

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: P198803

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198803
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-7050-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 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: 8462 lumens
Efficiency: N/A
Efficacy: 128.2 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 - G2

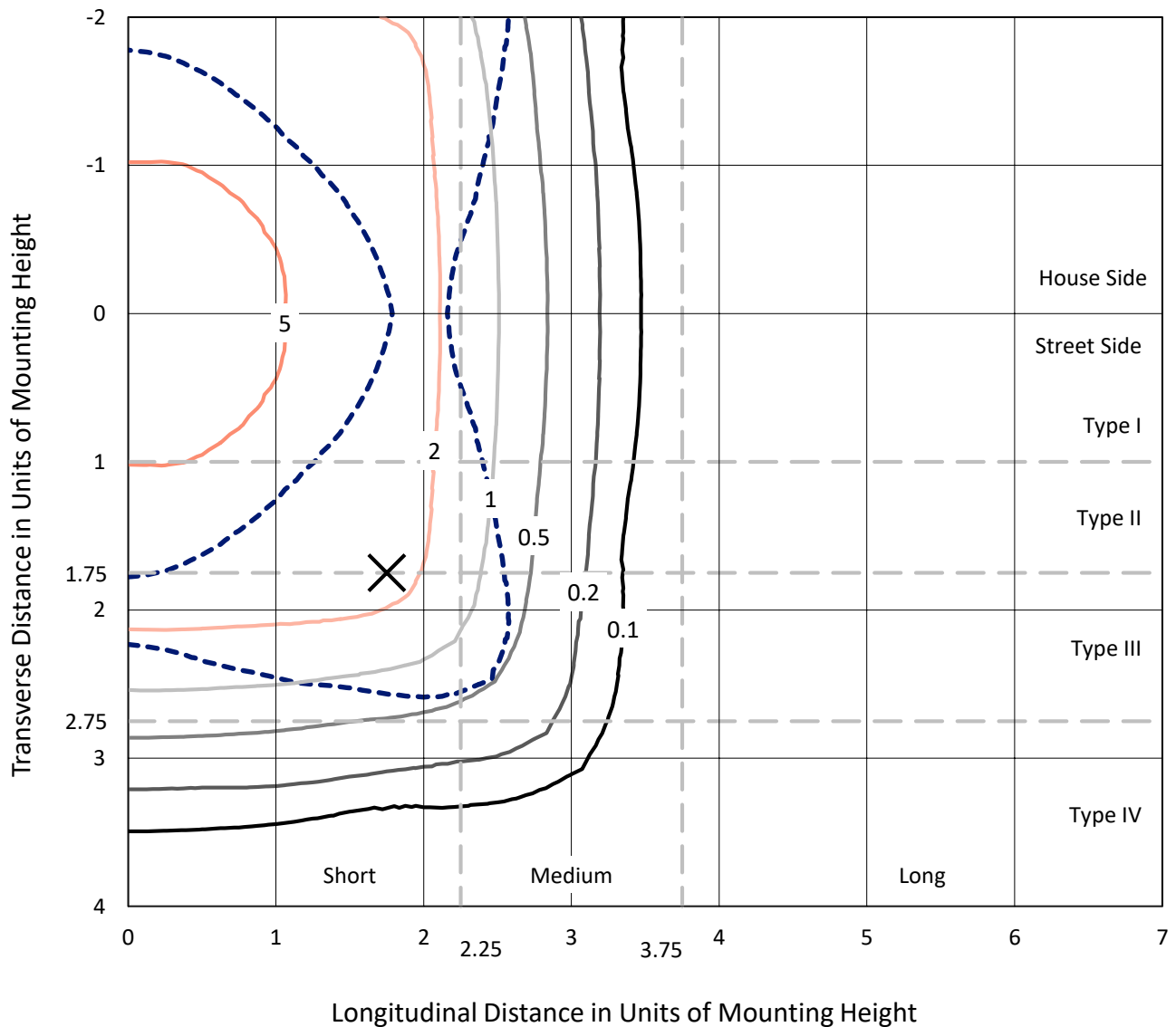
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

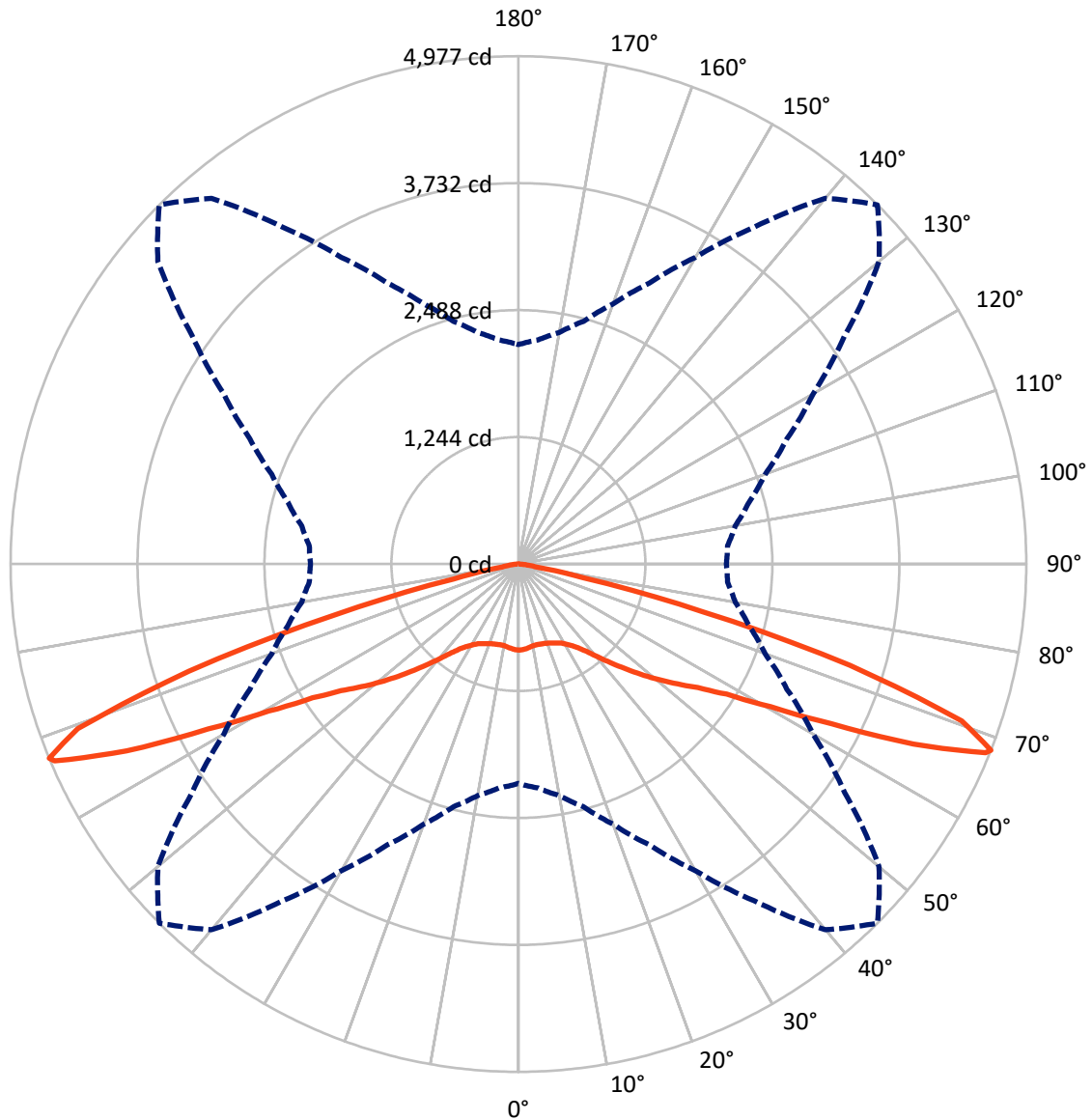
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	4231.0	0.0	4231.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4231.0	0.0	4231.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8462.0	0.0	8462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	0.9
10°-20°	229.1	2.7
20°-30°	389.4	4.6
30°-40°	637.3	7.5
40°-50°	1139.0	13.5
50°-60°	1923.6	22.7
60°-70°	2982.7	35.2
70°-80°	1025.5	12.1
80°-90°	56.4	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°	8462.0	100.0
0°-180°	8462.0	100.0



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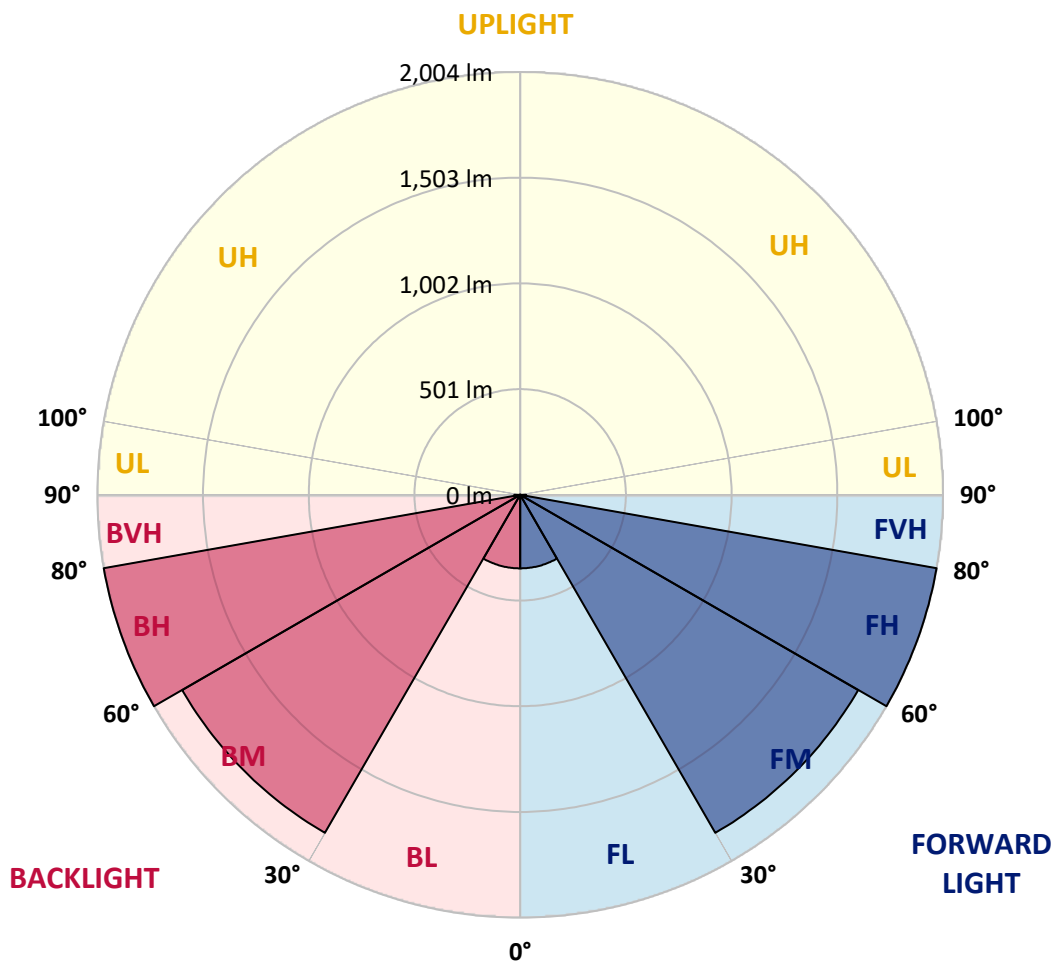
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.8	4.1			
FM	(30°-60°)	1849.9	21.9			
FH	(60°-80°)	2004.1	23.7			G2/5000
FVH	(80°-90°)	28.2	0.3			G1/100
BL	(0°-30°)	348.8	4.1	B1/500		
BM	(30°-60°)	1849.9	21.9	B2/2500		
BH	(60°-80°)	2004.1	23.7	B3/2500		G2/5000
BVH	(80°-90°)	28.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1
2.5°	847.7	847.7	848.8	848.3	846.7	845.1	843.6	842.0	841.0	840.0	838.9
5°	838.9	838.9	840.5	839.4	838.4	836.9	835.8	834.3	833.2	832.2	832.7
7.5°	827.5	828.6	829.6	829.1	827.0	826.5	824.9	824.4	823.4	821.8	822.3
10°	817.7	818.2	819.2	818.7	818.2	816.6	816.1	815.6	815.1	813.0	812.5
12.5°	807.8	808.9	809.9	810.4	809.9	810.4	810.9	811.5	810.9	809.9	809.9
15°	800.1	801.1	802.7	804.2	804.7	807.8	809.9	812.0	813.5	814.1	812.5
17.5°	795.9	797.5	799.5	802.7	805.2	808.9	812.5	815.6	818.2	818.7	817.2
20°	795.4	797.0	800.1	803.7	808.4	813.0	818.7	823.4	826.0	827.5	826.0
22.5°	799.0	801.1	805.2	809.9	815.6	821.8	829.1	834.3	839.4	841.5	840.0
25°	809.4	811.5	816.1	821.8	828.0	835.8	843.1	849.8	855.0	857.6	855.5
27.5°	831.2	831.7	836.9	843.1	850.3	857.1	866.4	869.5	873.6	876.2	873.6
30°	861.7	862.8	867.4	877.3	884.0	892.8	898.0	901.1	905.8	908.4	905.3
32.5°	908.4	909.4	913.5	922.9	929.1	935.8	942.0	944.1	948.8	951.9	948.3
35°	974.2	976.2	979.9	986.1	991.3	996.5	1001.1	999.6	1002.7	1006.8	1003.2
37.5°	1064.3	1063.8	1064.9	1069.5	1074.7	1077.8	1085.1	1081.4	1084.5	1088.2	1086.1
40°	1169.5	1169.5	1169.0	1177.3	1179.4	1182.5	1190.3	1185.6	1189.7	1193.9	1190.3
42.5°	1289.2	1291.3	1293.9	1300.6	1306.3	1307.4	1311.0	1308.9	1314.1	1317.7	1314.1
45°	1427.1	1430.2	1433.3	1448.8	1451.4	1453.5	1456.1	1449.3	1455.0	1458.1	1457.1
47.5°	1570.1	1575.8	1582.5	1598.6	1608.9	1613.6	1615.7	1607.9	1608.4	1613.1	1613.6
50°	1731.7	1738.0	1744.7	1762.8	1772.7	1781.0	1783.6	1774.8	1775.8	1779.4	1780.5
52.5°	1881.0	1888.2	1902.7	1927.1	1941.1	1955.6	1956.6	1945.8	1950.4	1953.0	1950.9
55°	2021.4	2030.7	2049.9	2082.6	2107.9	2136.4	2149.4	2137.5	2137.5	2135.4	2134.4
57.5°	2185.2	2195.5	2215.2	2253.0	2288.3	2329.2	2364.4	2376.4	2398.1	2405.4	2394.0
60°	2431.8	2442.7	2462.9	2512.6	2557.2	2616.8	2674.8	2722.0	2798.7	2840.1	2802.8
62.5°	2657.2	2673.8	2721.5	2808.5	2904.9	3015.3	3143.3	3234.5	3373.8	3443.3	3349.5
65°	2605.9	2639.6	2732.9	2869.7	3068.6	3308.0	3568.7	3819.0	4107.1	4254.7	4064.1
67.5°	2276.3	2304.8	2405.4	2564.5	2812.7	3142.7	3548.0	4066.1	4660.5	4937.2	4599.9
68°	2150.4	2203.8	2303.8	2461.9	2712.1	3036.5	3469.2	4028.8	4677.6	4976.6	4612.3
70°	1648.8	1668.0	1763.9	1905.9	2175.8	2494.0	2930.8	3568.7	4301.9	4609.7	4235.1
72.5°	783.5	794.9	857.1	997.0	1168.5	1427.6	1813.1	2414.7	3075.4	3395.6	3022.0
75°	287.1	289.7	304.2	337.3	401.6	499.0	684.0	1058.1	1566.4	1868.0	1572.7
77.5°	154.9	155.5	161.2	169.4	180.8	193.8	221.8	297.4	479.8	652.9	506.8
80°	97.4	96.9	102.6	109.3	117.1	123.3	125.9	134.7	151.8	177.7	163.2
82.5°	49.7	54.4	67.4	74.6	86.0	88.1	85.5	85.0	90.2	97.4	100.5
85°	27.5	24.4	35.8	47.7	51.8	53.4	53.9	50.8	49.7	48.7	51.3
87.5°	14.0	13.0	15.5	23.8	25.4	20.7	21.2	18.1	12.4	12.4	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°	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1
2.5°	837.9	838.4	837.4	837.4	837.4	837.9	837.4	836.9
5°	831.2	832.2	832.2	832.7	833.2	833.2	833.2	833.2
7.5°	821.3	821.8	822.9	822.9	822.9	822.9	822.9	822.9
10°	812.0	810.9	810.4	809.4	809.4	807.8	808.4	808.9
12.5°	807.3	805.2	804.2	802.7	801.6	800.1	800.1	800.6
15°	809.4	806.3	803.2	802.1	801.1	800.1	799.0	799.5
17.5°	813.5	809.9	806.3	804.2	802.1	800.6	800.1	800.6
20°	822.3	817.2	811.5	807.8	803.7	802.7	801.1	802.7
22.5°	834.3	828.0	820.8	814.1	809.4	807.3	805.2	806.8
25°	848.8	842.0	834.8	827.0	821.8	820.3	817.7	817.7
27.5°	869.0	863.3	857.1	849.8	844.6	843.1	838.9	838.9
30°	901.1	895.4	889.7	883.5	878.3	876.8	871.6	871.6
32.5°	943.6	937.4	933.8	928.6	924.4	921.8	915.6	915.1
35°	1000.6	994.9	994.4	990.8	986.6	987.1	980.9	979.9
37.5°	1082.5	1077.8	1079.4	1076.3	1072.6	1075.7	1072.1	1072.1
40°	1187.1	1185.6	1187.1	1185.1	1185.6	1186.1	1183.0	1184.0
42.5°	1313.6	1309.4	1318.8	1317.7	1316.2	1320.3	1313.1	1307.9
45°	1459.2	1457.6	1467.0	1468.5	1465.4	1468.0	1455.0	1454.5
47.5°	1617.2	1617.2	1625.5	1624.5	1621.4	1621.9	1606.3	1596.5
50°	1782.0	1781.0	1789.3	1787.2	1783.0	1782.5	1766.5	1756.6
52.5°	1953.5	1953.5	1965.4	1959.7	1949.9	1945.2	1925.5	1912.6
55°	2143.2	2140.6	2144.2	2125.6	2106.4	2092.4	2068.0	2058.2
57.5°	2383.1	2353.0	2327.1	2303.3	2276.3	2259.8	2231.3	2220.9
60°	2723.5	2643.2	2608.5	2560.8	2516.3	2494.0	2456.2	2435.9
62.5°	3195.1	3061.9	2967.6	2862.4	2760.8	2689.3	2631.8	2606.4
65°	3740.2	3450.0	3210.1	2984.7	2793.5	2641.7	2557.2	2530.8
67.5°	3947.5	3414.8	3000.8	2677.4	2445.3	2264.4	2163.4	2142.1
68°	3903.4	3333.9	2903.9	2572.7	2339.6	2157.2	2056.6	2037.5
70°	3443.3	2812.7	2358.7	2029.2	1811.5	1638.0	1567.0	1536.4
72.5°	2347.3	1806.4	1385.6	1108.4	945.7	835.8	770.5	748.2
75°	1080.4	730.1	487.6	364.3	309.4	282.9	262.7	257.5
77.5°	315.1	229.0	196.9	182.4	171.5	162.2	155.5	154.9
80°	149.8	140.4	136.3	127.0	117.1	108.3	102.1	103.1
82.5°	100.5	97.9	97.9	88.6	73.1	62.7	51.8	46.6
85°	53.4	55.4	58.6	55.4	48.2	35.8	23.3	25.4
87.5°	18.1	20.7	21.8	21.2	19.2	14.5	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)