

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: P198501

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198501
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-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 8972 lumens
Efficiency: N/A
Efficacy: 105.6 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

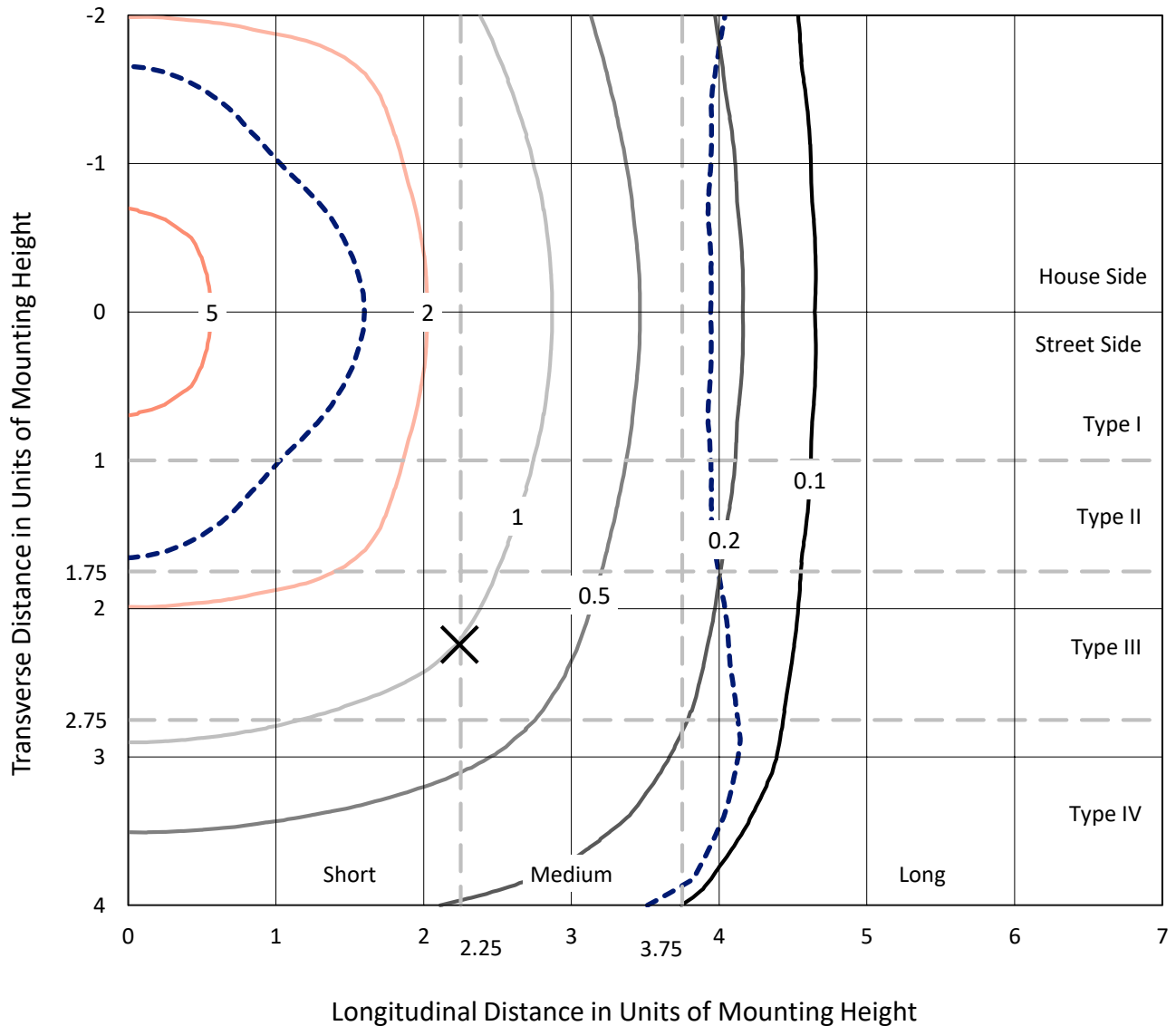
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

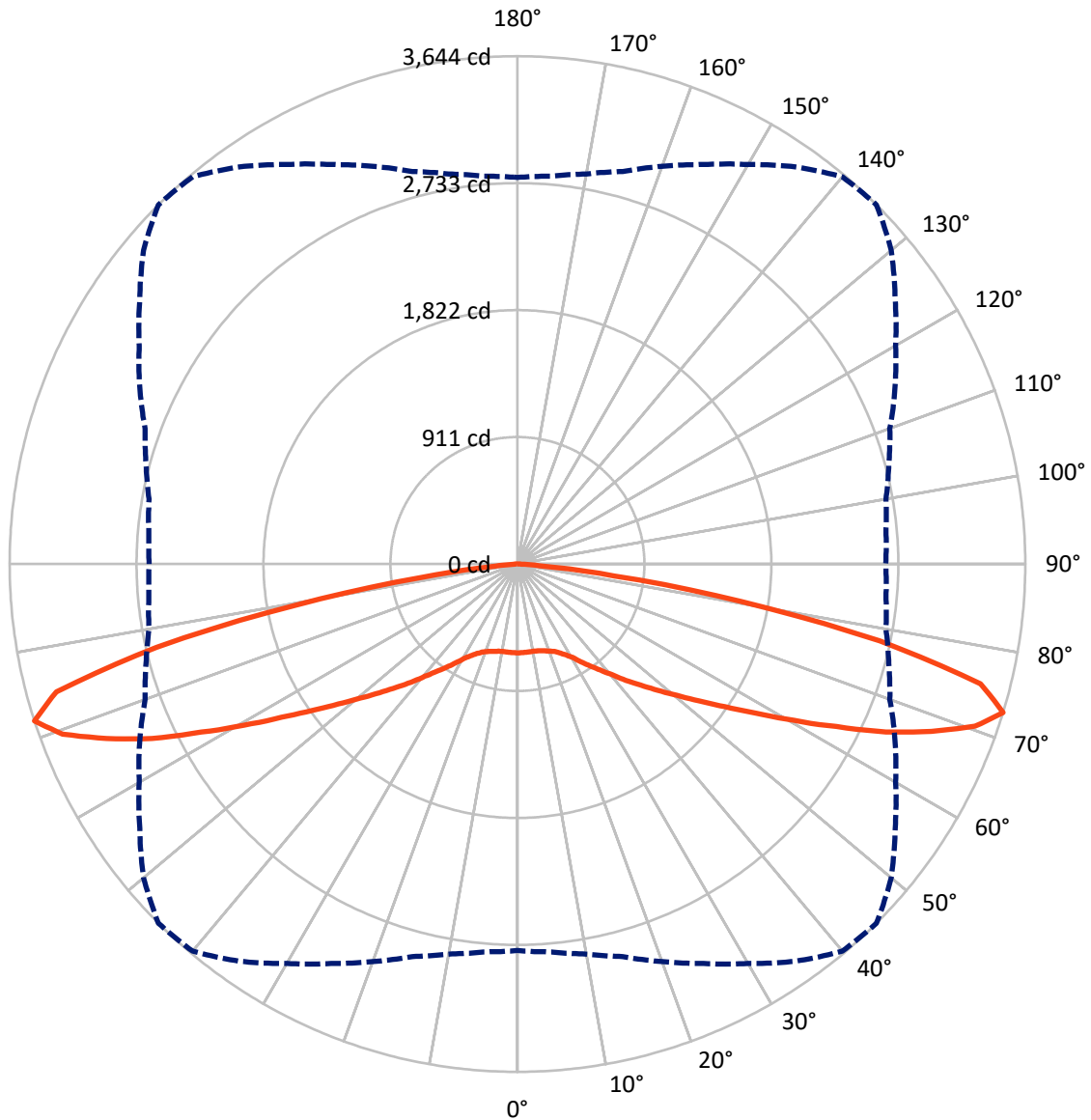


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Semi-Cutoff

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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	4486.0	0.0	4486.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4486.0	0.0	4486.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8972.0	0.0	8972.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	0.7
10°-20°	184.3	2.1
20°-30°	332.6	3.7
30°-40°	567.4	6.3
40°-50°	966.0	10.8
50°-60°	1554.6	17.3
60°-70°	2585.3	28.8
70°-80°	2500.9	27.9
80°-90°	220.1	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°	8972.0	100.0
0°-180°	8972.0	100.0



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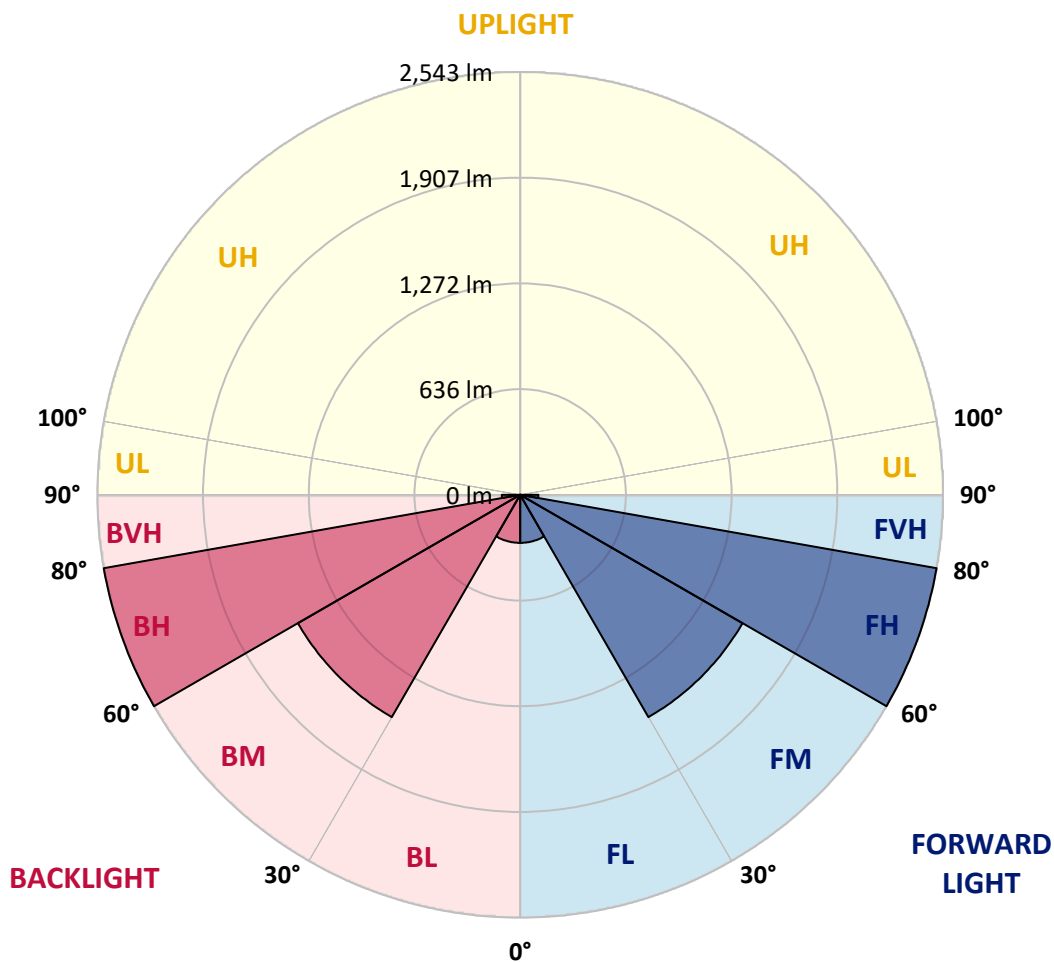
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.9	3.2			
FM	(30°-60°)	1543.9	17.2			
FH	(60°-80°)	2543.1	28.3			G2/5000
FVH	(80°-90°)	110.1	1.2			G2/225
BL	(0°-30°)	288.9	3.2	B1/500		
BM	(30°-60°)	1543.9	17.2	B2/2500		
BH	(60°-80°)	2543.1	28.3	B4/5000		G2/5000
BVH	(80°-90°)	110.1	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°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	642.8	642.8	643.4	642.8	641.7	641.2	639.5	638.4	637.3	636.7	635.6
5°	643.4	643.4	643.9	643.4	642.3	641.2	640.1	638.4	637.3	636.2	635.6
7.5°	645.6	646.1	646.7	646.1	643.9	642.8	641.2	639.5	637.3	636.2	635.1
10°	650.0	650.0	650.0	649.4	647.8	645.6	643.4	641.7	638.9	636.2	634.5
12.5°	653.3	653.9	653.9	652.8	650.5	647.8	645.6	643.9	641.7	639.5	637.8
15°	658.3	658.3	657.7	655.5	652.2	650.0	648.9	648.3	647.8	646.7	645.0
17.5°	668.2	667.7	666.0	662.7	658.8	657.2	656.1	656.1	656.1	655.5	654.4
20°	682.6	682.6	680.4	674.8	671.5	669.9	668.2	668.2	668.2	666.6	664.9
22.5°	705.8	706.3	703.0	696.4	692.0	688.6	686.4	684.8	683.1	682.0	679.3
25°	737.2	736.7	732.8	724.5	721.2	717.9	713.5	710.7	708.5	706.9	703.6
27.5°	770.4	769.8	765.4	758.2	756.0	751.1	747.7	743.9	741.1	738.4	735.0
30°	812.9	810.1	806.8	801.3	800.2	796.3	791.9	786.4	782.0	777.6	773.7
32.5°	851.0	851.0	846.0	843.3	845.5	843.8	844.4	841.1	838.3	836.6	832.8
35°	904.0	904.0	901.8	898.5	899.1	895.2	894.6	895.2	897.4	897.4	893.0
37.5°	974.7	975.8	968.6	967.5	964.8	959.2	956.5	957.6	962.6	965.3	959.2
40°	1062.5	1064.7	1062.5	1055.3	1052.0	1042.6	1037.1	1037.1	1041.0	1043.7	1041.5
42.5°	1149.2	1153.1	1149.2	1143.7	1140.9	1133.8	1131.0	1133.2	1138.2	1141.5	1138.2
45°	1245.9	1248.6	1243.7	1237.0	1233.7	1229.8	1228.2	1229.8	1235.4	1238.7	1237.6
47.5°	1340.8	1344.7	1338.6	1335.9	1335.9	1332.0	1336.4	1340.8	1345.8	1353.6	1350.2
50°	1433.6	1438.6	1434.7	1435.3	1439.7	1446.9	1455.2	1464.0	1472.8	1481.1	1482.2
52.5°	1516.5	1524.2	1524.7	1534.7	1548.5	1559.5	1582.7	1602.1	1623.0	1630.2	1626.9
55°	1603.7	1614.2	1628.0	1643.5	1665.6	1688.2	1727.4	1762.2	1789.8	1806.9	1804.2
57.5°	1728.5	1739.0	1753.4	1778.8	1811.9	1842.8	1896.4	1950.5	1992.5	2018.5	2005.8
60°	1890.3	1901.4	1920.2	1947.2	1990.3	2032.3	2105.7	2183.6	2248.7	2278.6	2255.4
62.5°	2104.6	2115.1	2127.2	2163.1	2211.2	2265.3	2357.5	2457.5	2540.3	2569.0	2536.5
65°	2410.0	2422.7	2426.6	2455.8	2502.8	2553.0	2652.4	2765.1	2859.5	2906.5	2841.3
67.5°	2754.0	2759.0	2774.5	2808.7	2856.8	2902.0	2980.5	3087.0	3177.6	3203.6	3134.0
70°	2955.6	2965.6	2992.6	3040.1	3097.5	3168.8	3254.4	3369.2	3472.0	3484.1	3395.7
72.5°	2773.4	2793.8	2841.8	2915.8	3036.2	3162.7	3310.2	3479.7	3627.1	3644.3	3502.3
75°	2224.4	2247.6	2305.1	2386.2	2528.7	2716.5	2929.7	3184.2	3405.1	3433.3	3245.5
77.5°	1185.7	1214.4	1297.8	1407.1	1610.3	1858.9	2115.6	2406.1	2593.9	2657.4	2522.1
80°	298.8	314.2	354.5	418.6	556.1	756.6	978.0	1290.6	1523.6	1622.5	1523.6
82.5°	116.0	127.6	138.6	146.3	159.6	187.2	258.5	421.4	567.7	699.1	605.3
85°	44.7	47.5	68.5	77.9	77.9	85.6	98.3	116.0	143.6	156.8	131.4
87.5°	17.7	19.3	23.7	36.4	37.6	33.1	35.3	39.8	30.4	25.4	28.7
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°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	635.1	634.5	633.4	634.0	633.4	633.4	633.4	633.4
5°	634.5	634.5	633.4	633.4	633.4	634.0	633.4	633.4
7.5°	634.0	633.4	632.3	631.8	631.8	631.2	631.2	631.2
10°	632.9	631.8	630.7	630.1	630.1	629.0	629.0	629.0
12.5°	635.6	634.0	632.9	632.3	632.3	632.3	632.9	632.9
15°	643.4	640.1	638.4	637.8	638.4	639.5	640.1	640.6
17.5°	651.6	648.3	645.6	644.5	645.0	646.7	648.3	649.4
20°	662.1	659.4	656.1	655.0	655.0	657.2	658.3	659.9
22.5°	677.1	674.8	672.1	670.4	669.3	672.1	673.7	674.8
25°	700.8	698.6	696.4	694.7	694.2	696.9	698.0	698.6
27.5°	732.3	730.1	729.0	728.4	726.8	727.9	729.5	729.0
30°	773.1	774.8	773.1	773.1	770.4	771.5	770.4	769.3
32.5°	827.8	826.2	821.2	817.9	814.0	814.0	812.4	810.7
35°	882.5	877.0	874.2	875.9	874.2	875.3	872.5	869.8
37.5°	947.1	943.8	943.2	948.2	947.1	948.2	948.2	944.3
40°	1032.7	1030.5	1034.4	1042.6	1046.0	1045.4	1046.5	1041.5
42.5°	1131.0	1127.1	1128.8	1136.0	1139.8	1140.9	1140.4	1136.0
45°	1229.3	1230.4	1230.4	1238.1	1242.0	1244.2	1240.3	1238.7
47.5°	1340.3	1342.0	1338.1	1343.1	1344.2	1348.0	1344.7	1342.0
50°	1468.4	1462.3	1453.5	1455.2	1455.2	1454.1	1450.2	1446.9
52.5°	1611.4	1597.6	1581.1	1575.6	1569.5	1563.4	1555.7	1549.6
55°	1774.4	1750.6	1720.8	1707.0	1695.4	1681.6	1663.9	1657.8
57.5°	1963.2	1922.4	1882.6	1857.7	1827.9	1809.7	1787.1	1786.0
60°	2187.4	2132.2	2062.1	2025.1	1995.3	1973.7	1956.6	1950.0
62.5°	2446.4	2351.5	2275.8	2236.0	2201.2	2188.0	2166.5	2169.2
65°	2712.1	2615.4	2542.0	2509.9	2477.4	2468.5	2448.7	2455.8
67.5°	2999.8	2920.3	2839.6	2809.8	2780.0	2771.2	2750.7	2756.8
70°	3257.7	3156.6	3065.0	3006.4	2955.6	2914.7	2888.8	2878.3
72.5°	3309.0	3134.0	2989.8	2843.5	2759.0	2685.0	2654.6	2643.0
75°	2973.3	2701.6	2496.1	2324.4	2229.4	2121.7	2110.1	2094.1
77.5°	2312.8	2003.5	1755.0	1534.1	1406.6	1275.1	1229.8	1195.6
80°	1379.5	1060.3	821.7	576.0	470.0	378.3	355.6	331.9
82.5°	493.7	316.4	213.2	166.2	148.6	137.0	128.1	116.5
85°	119.3	100.5	95.0	86.2	85.0	72.3	51.4	45.8
87.5°	38.1	34.8	35.3	33.7	35.3	26.5	21.5	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)