

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: P199145

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199145  
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-8030-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11230 lumens  
Efficiency: N/A  
Efficacy: 87.7 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): 128  
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

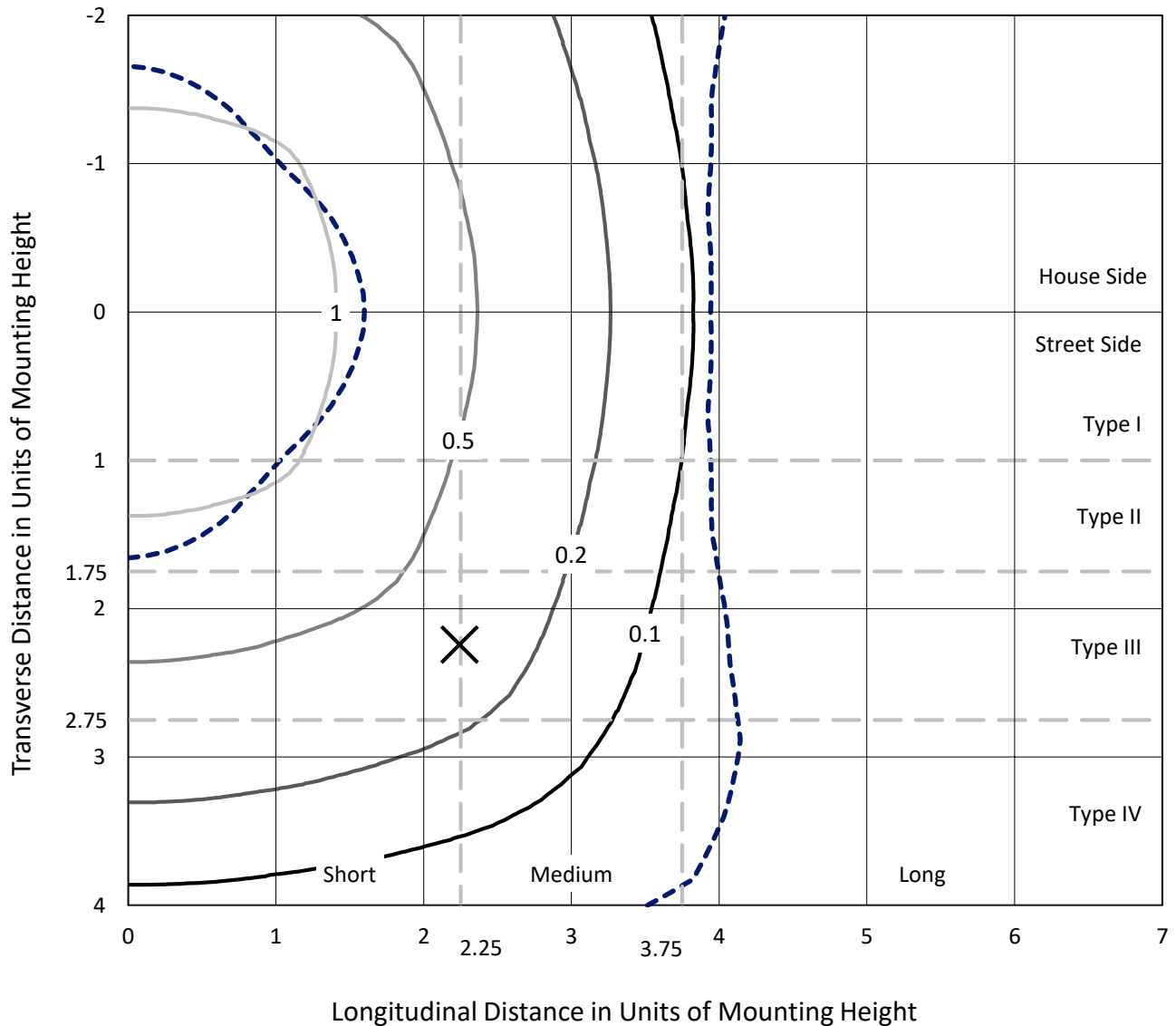


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

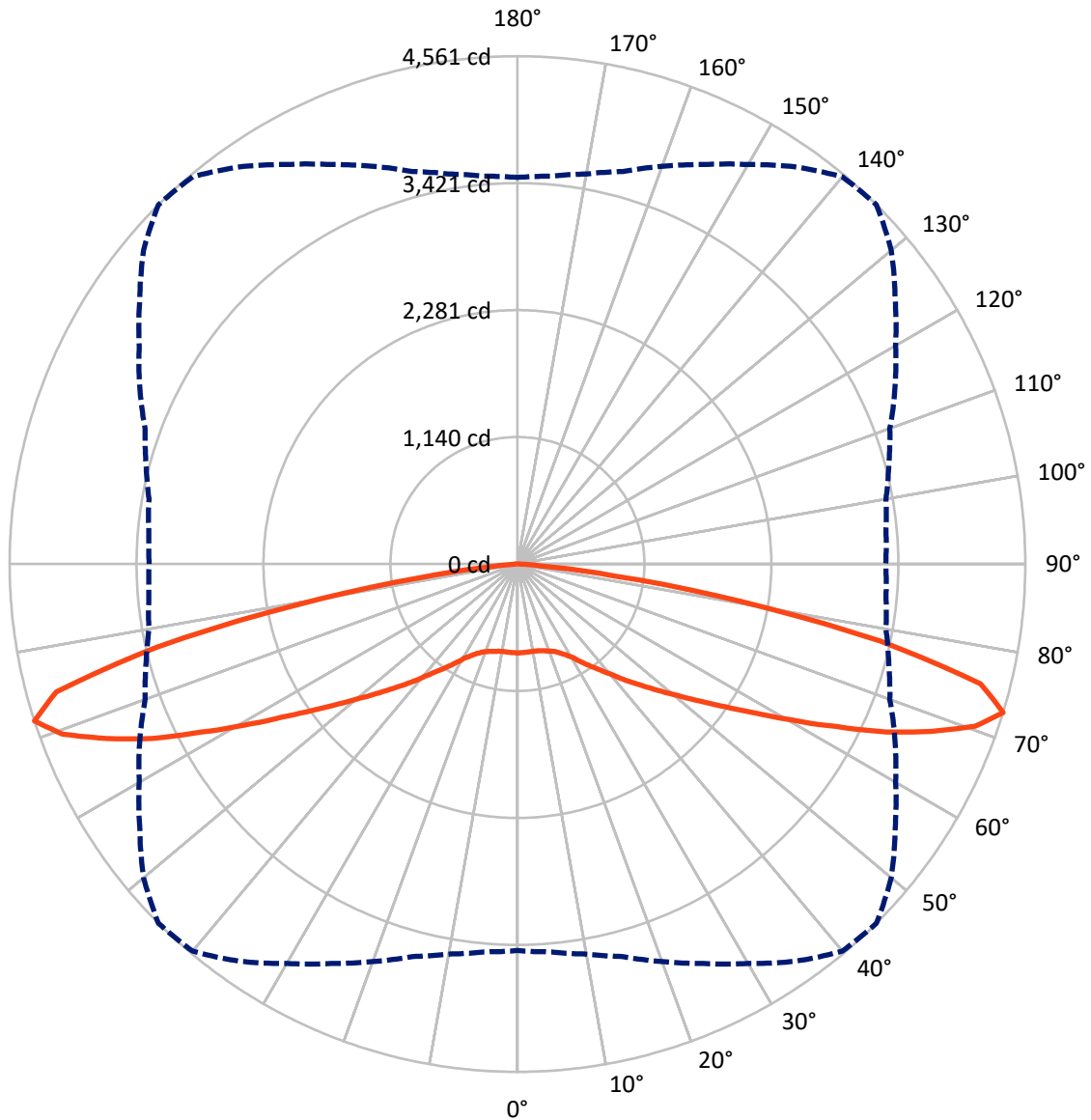


Based on 20 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	5615.0	0.0	5615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5615.0	0.0	5615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11230.0	0.0	11230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	0.7
10°-20°	230.6	2.1
20°-30°	416.3	3.7
30°-40°	710.2	6.3
40°-50°	1209.1	10.8
50°-60°	1945.8	17.3
60°-70°	3235.9	28.8
70°-80°	3130.4	27.9
80°-90°	275.5	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°	11230.0	100.0
0°-180°	11230.0	100.0

**Coefficient of Utilization**



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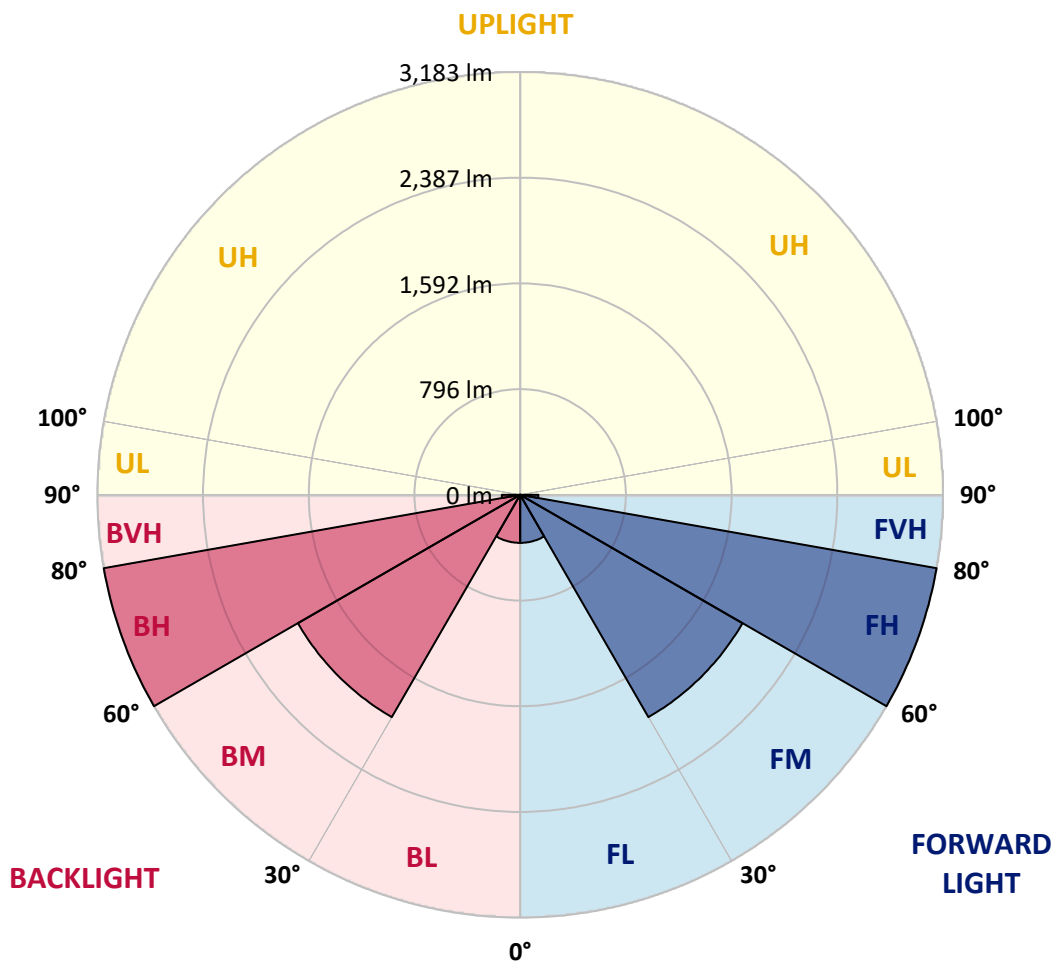
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.6	3.2			
FM (30°-60°)	1932.5	17.2			
FH (60°-80°)	3183.2	28.3			G2/5000
FVH (80°-90°)	137.8	1.2			G2/225
BL (0°-30°)	361.6	3.2	B1/500		
BM (30°-60°)	1932.5	17.2	B2/2500		
BH (60°-80°)	3183.2	28.3	B4/5000		G2/5000
BVH (80°-90°)	137.8	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°	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4
2.5°	804.6	804.6	805.3	804.6	803.2	802.5	800.4	799.1	797.7	797.0	795.6
5°	805.3	805.3	806.0	805.3	803.9	802.5	801.1	799.1	797.7	796.3	795.6
7.5°	808.0	808.7	809.4	808.7	806.0	804.6	802.5	800.4	797.7	796.3	794.9
10°	813.6	813.6	813.6	812.9	810.8	808.0	805.3	803.2	799.8	796.3	794.2
12.5°	817.7	818.4	818.4	817.0	814.3	810.8	808.0	806.0	803.2	800.4	798.4
15°	823.9	823.9	823.3	820.5	816.3	813.6	812.2	811.5	810.8	809.4	807.4
17.5°	836.4	835.7	833.6	829.5	824.6	822.6	821.2	821.2	821.2	820.5	819.1
20°	854.4	854.4	851.6	844.7	840.5	838.5	836.4	836.4	836.4	834.3	832.2
22.5°	883.4	884.1	879.9	871.6	866.1	862.0	859.2	857.1	855.0	853.7	850.2
25°	922.8	922.1	917.3	906.9	902.7	898.6	893.1	889.6	886.8	884.8	880.6
27.5°	964.3	963.6	958.0	949.1	946.3	940.1	935.9	931.1	927.6	924.2	920.0
30°	1017.5	1014.0	1009.9	1003.0	1001.6	996.8	991.2	984.3	978.8	973.2	968.4
32.5°	1065.2	1065.2	1059.0	1055.5	1058.3	1056.2	1056.9	1052.7	1049.3	1047.2	1042.4
35°	1131.5	1131.5	1128.8	1124.6	1125.3	1120.5	1119.8	1120.5	1123.2	1123.2	1117.7
37.5°	1220.0	1221.4	1212.4	1211.0	1207.6	1200.7	1197.2	1198.6	1204.8	1208.3	1200.7
40°	1329.9	1332.7	1329.9	1320.9	1316.8	1305.0	1298.1	1298.1	1303.0	1306.4	1303.7
42.5°	1438.4	1443.3	1438.4	1431.5	1428.1	1419.1	1415.6	1418.4	1424.6	1428.8	1424.6
45°	1559.4	1562.9	1556.6	1548.4	1544.2	1539.4	1537.3	1539.4	1546.3	1550.4	1549.0
47.5°	1678.3	1683.1	1675.5	1672.1	1672.1	1667.2	1672.8	1678.3	1684.5	1694.2	1690.1
50°	1794.4	1800.6	1795.8	1796.5	1802.0	1811.0	1821.4	1832.4	1843.5	1853.9	1855.3
52.5°	1898.1	1907.8	1908.5	1920.9	1938.2	1952.0	1981.1	2005.3	2031.5	2040.5	2036.4
55°	2007.3	2020.5	2037.7	2057.1	2084.7	2113.1	2162.2	2205.7	2240.3	2261.7	2258.2
57.5°	2163.5	2176.7	2194.6	2226.4	2267.9	2306.6	2373.7	2441.4	2494.0	2526.4	2510.5
60°	2366.1	2379.9	2403.4	2437.3	2491.2	2543.7	2635.7	2733.1	2814.7	2852.0	2823.0
62.5°	2634.3	2647.4	2662.6	2707.5	2767.7	2835.4	2950.9	3076.0	3179.7	3215.6	3174.8
65°	3016.5	3032.4	3037.3	3073.9	3132.6	3195.5	3320.0	3461.0	3579.2	3637.9	3556.4
67.5°	3447.2	3453.4	3472.7	3515.6	3575.7	3632.4	3730.6	3864.0	3977.3	4009.8	3922.7
70°	3699.5	3711.9	3745.8	3805.2	3877.1	3966.3	4073.4	4217.2	4345.8	4361.0	4250.4
72.5°	3471.3	3496.9	3557.1	3649.7	3800.4	3958.7	4143.2	4355.4	4540.0	4561.4	4383.8
75°	2784.3	2813.3	2885.2	2986.8	3165.1	3400.2	3667.0	3985.6	4262.1	4297.4	4062.3
77.5°	1484.1	1520.0	1624.4	1761.2	2015.6	2326.7	2648.1	3011.7	3246.7	3326.2	3156.8
80°	374.0	393.3	443.8	524.0	696.1	947.0	1224.2	1615.4	1907.1	2030.8	1907.1
82.5°	145.2	159.7	173.5	183.2	199.8	234.3	323.5	527.4	710.6	875.1	757.6
85°	56.0	59.4	85.7	97.5	97.5	107.1	123.0	145.2	179.7	196.3	164.5
87.5°	22.1	24.2	29.7	45.6	47.0	41.5	44.2	49.8	38.0	31.8	35.9
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°	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4
2.5°	794.9	794.2	792.8	793.5	792.8	792.8	792.8	792.8
5°	794.2	794.2	792.8	792.8	792.8	793.5	792.8	792.8
7.5°	793.5	792.8	791.5	790.8	790.8	790.1	790.1	790.1
10°	792.1	790.8	789.4	788.7	788.7	787.3	787.3	787.3
12.5°	795.6	793.5	792.1	791.5	791.5	791.5	792.1	792.1
15°	805.3	801.1	799.1	798.4	799.1	800.4	801.1	801.8
17.5°	815.6	811.5	808.0	806.7	807.4	809.4	811.5	812.9
20°	828.8	825.3	821.2	819.8	819.8	822.6	823.9	826.0
22.5°	847.4	844.7	841.2	839.2	837.8	841.2	843.3	844.7
25°	877.2	874.4	871.6	869.6	868.9	872.3	873.7	874.4
27.5°	916.6	913.8	912.4	911.7	909.7	911.0	913.1	912.4
30°	967.7	969.8	967.7	967.7	964.3	965.6	964.3	962.9
32.5°	1036.2	1034.1	1027.9	1023.7	1018.9	1018.9	1016.8	1014.7
35°	1104.6	1097.7	1094.2	1096.3	1094.2	1095.6	1092.1	1088.7
37.5°	1185.5	1181.3	1180.6	1186.8	1185.5	1186.8	1186.8	1182.0
40°	1292.6	1289.8	1294.7	1305.0	1309.2	1308.5	1309.9	1303.7
42.5°	1415.6	1410.8	1412.9	1421.9	1426.7	1428.1	1427.4	1421.9
45°	1538.7	1540.1	1540.1	1549.7	1554.6	1557.3	1552.5	1550.4
47.5°	1677.6	1679.7	1674.8	1681.1	1682.4	1687.3	1683.1	1679.7
50°	1838.0	1830.4	1819.3	1821.4	1821.4	1820.0	1815.2	1811.0
52.5°	2017.0	1999.7	1979.0	1972.1	1964.5	1956.9	1947.2	1939.6
55°	2220.9	2191.2	2153.9	2136.6	2122.1	2104.8	2082.7	2075.1
57.5°	2457.3	2406.2	2356.4	2325.3	2288.0	2265.2	2236.8	2235.4
60°	2738.0	2668.8	2581.0	2534.7	2497.4	2470.4	2449.0	2440.7
62.5°	3062.1	2943.3	2848.6	2798.8	2755.2	2738.6	2711.7	2715.1
65°	3394.6	3273.7	3181.7	3141.6	3100.9	3089.8	3064.9	3073.9
67.5°	3754.8	3655.2	3554.3	3517.0	3479.6	3468.6	3443.0	3450.6
70°	4077.6	3951.1	3836.3	3763.0	3699.5	3648.3	3615.8	3602.7
72.5°	4141.8	3922.7	3742.3	3559.1	3453.4	3360.8	3322.7	3308.2
75°	3721.6	3381.5	3124.4	2909.4	2790.5	2655.7	2641.2	2621.1
77.5°	2894.9	2507.8	2196.7	1920.2	1760.6	1596.0	1539.4	1496.5
80°	1726.7	1327.2	1028.5	721.0	588.2	473.5	445.2	415.4
82.5°	618.0	396.1	266.8	208.1	185.9	171.4	160.4	145.8
85°	149.3	125.8	118.9	107.8	106.4	90.6	64.3	57.4
87.5°	47.7	43.5	44.2	42.2	44.2	33.2	27.0	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)