

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: P198483

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)
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-5MQ-7030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7491 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

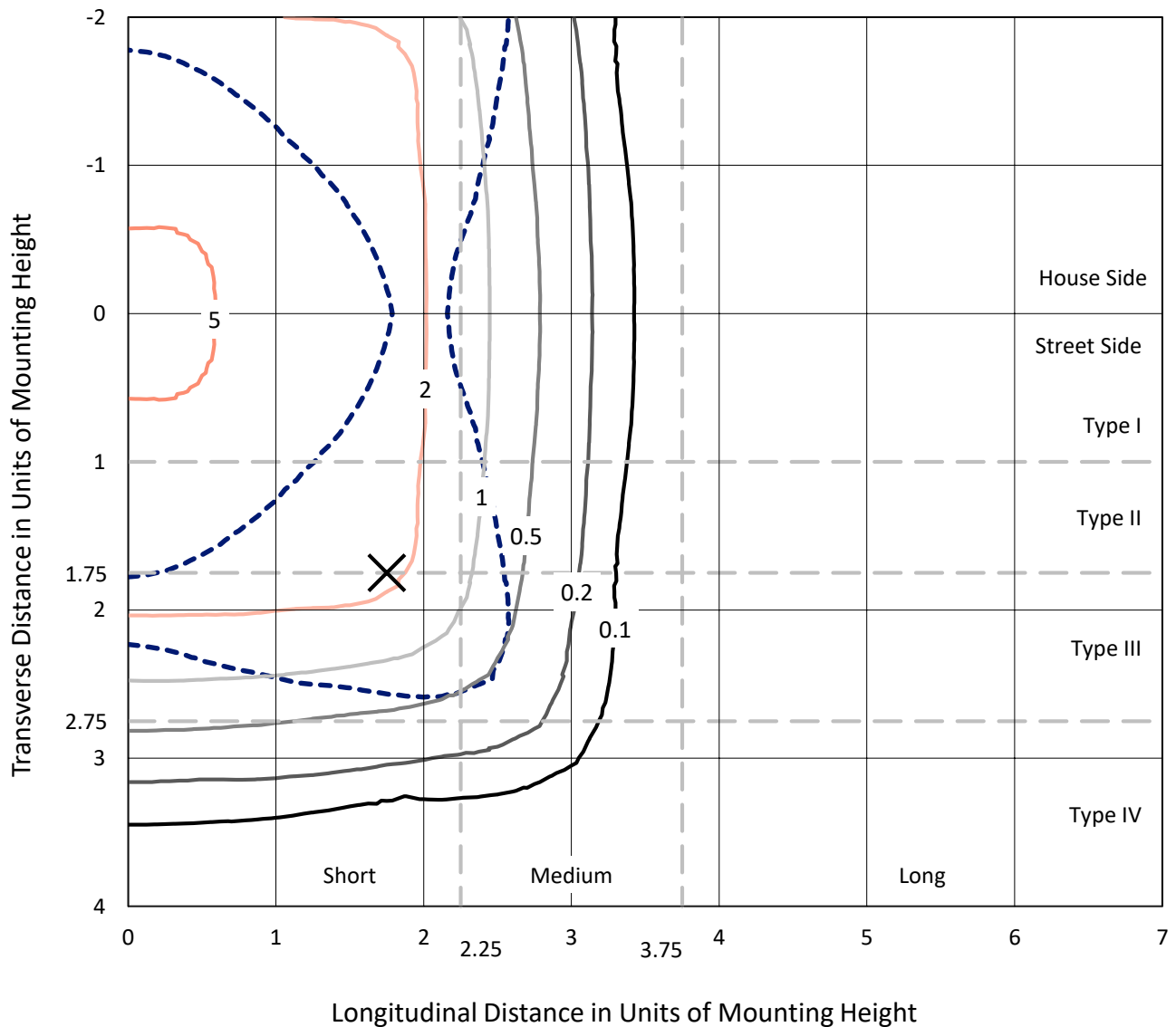
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

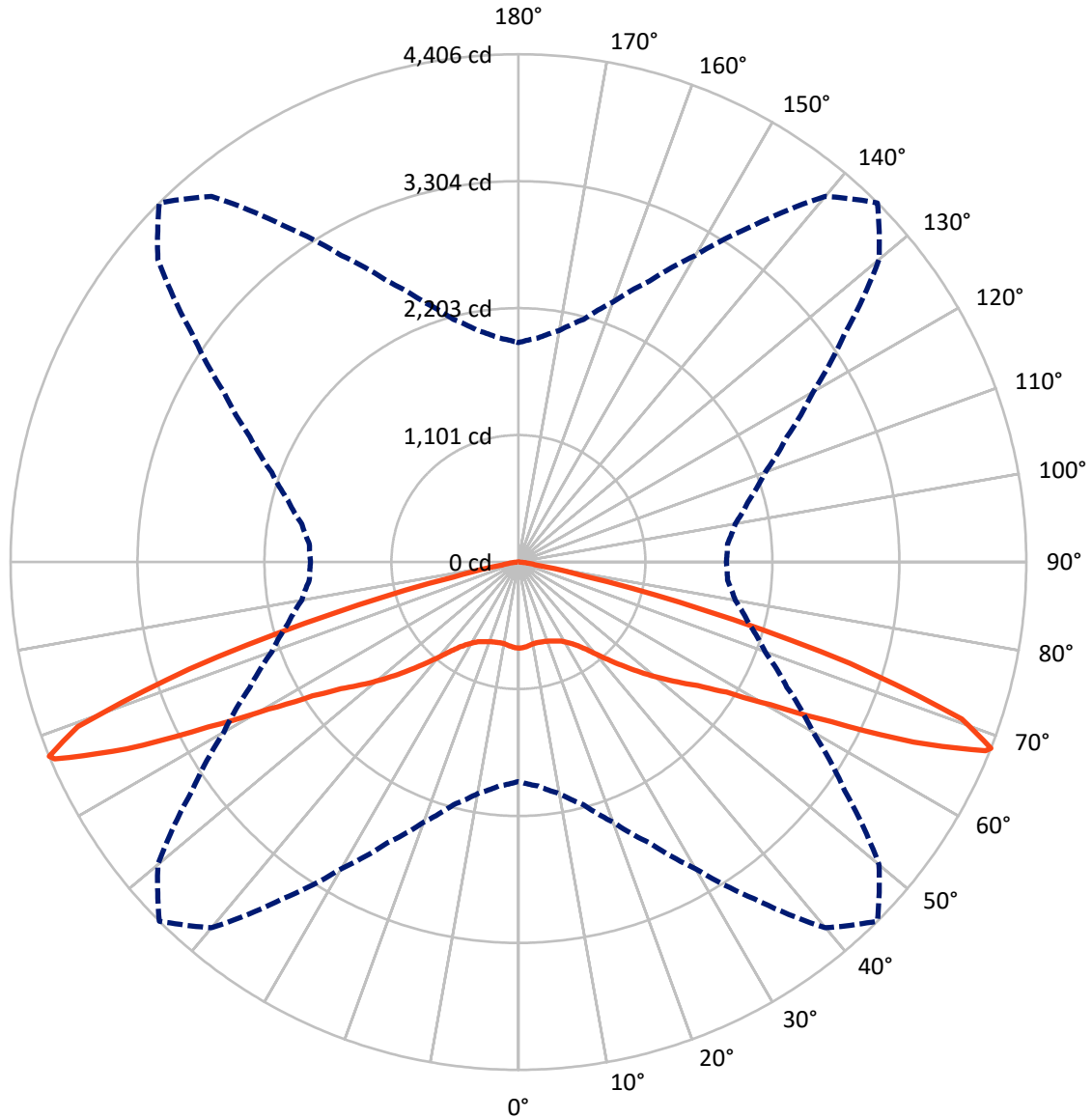


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3745.5	0.0	3745.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3745.5	0.0	3745.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7491.0	0.0	7491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	0.9
10°-20°	202.8	2.7
20°-30°	344.8	4.6
30°-40°	564.2	7.5
40°-50°	1008.3	13.5
50°-60°	1702.8	22.7
60°-70°	2640.5	35.2
70°-80°	907.9	12.1
80°-90°	49.9	0.7
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°	7491.0	100.0
0°-180°	7491.0	100.0



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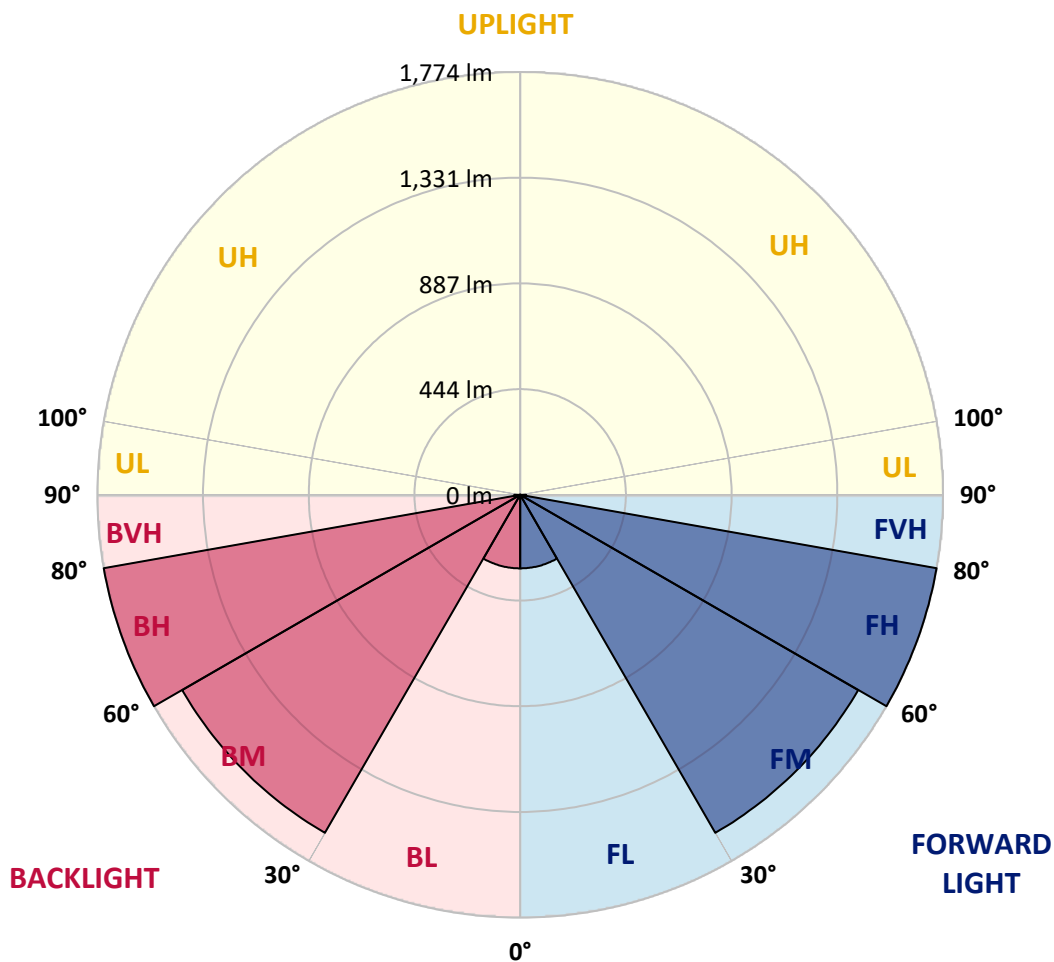
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	4.1			
FM (30°-60°)	1637.7	21.9			
FH (60°-80°)	1774.2	23.7			G1/1800
FVH (80°-90°)	24.9	0.3			G1/100
BL (0°-30°)	308.7	4.1	B1/500		
BM (30°-60°)	1637.7	21.9	B2/2500		
BH (60°-80°)	1774.2	23.7	B3/2500		G1/1800
BVH (80°-90°)	24.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	750.5	750.5	751.4	750.9	749.5	748.2	746.8	745.4	744.5	743.6	742.7
5°	742.7	742.7	744.0	743.1	742.2	740.8	739.9	738.5	737.6	736.7	737.2
7.5°	732.6	733.5	734.4	733.9	732.1	731.7	730.3	729.8	728.9	727.5	728.0
10°	723.9	724.3	725.2	724.8	724.3	722.9	722.5	722.0	721.6	719.7	719.3
12.5°	715.1	716.1	717.0	717.4	717.0	717.4	717.9	718.4	717.9	717.0	717.0
15°	708.3	709.2	710.6	711.9	712.4	715.1	717.0	718.8	720.2	720.6	719.3
17.5°	704.6	706.0	707.8	710.6	712.8	716.1	719.3	722.0	724.3	724.8	723.4
20°	704.1	705.5	708.3	711.5	715.6	719.7	724.8	728.9	731.2	732.6	731.2
22.5°	707.3	709.2	712.8	717.0	722.0	727.5	733.9	738.5	743.1	745.0	743.6
25°	716.5	718.4	722.5	727.5	733.0	739.9	746.3	752.3	756.9	759.2	757.3
27.5°	735.8	736.2	740.8	746.3	752.8	758.7	767.0	769.7	773.4	775.7	773.4
30°	762.8	763.8	767.9	776.6	782.6	790.4	795.0	797.7	801.8	804.1	801.4
32.5°	804.1	805.0	808.7	817.0	822.5	828.4	833.9	835.8	839.9	842.7	839.5
35°	862.4	864.2	867.4	872.9	877.5	882.1	886.2	884.9	887.6	891.3	888.1
37.5°	942.2	941.7	942.7	946.8	951.4	954.1	960.6	957.3	960.1	963.3	961.5
40°	1035.3	1035.3	1034.9	1042.2	1044.0	1046.8	1053.7	1049.5	1053.2	1056.9	1053.7
42.5°	1141.3	1143.1	1145.4	1151.4	1156.4	1157.3	1160.6	1158.7	1163.3	1166.5	1163.3
45°	1263.3	1266.1	1268.8	1282.6	1284.9	1286.7	1289.0	1283.0	1288.1	1290.8	1289.9
47.5°	1389.9	1395.0	1400.9	1415.1	1424.3	1428.4	1430.3	1423.4	1423.9	1428.0	1428.4
50°	1533.0	1538.5	1544.5	1560.6	1569.3	1576.6	1578.9	1571.1	1572.0	1575.2	1576.2
52.5°	1665.1	1671.6	1684.4	1706.0	1718.4	1731.2	1732.1	1722.5	1726.6	1728.9	1727.1
55°	1789.5	1797.7	1814.7	1843.6	1866.1	1891.3	1902.8	1892.2	1892.2	1890.4	1889.5
57.5°	1934.4	1943.6	1961.0	1994.5	2025.7	2061.9	2093.1	2103.7	2122.9	2129.4	2119.3
60°	2152.8	2162.4	2180.3	2224.3	2263.8	2316.5	2367.9	2409.6	2477.5	2514.2	2481.2
62.5°	2352.3	2367.0	2409.2	2486.2	2571.6	2669.3	2782.6	2863.3	2986.7	3048.2	2965.1
65°	2306.9	2336.7	2419.3	2540.4	2716.5	2928.4	3159.2	3380.7	3635.8	3766.5	3597.7
67.5°	2015.1	2040.4	2129.4	2270.2	2489.9	2782.1	3140.8	3599.6	4125.7	4370.7	4072.0
68°	1903.7	1950.9	2039.5	2179.4	2400.9	2688.1	3071.1	3566.5	4140.8	4405.5	4083.0
70°	1459.6	1476.6	1561.5	1687.2	1926.2	2207.8	2594.5	3159.2	3808.3	4080.7	3749.1
72.5°	693.6	703.7	758.7	882.6	1034.4	1263.8	1605.0	2137.6	2722.5	3006.0	2675.2
75°	254.1	256.4	269.3	298.6	355.5	441.7	605.5	936.7	1386.7	1653.7	1392.2
77.5°	137.2	137.6	142.7	150.0	160.1	171.6	196.3	263.3	424.8	578.0	448.6
80°	86.2	85.8	90.8	96.8	103.7	109.2	111.5	119.3	134.4	157.3	144.5
82.5°	44.0	48.2	59.6	66.1	76.1	78.0	75.7	75.2	79.8	86.2	89.0
85°	24.3	21.6	31.7	42.2	45.9	47.2	47.7	45.0	44.0	43.1	45.4
87.5°	12.4	11.5	13.8	21.1	22.5	18.3	18.8	16.1	11.0	11.0	11.5
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°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	741.7	742.2	741.3	741.3	741.3	741.7	741.3	740.8
5°	735.8	736.7	736.7	737.2	737.6	737.6	737.6	737.6
7.5°	727.1	727.5	728.4	728.4	728.4	728.4	728.4	728.4
10°	718.8	717.9	717.4	716.5	716.5	715.1	715.6	716.1
12.5°	714.7	712.8	711.9	710.6	709.6	708.3	708.3	708.7
15°	716.5	713.8	711.0	710.1	709.2	708.3	707.3	707.8
17.5°	720.2	717.0	713.8	711.9	710.1	708.7	708.3	708.7
20°	728.0	723.4	718.4	715.1	711.5	710.6	709.2	710.6
22.5°	738.5	733.0	726.6	720.6	716.5	714.7	712.8	714.2
25°	751.4	745.4	739.0	732.1	727.5	726.1	723.9	723.9
27.5°	769.3	764.2	758.7	752.3	747.7	746.3	742.7	742.7
30°	797.7	792.7	787.6	782.1	777.5	776.1	771.6	771.6
32.5°	835.3	829.8	826.6	822.0	818.4	816.1	810.6	810.1
35°	885.8	880.7	880.3	877.1	873.4	873.9	868.4	867.4
37.5°	958.3	954.1	955.5	952.8	949.5	952.3	949.1	949.1
40°	1050.9	1049.5	1050.9	1049.1	1049.5	1050.0	1047.3	1048.2
42.5°	1162.8	1159.2	1167.4	1166.5	1165.1	1168.8	1162.4	1157.8
45°	1291.7	1290.4	1298.6	1300.0	1297.3	1299.5	1288.1	1287.6
47.5°	1431.7	1431.7	1439.0	1438.1	1435.3	1435.8	1422.0	1413.3
50°	1577.5	1576.6	1583.9	1582.1	1578.4	1578.0	1563.8	1555.0
52.5°	1729.4	1729.4	1739.9	1734.9	1726.2	1722.0	1704.6	1693.1
55°	1897.3	1895.0	1898.2	1881.7	1864.7	1852.3	1830.7	1822.0
57.5°	2109.6	2083.0	2060.1	2039.0	2015.1	2000.5	1975.2	1966.1
60°	2411.0	2339.9	2309.2	2267.0	2227.5	2207.8	2174.3	2156.4
62.5°	2828.4	2710.6	2627.1	2534.0	2444.0	2380.7	2329.8	2307.3
65°	3311.0	3054.1	2841.8	2642.2	2472.9	2338.5	2263.8	2240.4
67.5°	3494.5	3022.9	2656.4	2370.2	2164.7	2004.6	1915.1	1896.3
68°	3455.5	2951.4	2570.6	2277.5	2071.1	1909.6	1820.6	1803.7
70°	3048.2	2489.9	2088.1	1796.3	1603.7	1450.0	1387.2	1360.1
72.5°	2078.0	1599.1	1226.6	981.2	837.2	739.9	682.1	662.4
75°	956.4	646.3	431.7	322.5	273.9	250.5	232.6	228.0
77.5°	278.9	202.8	174.3	161.5	151.8	143.6	137.6	137.2
80°	132.6	124.3	120.6	112.4	103.7	95.9	90.4	91.3
82.5°	89.0	86.7	86.7	78.4	64.7	55.5	45.9	41.3
85°	47.2	49.1	51.8	49.1	42.7	31.7	20.6	22.5
87.5°	16.1	18.3	19.3	18.8	17.0	12.8	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)