

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: P198808

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198808
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: XNV-AF-01-LED-U-5MQ-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7066 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' 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

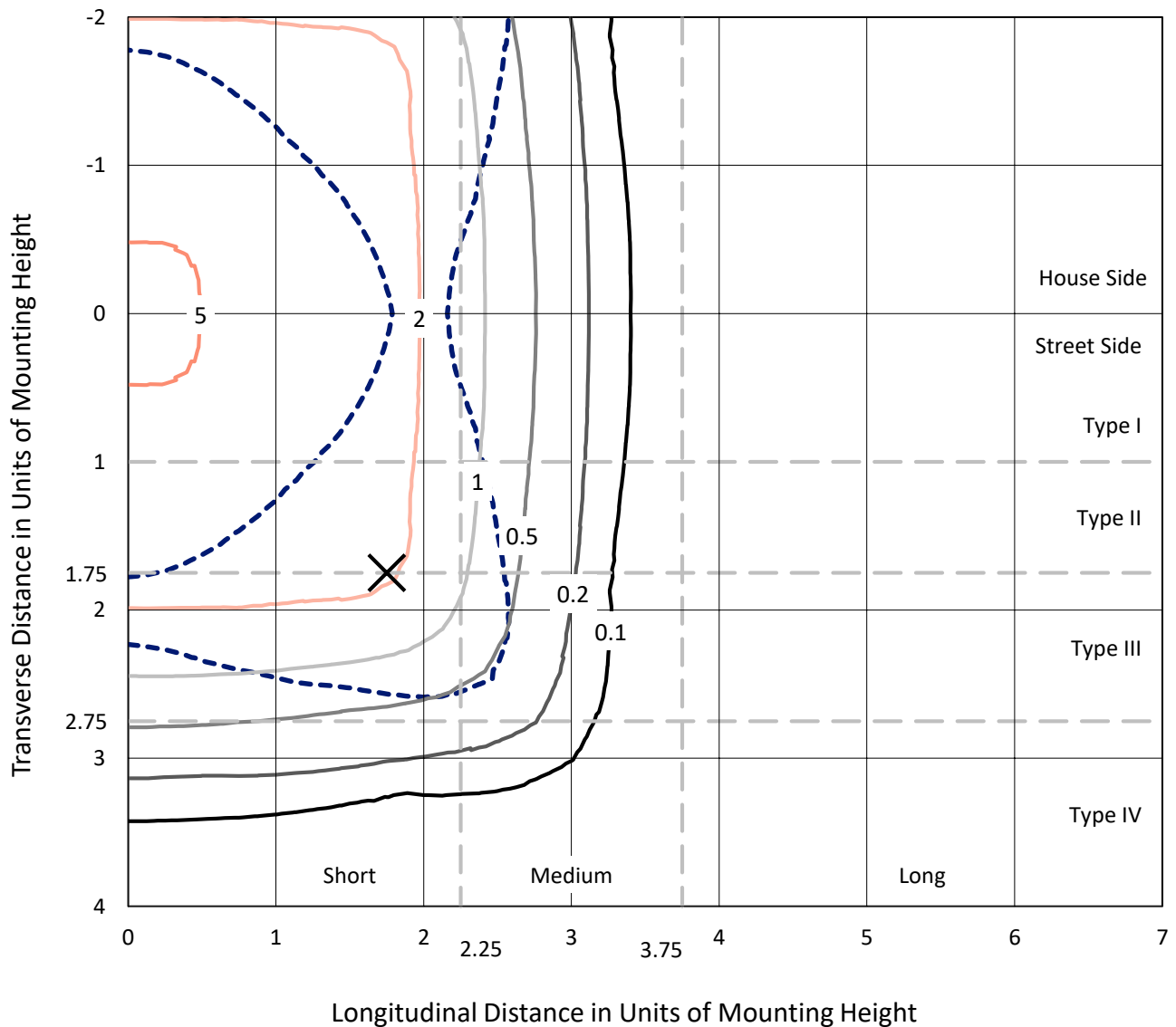


REPORT NUMBER: P198808

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

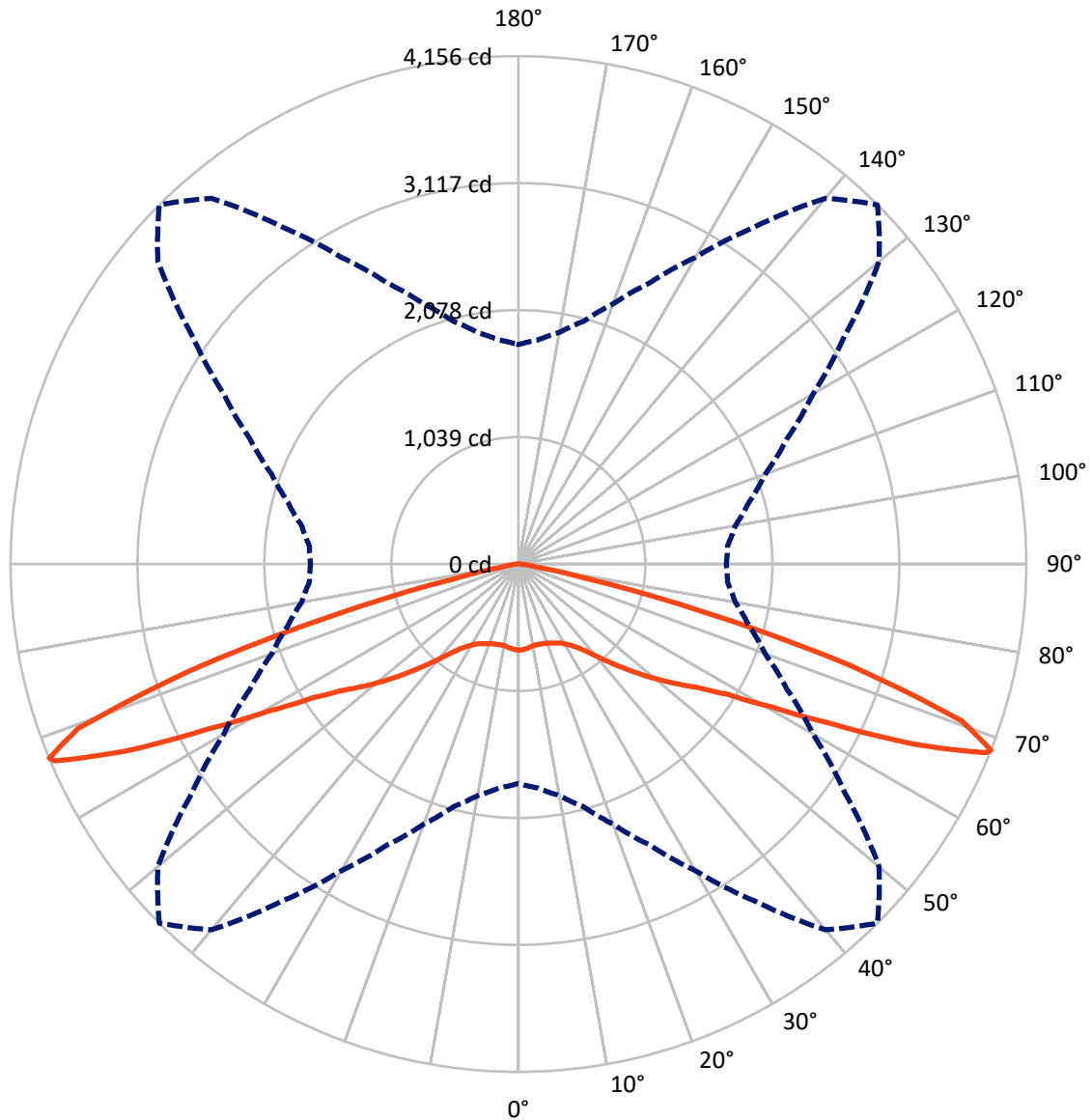
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P198808
CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198808

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.0	0.0	3533.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3533.0	0.0	3533.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7066.0	0.0	7066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	0.9
10°-20°	191.3	2.7
20°-30°	325.2	4.6
30°-40°	532.2	7.5
40°-50°	951.1	13.5
50°-60°	1606.2	22.7
60°-70°	2490.7	35.2
70°-80°	856.3	12.1
80°-90°	47.1	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°	7066.0	100.0
0°-180°	7066.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198808

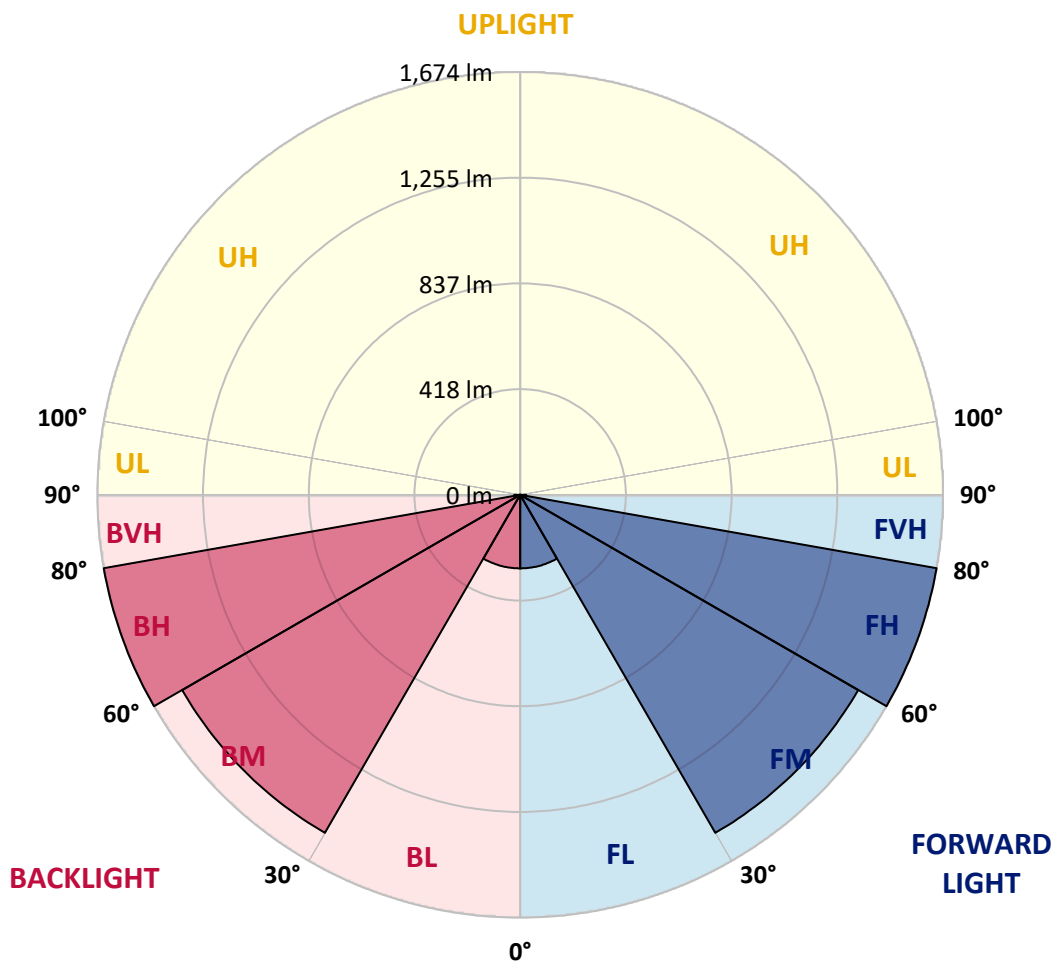
CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.2	4.1			
FM	(30°-60°)	1544.7	21.9			
FH	(60°-80°)	1673.5	23.7			G1/1800
FVH	(80°-90°)	23.5	0.3			G1/100
BL	(0°-30°)	291.2	4.1	B1/500		
BM	(30°-60°)	1544.7	21.9	B2/2500		
BH	(60°-80°)	1673.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	23.5	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





REPORT NUMBER: P198808

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	707.9	707.9	708.7	708.3	707.0	705.7	704.4	703.1	702.3	701.4	700.5
5°	700.5	700.5	701.8	701.0	700.1	698.8	697.9	696.6	695.8	694.9	695.3
7.5°	691.0	691.9	692.7	692.3	690.6	690.1	688.8	688.4	687.5	686.2	686.7
10°	682.8	683.2	684.1	683.7	683.2	681.9	681.5	681.1	680.6	678.9	678.5
12.5°	674.6	675.4	676.3	676.7	676.3	676.7	677.2	677.6	677.2	676.3	676.3
15°	668.1	668.9	670.2	671.5	672.0	674.6	676.3	678.0	679.3	679.8	678.5
17.5°	664.6	665.9	667.6	670.2	672.4	675.4	678.5	681.1	683.2	683.7	682.4
20°	664.2	665.5	668.1	671.1	675.0	678.9	683.7	687.5	689.7	691.0	689.7
22.5°	667.2	668.9	672.4	676.3	681.1	686.2	692.3	696.6	701.0	702.7	701.4
25°	675.9	677.6	681.5	686.2	691.4	697.9	704.0	709.6	713.9	716.1	714.4
27.5°	694.0	694.5	698.8	704.0	710.0	715.7	723.5	726.1	729.5	731.7	729.5
30°	719.6	720.4	724.3	732.5	738.2	745.5	749.9	752.5	756.3	758.5	755.9
32.5°	758.5	759.4	762.8	770.6	775.8	781.4	786.6	788.4	792.3	794.9	791.8
35°	813.5	815.2	818.2	823.4	827.7	832.1	836.0	834.7	837.3	840.7	837.7
37.5°	888.7	888.3	889.2	893.1	897.4	900.0	906.1	903.0	905.6	908.7	906.9
40°	976.6	976.6	976.2	983.1	984.8	987.4	993.9	990.0	993.5	996.9	993.9
42.5°	1076.5	1078.3	1080.4	1086.1	1090.8	1091.7	1094.7	1093.0	1097.3	1100.3	1097.3
45°	1191.6	1194.2	1196.8	1209.8	1212.0	1213.7	1215.9	1210.2	1215.0	1217.6	1216.7
47.5°	1311.1	1315.8	1321.4	1334.9	1343.5	1347.4	1349.1	1342.6	1343.1	1347.0	1347.4
50°	1446.1	1451.2	1456.9	1472.0	1480.2	1487.2	1489.3	1482.0	1482.8	1485.9	1486.7
52.5°	1570.7	1576.7	1588.8	1609.2	1620.9	1633.0	1633.8	1624.8	1628.7	1630.8	1629.1
55°	1687.9	1695.7	1711.7	1739.0	1760.2	1784.0	1794.8	1784.9	1784.9	1783.1	1782.3
57.5°	1824.7	1833.3	1849.8	1881.3	1910.8	1944.9	1974.4	1984.3	2002.5	2008.6	1999.0
60°	2030.6	2039.7	2056.6	2098.1	2135.3	2185.1	2233.6	2272.9	2337.0	2371.6	2340.4
62.5°	2218.8	2232.7	2272.5	2345.2	2425.7	2517.8	2624.7	2700.9	2817.3	2875.2	2796.9
65°	2176.0	2204.1	2282.0	2396.2	2562.4	2762.3	2979.9	3188.9	3429.5	3552.8	3393.6
67.5°	1900.8	1924.6	2008.6	2141.4	2348.6	2624.3	2962.6	3395.3	3891.6	4122.7	3841.0
68°	1795.7	1840.2	1923.7	2055.7	2264.7	2535.6	2896.9	3364.2	3905.9	4155.6	3851.4
70°	1376.8	1392.8	1472.9	1591.4	1816.9	2082.5	2447.3	2979.9	3592.2	3849.2	3536.4
72.5°	654.2	663.7	715.7	832.5	975.7	1192.1	1514.0	2016.3	2568.0	2835.4	2523.5
75°	239.7	241.9	254.0	281.7	335.3	416.7	571.2	883.6	1308.0	1559.9	1313.2
77.5°	129.4	129.8	134.6	141.5	151.0	161.8	185.2	248.4	400.7	545.2	423.2
80°	81.3	80.9	85.7	91.3	97.8	103.0	105.1	112.5	126.8	148.4	136.3
82.5°	41.5	45.4	56.2	62.3	71.8	73.6	71.4	71.0	75.3	81.3	83.9
85°	22.9	20.3	29.9	39.8	43.3	44.6	45.0	42.4	41.5	40.7	42.8
87.5°	11.7	10.8	13.0	19.9	21.2	17.3	17.7	15.1	10.4	10.4	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198808

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	699.7	700.1	699.2	699.2	699.2	699.7	699.2	698.8
5°	694.0	694.9	694.9	695.3	695.8	695.8	695.8	695.8
7.5°	685.8	686.2	687.1	687.1	687.1	687.1	687.1	687.1
10°	678.0	677.2	676.7	675.9	675.9	674.6	675.0	675.4
12.5°	674.1	672.4	671.5	670.2	669.4	668.1	668.1	668.5
15°	675.9	673.3	670.7	669.8	668.9	668.1	667.2	667.6
17.5°	679.3	676.3	673.3	671.5	669.8	668.5	668.1	668.5
20°	686.7	682.4	677.6	674.6	671.1	670.2	668.9	670.2
22.5°	696.6	691.4	685.4	679.8	675.9	674.1	672.4	673.7
25°	708.7	703.1	697.1	690.6	686.2	685.0	682.8	682.8
27.5°	725.6	720.9	715.7	709.6	705.3	704.0	700.5	700.5
30°	752.5	747.7	742.9	737.7	733.4	732.1	727.8	727.8
32.5°	787.9	782.7	779.7	775.4	771.9	769.8	764.6	764.1
35°	835.5	830.8	830.3	827.3	823.8	824.3	819.1	818.2
37.5°	903.9	900.0	901.3	898.7	895.7	898.3	895.2	895.2
40°	991.3	990.0	991.3	989.6	990.0	990.4	987.8	988.7
42.5°	1096.9	1093.4	1101.2	1100.3	1099.0	1102.5	1096.4	1092.1
45°	1218.5	1217.2	1224.9	1226.2	1223.7	1225.8	1215.0	1214.6
47.5°	1350.4	1350.4	1357.4	1356.5	1353.9	1354.3	1341.3	1333.1
50°	1488.0	1487.2	1494.1	1492.4	1488.9	1488.5	1475.0	1466.8
52.5°	1631.2	1631.2	1641.2	1636.4	1628.2	1624.3	1607.9	1597.1
55°	1789.6	1787.4	1790.5	1774.9	1758.9	1747.2	1726.9	1718.7
57.5°	1989.9	1964.9	1943.2	1923.3	1900.8	1887.0	1863.2	1854.5
60°	2274.2	2207.2	2178.2	2138.4	2101.2	2082.5	2051.0	2034.1
62.5°	2668.0	2556.8	2478.0	2390.2	2305.4	2245.7	2197.6	2176.4
65°	3123.2	2880.9	2680.5	2492.3	2332.6	2205.9	2135.3	2113.3
67.5°	3296.2	2851.4	2505.7	2235.7	2041.9	1890.9	1806.5	1788.7
68°	3259.5	2783.9	2424.8	2148.3	1953.6	1801.3	1717.4	1701.3
70°	2875.2	2348.6	1969.6	1694.4	1512.7	1367.7	1308.5	1282.9
72.5°	1960.1	1508.4	1157.0	925.5	789.7	697.9	643.4	624.8
75°	902.2	609.7	407.2	304.2	258.3	236.2	219.4	215.0
77.5°	263.1	191.2	164.4	152.3	143.2	135.4	129.8	129.4
80°	125.0	117.3	113.8	106.0	97.8	90.4	85.2	86.1
82.5°	83.9	81.8	81.8	74.0	61.0	52.4	43.3	38.9
85°	44.6	46.3	48.9	46.3	40.2	29.9	19.5	21.2
87.5°	15.1	17.3	18.2	17.7	16.0	12.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)