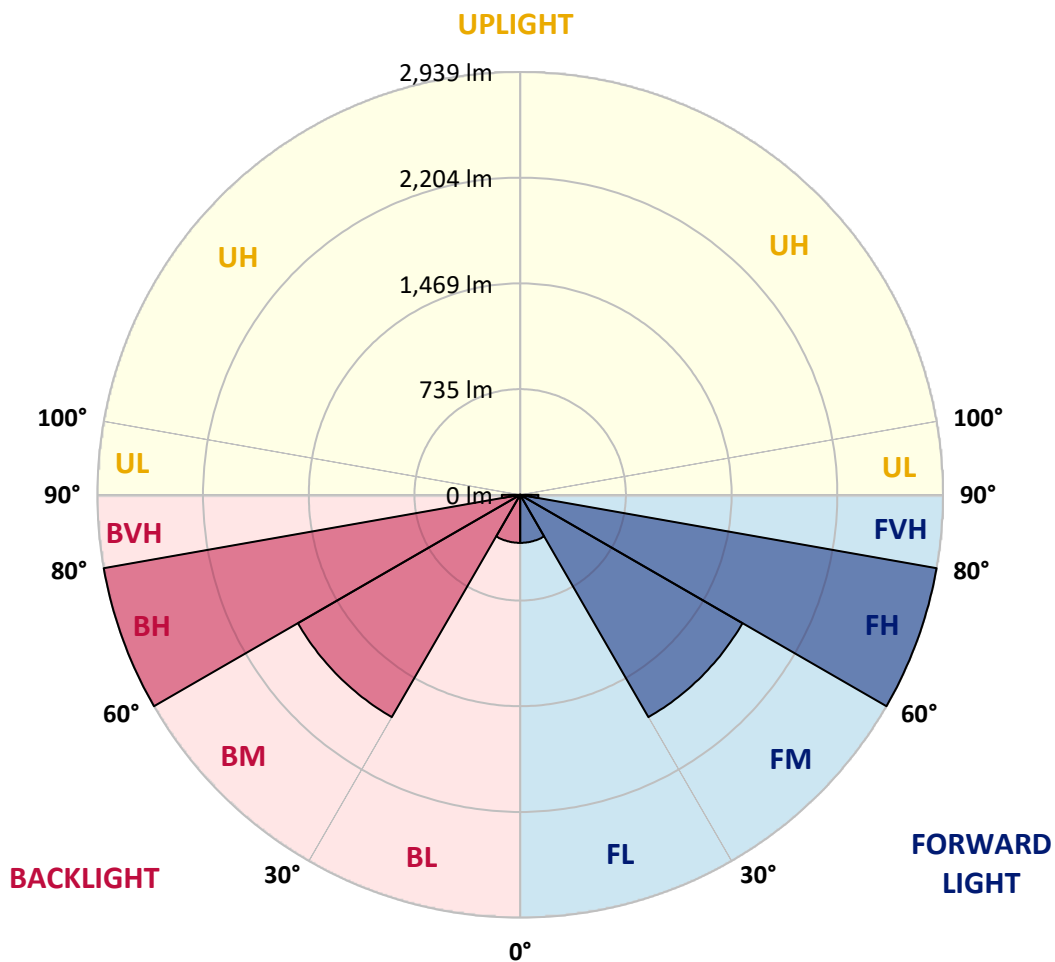
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.8	3.2			
FM	(30°-60°)	1784.3	17.2			
FH	(60°-80°)	2939.0	28.3			G2/5000
FVH	(80°-90°)	127.2	1.2			G2/225
BL	(0°-30°)	333.8	3.2	B1/500		
BM	(30°-60°)	1784.3	17.2	B2/2500		
BH	(60°-80°)	2939.0	28.3	B4/5000		G2/5000
BVH	(80°-90°)	127.2	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°	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
2.5°	742.9	742.9	743.5	742.9	741.6	740.9	739.1	737.8	736.5	735.8	734.6
5°	743.5	743.5	744.2	743.5	742.3	740.9	739.7	737.8	736.5	735.2	734.6
7.5°	746.0	746.8	747.4	746.8	744.2	742.9	740.9	739.1	736.5	735.2	734.0
10°	751.2	751.2	751.2	750.5	748.6	746.0	743.5	741.6	738.4	735.2	733.4
12.5°	755.0	755.7	755.7	754.3	751.8	748.6	746.0	744.2	741.6	739.1	737.1
15°	760.8	760.8	760.2	757.6	753.7	751.2	749.9	749.2	748.6	747.4	745.4
17.5°	772.2	771.6	769.7	765.9	761.4	759.4	758.2	758.2	758.2	757.6	756.3
20°	788.8	788.8	786.2	779.9	776.1	774.2	772.2	772.2	772.2	770.3	768.4
22.5°	815.6	816.3	812.4	804.8	799.6	795.9	793.3	791.4	789.5	788.2	785.0
25°	852.0	851.4	846.9	837.3	833.5	829.7	824.6	821.3	818.9	816.9	813.0
27.5°	890.3	889.7	884.5	876.3	873.7	868.0	864.1	859.7	856.5	853.2	849.5
30°	939.5	936.2	932.4	926.1	924.7	920.3	915.2	908.8	903.7	898.6	894.2
32.5°	983.5	983.5	977.7	974.6	977.1	975.2	975.8	972.0	968.8	966.9	962.4
35°	1044.7	1044.7	1042.2	1038.4	1039.0	1034.5	1033.9	1034.5	1037.1	1037.1	1032.0
37.5°	1126.5	1127.7	1119.4	1118.2	1114.9	1108.6	1105.4	1106.6	1112.4	1115.6	1108.6
40°	1228.0	1230.5	1228.0	1219.7	1215.8	1204.9	1198.6	1198.6	1203.0	1206.3	1203.7
42.5°	1328.1	1332.6	1328.1	1321.8	1318.6	1310.2	1307.0	1309.6	1315.3	1319.2	1315.3
45°	1439.8	1443.0	1437.2	1429.6	1425.8	1421.3	1419.3	1421.3	1427.6	1431.5	1430.2
47.5°	1549.6	1554.1	1547.0	1543.8	1543.8	1539.3	1544.5	1549.6	1555.3	1564.3	1560.4
50°	1656.8	1662.5	1658.1	1658.7	1663.8	1672.1	1681.7	1691.9	1702.1	1711.7	1712.9
52.5°	1752.5	1761.4	1762.1	1773.6	1789.6	1802.3	1829.1	1851.4	1875.7	1884.0	1880.2
55°	1853.4	1865.5	1881.4	1899.3	1924.9	1951.0	1996.3	2036.5	2068.4	2088.3	2085.1
57.5°	1997.6	2009.7	2026.4	2055.7	2094.0	2129.7	2191.6	2254.2	2302.7	2332.6	2318.0
60°	2184.6	2197.4	2219.1	2250.3	2300.1	2348.6	2433.5	2523.5	2598.8	2633.3	2606.5
62.5°	2432.2	2444.3	2458.4	2499.9	2555.4	2617.9	2724.5	2840.0	2935.8	2968.9	2931.3
65°	2785.2	2799.8	2804.3	2838.1	2892.4	2950.4	3065.3	3195.5	3304.6	3358.9	3283.6
67.5°	3182.7	3188.5	3206.3	3245.9	3301.5	3353.7	3444.4	3567.5	3672.3	3702.3	3621.9
70°	3415.7	3427.2	3458.5	3513.3	3579.7	3662.1	3761.0	3893.8	4012.4	4026.4	3924.3
72.5°	3205.1	3228.7	3284.2	3369.7	3508.8	3655.0	3825.4	4021.3	4191.7	4211.6	4047.5
75°	2570.7	2597.5	2663.9	2757.7	2922.4	3139.3	3385.7	3680.0	3935.2	3967.7	3750.8
77.5°	1370.2	1403.4	1499.7	1626.2	1861.1	2148.2	2445.0	2780.7	2997.7	3071.1	2914.7
80°	345.2	363.1	409.7	483.8	642.7	874.3	1130.3	1491.5	1760.8	1875.1	1760.8
82.5°	134.0	147.4	160.2	169.1	184.4	216.4	298.7	486.9	656.1	807.9	699.5
85°	51.7	54.9	79.2	90.0	90.0	98.9	113.6	134.0	165.9	181.3	151.9
87.5°	20.5	22.3	27.4	42.1	43.4	38.3	40.8	45.9	35.1	29.4	33.1
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°	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
2.5°	734.0	733.4	732.0	732.6	732.0	732.0	732.0	732.0
5°	733.4	733.4	732.0	732.0	732.0	732.6	732.0	732.0
7.5°	732.6	732.0	730.8	730.1	730.1	729.5	729.5	729.5
10°	731.4	730.1	728.9	728.2	728.2	726.9	726.9	726.9
12.5°	734.6	732.6	731.4	730.8	730.8	730.8	731.4	731.4
15°	743.5	739.7	737.8	737.1	737.8	739.1	739.7	740.3
17.5°	753.1	749.2	746.0	744.8	745.4	747.4	749.2	750.5
20°	765.2	762.0	758.2	756.9	756.9	759.4	760.8	762.6
22.5°	782.5	779.9	776.7	774.8	773.6	776.7	778.6	779.9
25°	809.9	807.3	804.8	802.9	802.2	805.4	806.7	807.3
27.5°	846.3	843.7	842.4	841.8	839.8	841.2	843.1	842.4
30°	893.4	895.4	893.4	893.4	890.3	891.6	890.3	889.0
32.5°	956.7	954.7	949.0	945.2	940.7	940.7	938.8	936.9
35°	1019.9	1013.4	1010.3	1012.2	1010.3	1011.6	1008.3	1005.2
37.5°	1094.6	1090.7	1090.1	1095.8	1094.6	1095.8	1095.8	1091.4
40°	1193.5	1190.9	1195.3	1204.9	1208.7	1208.1	1209.4	1203.7
42.5°	1307.0	1302.6	1304.5	1312.8	1317.3	1318.6	1317.9	1312.8
45°	1420.7	1421.9	1421.9	1430.9	1435.3	1437.9	1433.5	1431.5
47.5°	1549.0	1550.9	1546.4	1552.1	1553.4	1557.9	1554.1	1550.9
50°	1697.0	1690.0	1679.8	1681.7	1681.7	1680.4	1675.9	1672.1
52.5°	1862.3	1846.3	1827.2	1820.9	1813.8	1806.7	1797.8	1790.8
55°	2050.6	2023.1	1988.6	1972.7	1959.3	1943.3	1922.9	1915.9
57.5°	2268.8	2221.6	2175.6	2147.0	2112.5	2091.4	2065.2	2064.0
60°	2527.9	2464.1	2383.1	2340.3	2305.8	2281.0	2261.1	2253.6
62.5°	2827.2	2717.5	2630.1	2584.1	2543.9	2528.6	2503.7	2506.8
65°	3134.2	3022.5	2937.7	2900.7	2863.0	2852.8	2829.8	2838.1
67.5°	3466.8	3374.8	3281.6	3247.3	3212.8	3202.6	3178.9	3186.0
70°	3764.8	3648.0	3542.1	3474.5	3415.7	3368.5	3338.5	3326.3
72.5°	3824.2	3621.9	3455.2	3286.1	3188.5	3103.0	3067.8	3054.4
75°	3436.1	3122.1	2884.7	2686.3	2576.4	2452.0	2438.6	2420.1
77.5°	2672.9	2315.4	2028.2	1773.0	1625.5	1473.7	1421.3	1381.7
80°	1594.3	1225.4	949.6	665.6	543.1	437.2	411.0	383.6
82.5°	570.6	365.7	246.3	192.1	171.7	158.3	148.0	134.6
85°	137.9	116.1	109.8	99.5	98.3	83.6	59.3	53.0
87.5°	44.0	40.2	40.8	39.0	40.8	30.6	24.9	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)