

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: P271291

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271291
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-7027-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 8805.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

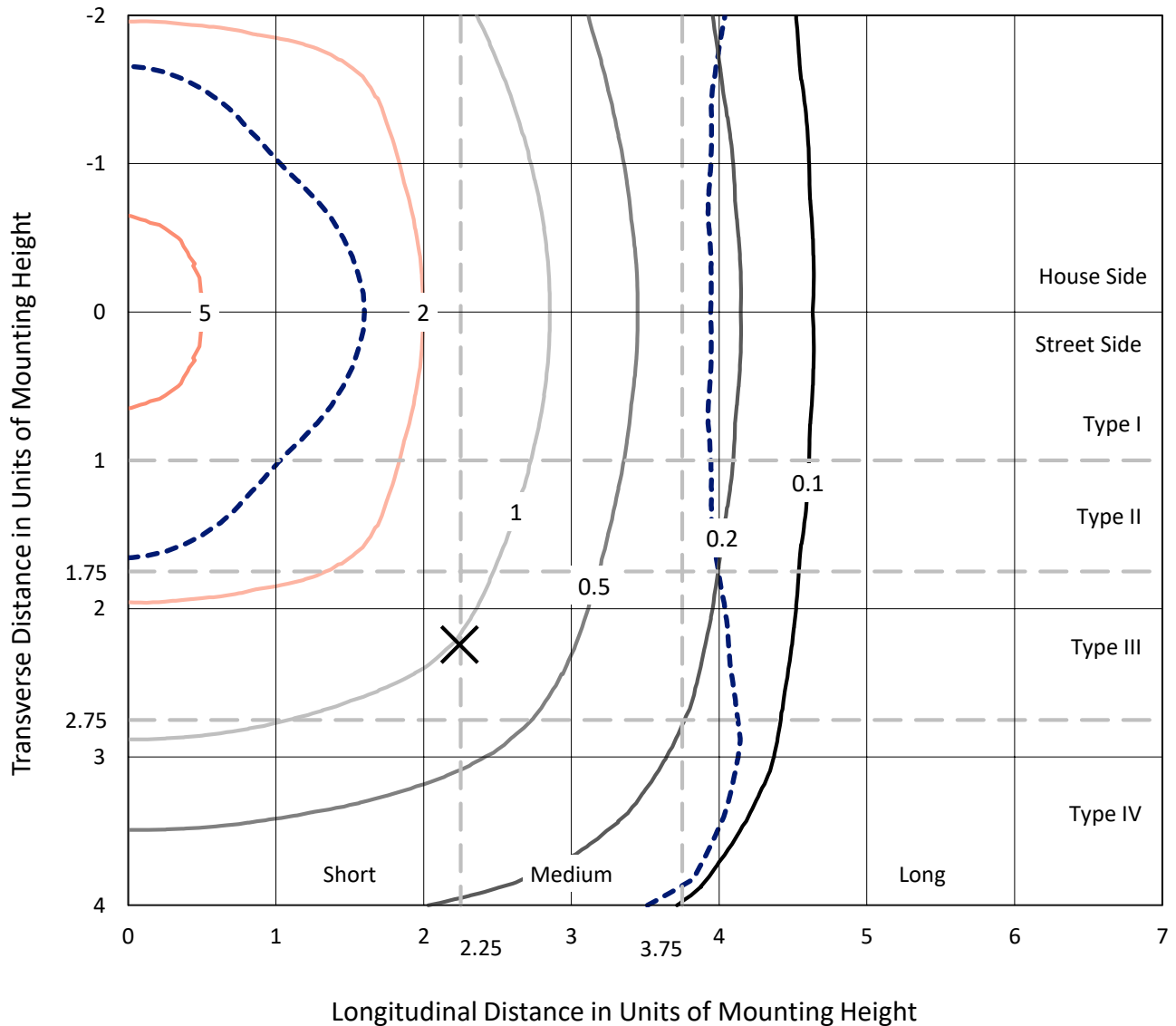
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

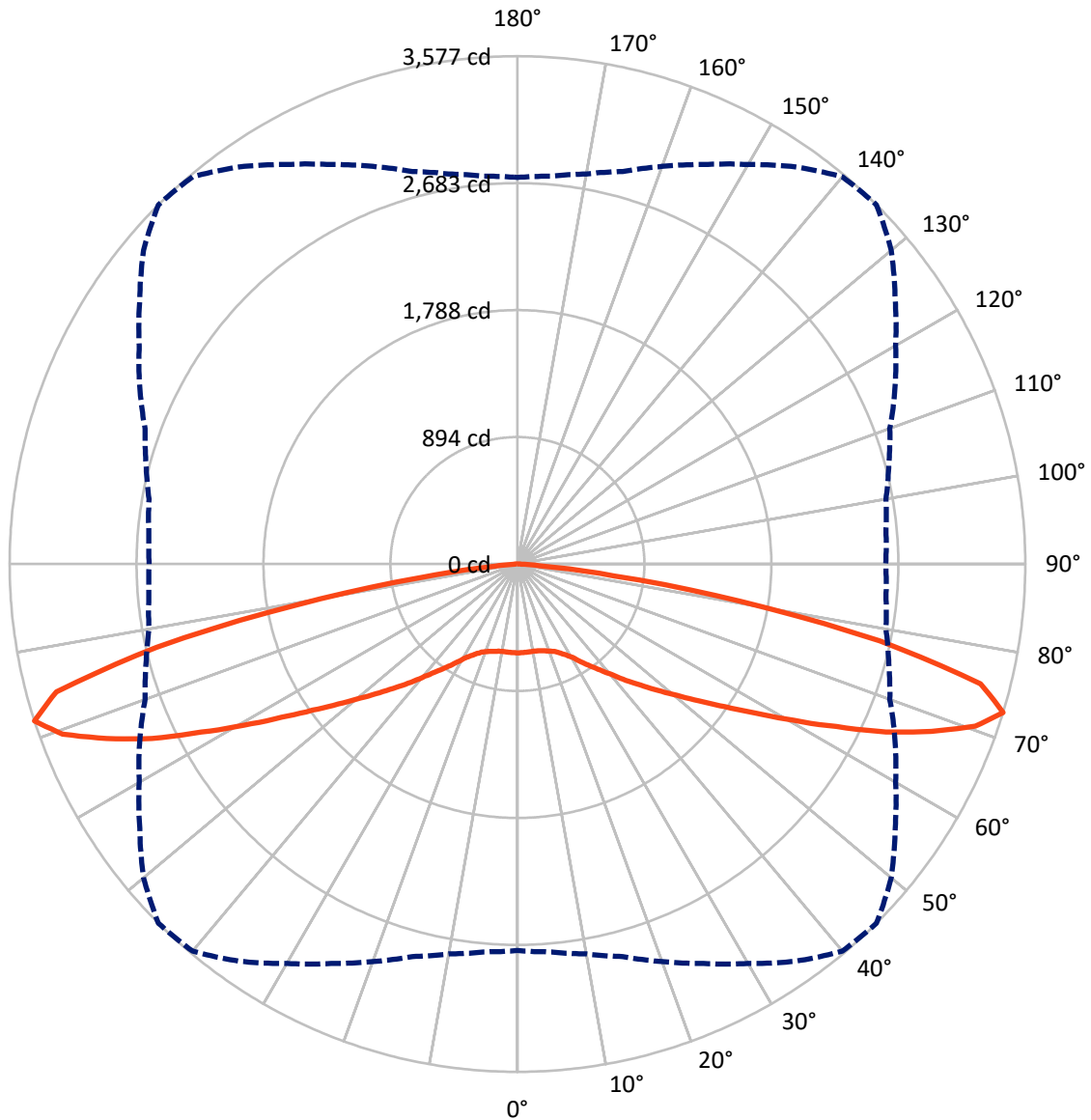


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - Semi-Cutoff

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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	4402.9	0.0	4402.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4402.9	0.0	4402.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8805.8	0.0	8805.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.7
10°-20°	180.8	2.1
20°-30°	326.5	3.7
30°-40°	556.9	6.3
40°-50°	948.1	10.8
50°-60°	1525.8	17.3
60°-70°	2537.4	28.8
70°-80°	2454.6	27.9
80°-90°	216.0	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°	8805.8	100.0
0°-180°	8805.8	100.0



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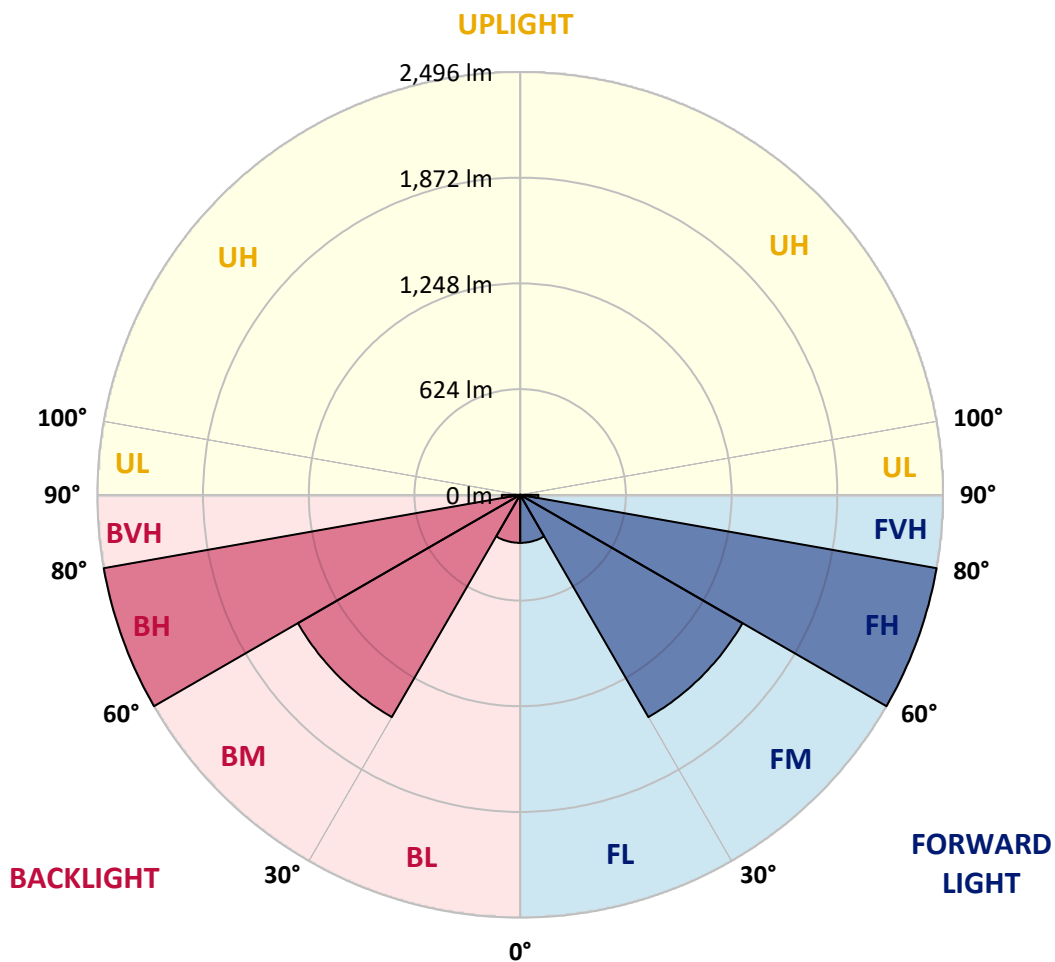
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.5	3.2			
FM	(30°-60°)	1515.4	17.2			
FH	(60°-80°)	2496.0	28.3			G2/5000
FVH	(80°-90°)	108.0	1.2			G2/225
BL	(0°-30°)	283.5	3.2	B1/500		
BM	(30°-60°)	1515.4	17.2	B2/2500		
BH	(60°-80°)	2496.0	28.3	B3/2500		G2/5000
BVH	(80°-90°)	108.0	1.2			G2/225
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°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
2.5°	630.9	630.9	631.5	630.9	629.8	629.4	627.6	626.6	625.5	625.0	623.9
5°	631.5	631.5	632.0	631.5	630.4	629.4	628.3	626.6	625.5	624.4	623.9
7.5°	633.7	634.2	634.7	634.2	632.0	630.9	629.4	627.6	625.5	624.4	623.3
10°	637.9	637.9	637.9	637.3	635.8	633.7	631.5	629.8	627.0	624.4	622.7
12.5°	641.2	641.7	641.7	640.8	638.4	635.8	633.7	632.0	629.8	627.6	625.9
15°	646.2	646.2	645.5	643.4	640.1	637.9	636.9	636.3	635.8	634.7	633.0
17.5°	655.9	655.4	653.6	650.5	646.6	645.1	643.9	643.9	643.9	643.4	642.3
20°	670.0	670.0	667.8	662.3	659.0	657.5	655.9	655.9	655.9	654.2	652.6
22.5°	692.8	693.2	690.0	683.5	679.2	675.9	673.6	672.1	670.5	669.3	666.7
25°	723.6	723.0	719.3	711.1	707.9	704.6	700.3	697.5	695.4	693.9	690.5
27.5°	756.2	755.6	751.3	744.2	742.0	737.1	733.8	730.1	727.4	724.8	721.3
30°	797.9	795.1	791.9	786.5	785.4	781.5	777.3	771.9	767.5	763.2	759.3
32.5°	835.2	835.2	830.4	827.7	829.9	828.1	828.7	825.5	822.8	821.1	817.4
35°	887.3	887.3	885.1	881.9	882.5	878.6	878.1	878.6	880.8	880.8	876.4
37.5°	956.7	957.8	950.6	949.6	947.0	941.5	938.8	939.8	944.7	947.4	941.5
40°	1042.8	1045.0	1042.8	1035.7	1032.5	1023.3	1017.9	1017.9	1021.7	1024.3	1022.2
42.5°	1127.9	1131.8	1127.9	1122.5	1119.7	1112.8	1110.0	1112.2	1117.1	1120.4	1117.1
45°	1222.9	1225.5	1220.6	1214.1	1210.8	1207.1	1205.4	1207.1	1212.5	1215.8	1214.7
47.5°	1315.9	1319.8	1313.9	1311.2	1311.2	1307.4	1311.6	1315.9	1320.9	1328.6	1325.2
50°	1407.0	1412.0	1408.2	1408.7	1413.0	1420.1	1428.2	1436.8	1445.6	1453.6	1454.7
52.5°	1488.4	1495.9	1496.4	1506.3	1519.8	1530.6	1553.3	1572.5	1593.0	1600.1	1596.7
55°	1574.0	1584.3	1597.8	1613.0	1634.7	1657.0	1695.5	1729.5	1756.6	1773.4	1770.7
57.5°	1696.4	1706.8	1721.0	1745.9	1778.4	1808.6	1861.3	1914.4	1955.6	1981.1	1968.6
60°	1855.3	1866.1	1884.6	1911.1	1953.5	1994.6	2066.7	2143.1	2207.0	2236.4	2213.7
62.5°	2065.7	2076.0	2087.8	2123.1	2170.2	2223.3	2313.9	2411.9	2493.2	2521.5	2489.6
65°	2365.3	2377.9	2381.6	2410.3	2456.4	2505.7	2603.3	2713.9	2806.6	2852.7	2788.7
67.5°	2703.0	2707.9	2723.1	2756.7	2803.9	2848.3	2925.3	3029.9	3118.7	3144.2	3075.9
70°	2900.8	2910.7	2937.2	2983.8	3040.1	3110.1	3194.2	3306.8	3407.7	3419.6	3332.8
72.5°	2722.0	2742.0	2789.1	2861.8	2979.9	3104.2	3248.9	3415.3	3560.0	3576.8	3437.5
75°	2183.2	2206.0	2262.4	2342.1	2481.8	2666.2	2875.5	3125.3	3342.1	3369.7	3185.4
77.5°	1163.8	1192.0	1273.7	1381.1	1580.5	1824.5	2076.4	2361.6	2545.8	2608.1	2475.4
80°	293.2	308.4	348.0	410.9	545.8	742.5	959.8	1266.7	1495.4	1592.4	1495.4
82.5°	113.8	125.3	136.1	143.5	156.7	183.8	253.7	413.6	557.2	686.1	594.0
85°	43.8	46.6	67.3	76.4	76.4	84.0	96.5	113.8	140.9	153.9	128.9
87.5°	17.3	19.0	23.3	35.8	36.9	32.5	34.7	39.0	29.9	25.0	28.1
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°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
2.5°	623.3	622.7	621.6	622.3	621.6	621.6	621.6	621.6
5°	622.7	622.7	621.6	621.6	621.6	622.3	621.6	621.6
7.5°	622.3	621.6	620.5	620.1	620.1	619.6	619.6	619.6
10°	621.2	620.1	619.0	618.5	618.5	617.3	617.3	617.3
12.5°	623.9	622.3	621.2	620.5	620.5	620.5	621.2	621.2
15°	631.5	628.3	626.6	625.9	626.6	627.6	628.3	628.8
17.5°	639.6	636.3	633.7	632.5	633.0	634.7	636.3	637.3
20°	649.8	647.1	643.9	642.8	642.8	645.1	646.2	647.7
22.5°	664.6	662.3	659.6	658.0	656.9	659.6	661.2	662.3
25°	687.8	685.6	683.5	681.9	681.4	684.0	685.0	685.6
27.5°	718.7	716.6	715.5	715.0	713.3	714.4	715.9	715.5
30°	758.8	760.4	758.8	758.8	756.2	757.2	756.2	755.0
32.5°	812.4	810.9	806.0	802.7	799.0	799.0	797.3	795.7
35°	866.1	860.8	858.1	859.7	858.1	859.0	856.4	853.7
37.5°	929.6	926.3	925.8	930.6	929.6	930.6	930.6	926.8
40°	1013.6	1011.4	1015.3	1023.3	1026.7	1026.0	1027.1	1022.2
42.5°	1110.0	1106.3	1107.9	1114.9	1118.7	1119.7	1119.3	1114.9
45°	1206.6	1207.6	1207.6	1215.1	1219.0	1221.2	1217.4	1215.8
47.5°	1315.5	1317.2	1313.3	1318.3	1319.3	1323.1	1319.8	1317.2
50°	1441.2	1435.2	1426.6	1428.2	1428.2	1427.1	1423.4	1420.1
52.5°	1581.6	1568.0	1551.8	1546.4	1540.5	1534.5	1526.8	1520.9
55°	1741.5	1718.2	1689.0	1675.3	1664.0	1650.5	1633.1	1627.1
57.5°	1926.9	1886.8	1847.8	1823.3	1794.1	1776.2	1754.0	1753.0
60°	2146.9	2092.7	2023.9	1987.6	1958.3	1937.1	1920.3	1913.8
62.5°	2401.1	2307.9	2233.6	2194.6	2160.5	2147.5	2126.4	2129.1
65°	2661.9	2566.9	2495.0	2463.4	2431.5	2422.8	2403.3	2410.3
67.5°	2944.3	2866.2	2787.0	2757.7	2728.5	2719.9	2699.8	2705.8
70°	3197.3	3098.2	3008.2	2950.8	2900.8	2860.7	2835.3	2825.0
72.5°	3247.7	3075.9	2934.5	2790.9	2707.9	2635.3	2605.4	2594.0
75°	2918.2	2651.5	2449.9	2281.3	2188.1	2082.5	2071.0	2055.3
77.5°	2269.9	1966.4	1722.5	1505.6	1380.5	1251.5	1207.1	1173.5
80°	1353.9	1040.6	806.5	565.4	461.3	371.3	349.0	325.7
82.5°	484.5	310.5	209.2	163.1	145.9	134.4	125.8	114.4
85°	117.0	98.6	93.2	84.6	83.5	71.0	50.5	44.9
87.5°	37.4	34.1	34.7	33.1	34.7	26.1	21.1	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)