

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: P198651

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8355.5 lumens
Efficiency: N/A
Efficacy: 126.6 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

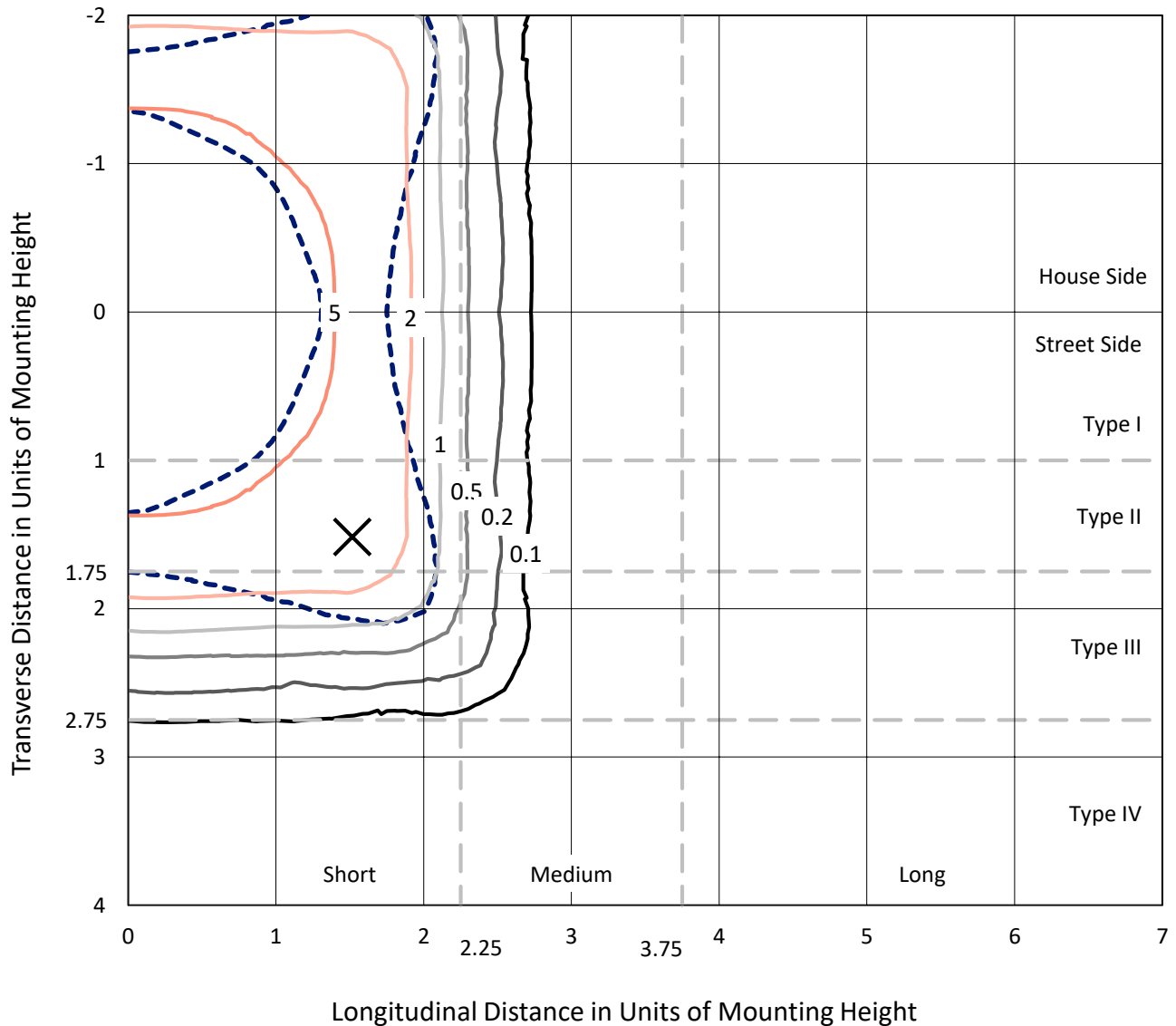
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

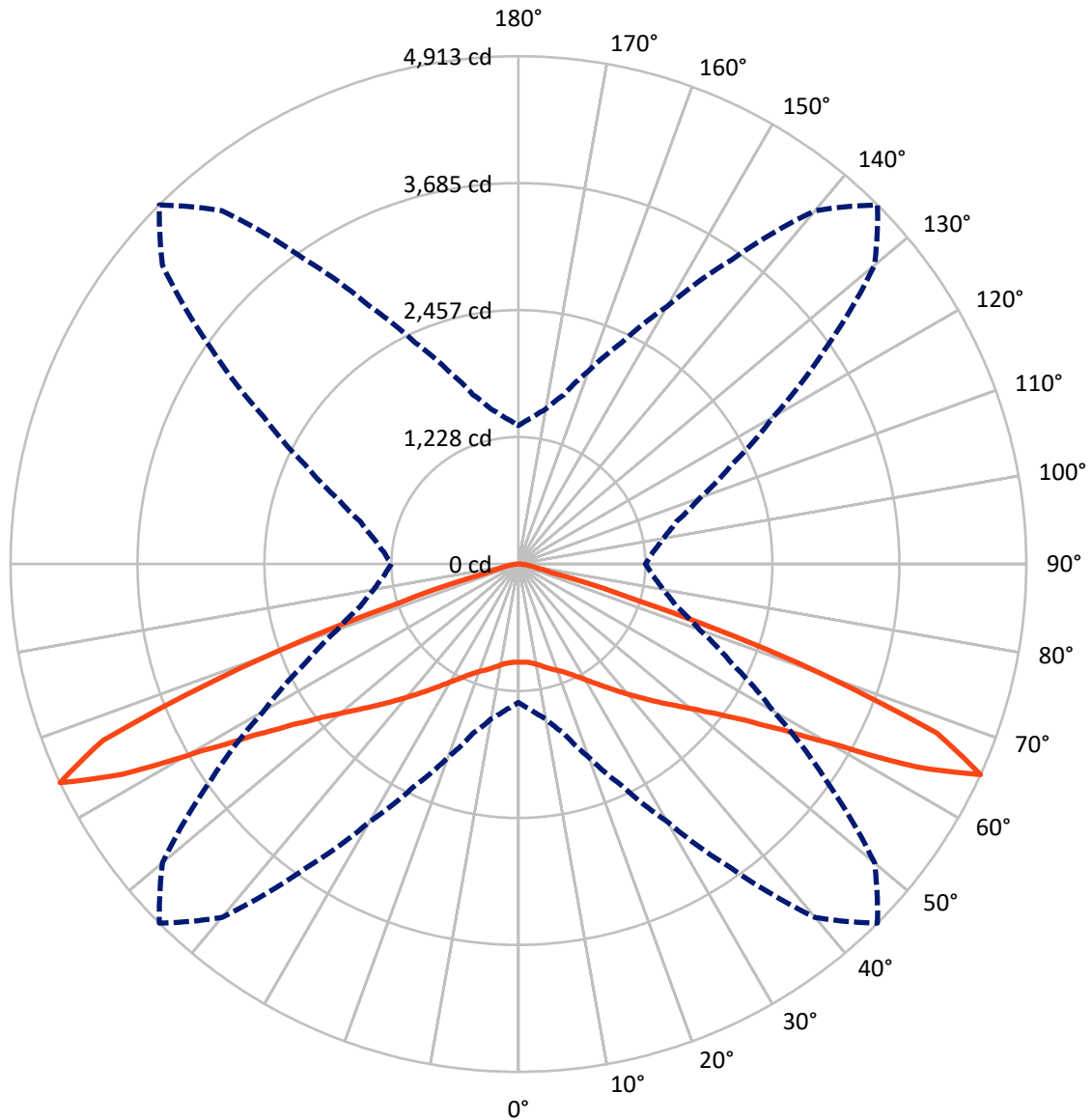
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4177.7	0.0	4177.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4177.7	0.0	4177.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8355.5	0.0	8355.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	296.6	3.6
20°-30°	553.4	6.6
30°-40°	933.1	11.2
40°-50°	1515.6	18.1
50°-60°	2374.6	28.4
60°-70°	2241.5	26.8
70°-80°	302.1	3.6
80°-90°	46.0	0.6
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°	8355.5	100.0
0°-180°	8355.5	100.0

Coefficient of Utilization



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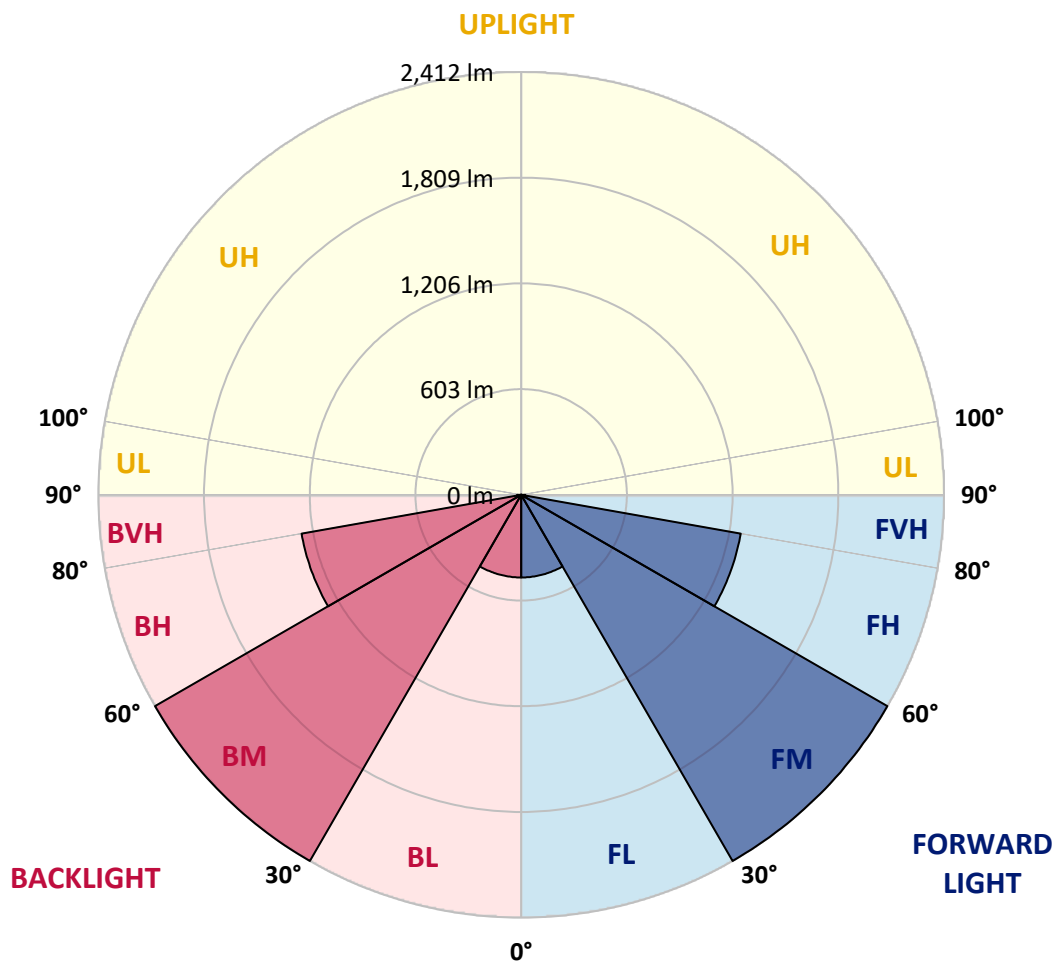
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.3	5.6			
FM	(30°-60°)	2411.6	28.9			
FH	(60°-80°)	1271.8	15.2			G1/1800
FVH	(80°-90°)	23.0	0.3			G1/100
BL	(0°-30°)	471.3	5.6	B1/500		
BM	(30°-60°)	2411.6	28.9	B2/2500		
BH	(60°-80°)	1271.8	15.2	B3/2500		G1/1800
BVH	(80°-90°)	23.0	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°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4
2.5°	958.2	958.2	959.8	959.3	957.2	955.6	954.1	952.0	950.9	949.9	949.4
5°	963.4	963.4	964.9	964.4	962.9	960.9	959.8	958.2	956.7	955.6	956.2
7.5°	976.4	976.9	977.5	976.9	975.4	973.8	971.8	971.3	969.1	967.6	968.6
10°	996.3	996.3	996.8	997.3	996.3	992.6	992.6	991.5	989.5	987.4	987.9
12.5°	1018.0	1018.0	1018.7	1018.7	1018.7	1016.5	1017.0	1016.5	1013.9	1012.9	1013.9
15°	1039.4	1039.9	1039.9	1041.0	1041.0	1041.5	1043.6	1043.6	1042.6	1042.1	1042.1
17.5°	1064.4	1065.4	1066.0	1067.6	1068.1	1069.1	1071.1	1071.7	1072.3	1070.6	1071.1
20°	1097.7	1098.2	1099.8	1100.3	1102.4	1102.4	1103.5	1102.9	1101.9	1099.8	1099.8
22.5°	1135.2	1136.2	1139.4	1139.4	1141.9	1140.4	1140.9	1139.4	1136.8	1135.7	1134.7
25°	1184.2	1185.7	1188.3	1187.2	1188.3	1185.7	1185.7	1185.7	1184.2	1182.5	1182.0
27.5°	1246.1	1243.5	1246.1	1244.0	1243.5	1241.4	1241.9	1240.8	1239.3	1238.8	1236.6
30°	1310.6	1307.4	1309.1	1309.6	1308.6	1308.0	1305.9	1304.4	1301.8	1302.3	1300.7
32.5°	1384.6	1381.4	1382.9	1383.4	1382.4	1383.4	1382.9	1379.3	1376.2	1378.2	1378.2
35°	1472.4	1470.4	1474.6	1476.1	1473.0	1471.4	1469.4	1465.2	1460.5	1463.6	1464.1
37.5°	1578.1	1575.5	1578.6	1582.8	1577.1	1574.0	1565.6	1559.4	1556.3	1557.9	1559.9
40°	1688.0	1688.5	1697.4	1698.4	1692.2	1688.5	1680.2	1670.8	1662.0	1662.0	1664.5
42.5°	1803.6	1805.1	1815.5	1819.1	1817.1	1810.3	1798.9	1787.4	1775.9	1778.0	1781.2
45°	1934.2	1932.0	1943.0	1951.9	1950.3	1948.2	1937.3	1916.5	1906.1	1905.6	1910.8
47.5°	2071.6	2075.8	2087.2	2102.3	2101.8	2096.5	2082.5	2063.3	2044.0	2045.6	2051.8
50°	2231.9	2237.6	2256.8	2272.0	2274.0	2272.5	2255.8	2233.4	2206.4	2207.9	2216.2
52.5°	2375.5	2383.9	2406.3	2437.5	2456.7	2465.6	2454.7	2433.8	2406.3	2407.8	2416.6
55°	2505.6	2518.7	2552.0	2594.7	2633.2	2669.1	2685.2	2684.7	2664.4	2669.1	2680.5
57.5°	2587.3	2605.6	2656.1	2724.8	2801.4	2873.7	2936.1	2994.9	3008.0	3032.4	3032.4
60°	2477.6	2520.2	2587.3	2705.0	2855.5	3017.8	3193.8	3365.0	3475.4	3562.2	3515.5
62.5°	2068.9	2131.9	2226.1	2381.2	2615.5	2905.4	3258.8	3656.9	4072.4	4326.4	4140.0
65°	1338.7	1417.8	1520.4	1694.7	1989.8	2363.0	2877.9	3593.5	4462.7	4913.4	4497.1
67.5°	530.4	584.0	646.5	770.3	1026.4	1392.8	1970.6	2853.3	3940.7	4366.0	3899.0
70°	253.5	262.3	274.3	300.8	364.9	492.3	791.7	1405.8	2416.6	2864.8	2358.9
72.5°	183.2	184.7	190.5	199.4	218.1	244.1	296.7	429.9	833.3	1211.7	834.3
75°	139.0	141.1	144.1	148.8	158.8	171.2	191.0	229.0	285.2	329.0	284.7
77.5°	105.7	107.7	110.4	115.0	120.2	129.1	136.4	151.5	175.4	184.7	183.7
80°	77.0	80.7	84.8	89.0	92.7	96.8	97.3	104.6	118.2	127.1	124.4
82.5°	48.9	52.1	63.0	67.6	68.2	69.3	68.7	69.3	76.5	82.8	80.7
85°	31.2	33.3	39.1	44.2	43.2	45.3	45.3	44.2	41.1	35.4	42.1
87.5°	15.7	16.2	18.7	23.4	22.4	19.7	19.2	19.2	14.0	12.0	13.0
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°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4
2.5°	947.9	948.9	947.3	947.3	946.7	947.9	946.2	946.2
5°	955.1	956.7	956.2	956.2	957.2	958.2	957.7	957.2
7.5°	968.1	969.1	970.2	970.7	971.8	971.3	972.3	971.8
10°	987.9	986.8	988.4	986.8	987.4	986.3	986.8	986.8
12.5°	1012.9	1011.3	1010.3	1009.2	1009.2	1007.2	1007.2	1007.7
15°	1041.5	1038.9	1036.9	1035.7	1034.7	1034.7	1033.2	1034.2
17.5°	1069.6	1067.0	1063.4	1063.4	1061.8	1060.8	1059.8	1062.3
20°	1099.3	1096.7	1094.6	1094.0	1091.0	1090.0	1090.5	1093.5
22.5°	1133.6	1132.1	1132.1	1131.1	1128.9	1127.4	1127.4	1131.1
25°	1180.0	1176.8	1177.3	1177.9	1176.8	1176.8	1175.8	1178.4
27.5°	1236.6	1234.1	1235.6	1236.6	1235.6	1237.3	1235.6	1237.8
30°	1303.3	1301.8	1303.3	1304.9	1302.3	1302.3	1301.2	1302.8
32.5°	1382.9	1380.9	1381.9	1381.9	1378.2	1375.2	1371.0	1374.1
35°	1470.4	1467.8	1469.9	1471.4	1467.3	1464.1	1457.9	1460.5
37.5°	1566.6	1567.8	1570.3	1577.1	1576.1	1570.8	1566.1	1568.3
40°	1674.5	1679.7	1691.0	1695.7	1694.7	1689.5	1683.3	1684.3
42.5°	1796.2	1803.0	1814.9	1822.8	1819.1	1811.9	1804.1	1807.1
45°	1929.0	1939.4	1955.0	1962.7	1958.1	1950.3	1939.4	1945.0
47.5°	2069.5	2090.3	2111.2	2121.5	2120.0	2109.0	2095.0	2096.5
50°	2237.6	2265.2	2291.7	2302.2	2294.4	2277.7	2257.9	2257.3
52.5°	2446.8	2476.6	2498.4	2495.8	2476.6	2450.5	2428.1	2427.1
55°	2708.2	2718.0	2714.9	2692.5	2658.6	2618.1	2589.5	2584.8
57.5°	3024.0	2990.8	2941.8	2874.2	2798.2	2721.2	2669.1	2649.9
60°	3410.3	3259.8	3085.0	2900.7	2732.6	2606.7	2527.0	2478.6
62.5°	3729.4	3293.7	2902.8	2582.7	2320.9	2165.3	2056.4	1989.3
65°	3620.0	2845.5	2279.2	1866.5	1580.8	1420.0	1304.9	1228.4
67.5°	2796.6	1901.4	1323.1	917.1	695.4	588.7	514.2	465.9
70°	1410.0	729.3	441.9	311.8	266.5	247.8	235.3	228.0
72.5°	413.8	276.4	229.6	203.0	186.9	175.4	168.1	164.5
75°	229.0	186.9	165.0	149.9	139.5	131.7	127.1	123.9
77.5°	157.7	135.8	124.9	115.0	106.7	101.0	97.3	94.2
80°	110.4	99.4	94.7	89.5	83.3	78.6	73.3	71.3
82.5°	73.3	68.7	67.6	63.5	59.8	54.6	45.3	42.1
85°	43.2	42.7	42.7	41.1	38.6	33.9	27.1	27.1
87.5°	15.1	15.7	16.2	17.2	16.7	14.0	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)