

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: P199125

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199125
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-8030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8467 lumens
Efficiency: N/A
Efficacy: 99.6 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 - G2

Input Watts (W): 85
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

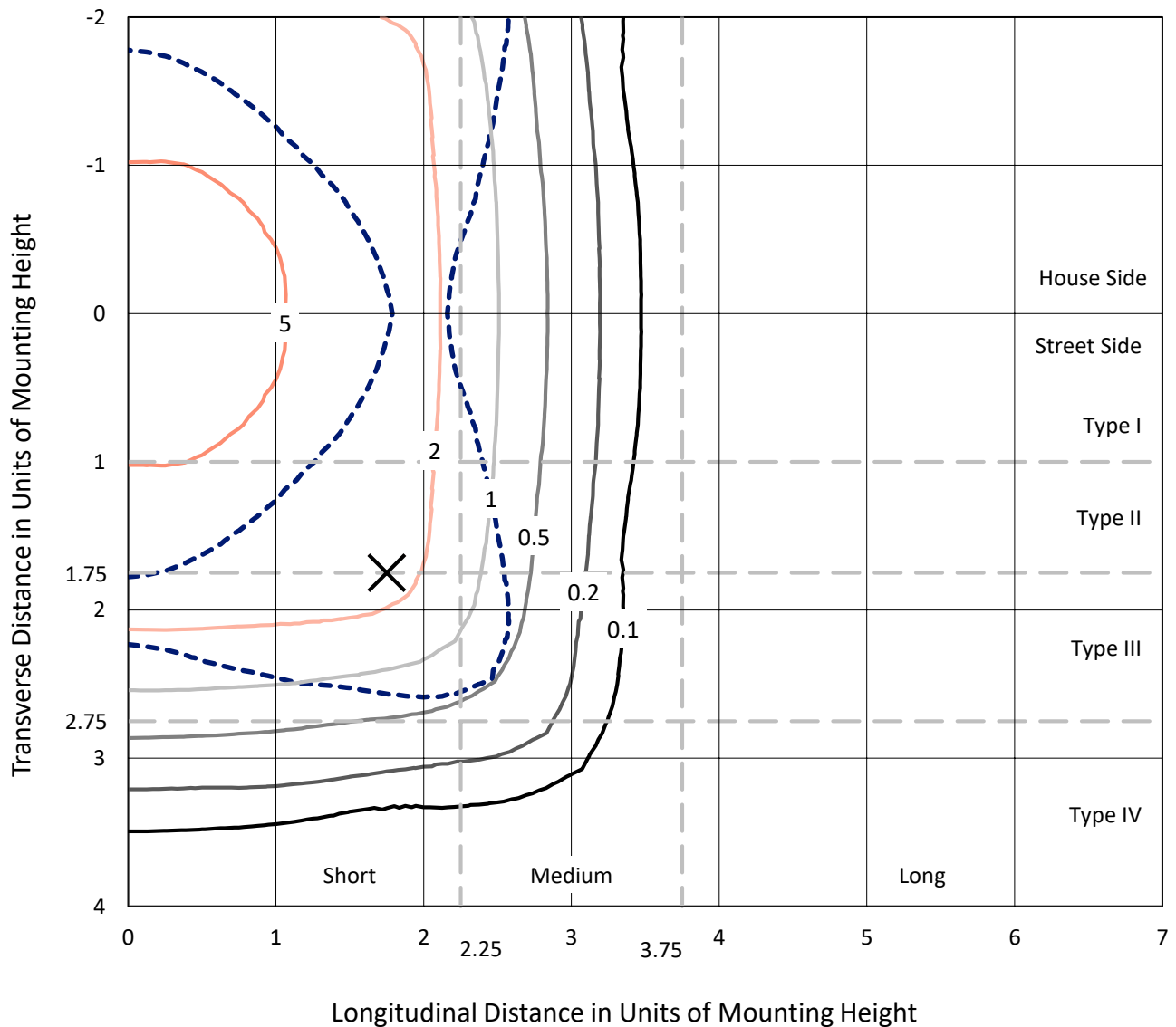


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Iso-Footcandle Lines of Horizontal Illumination

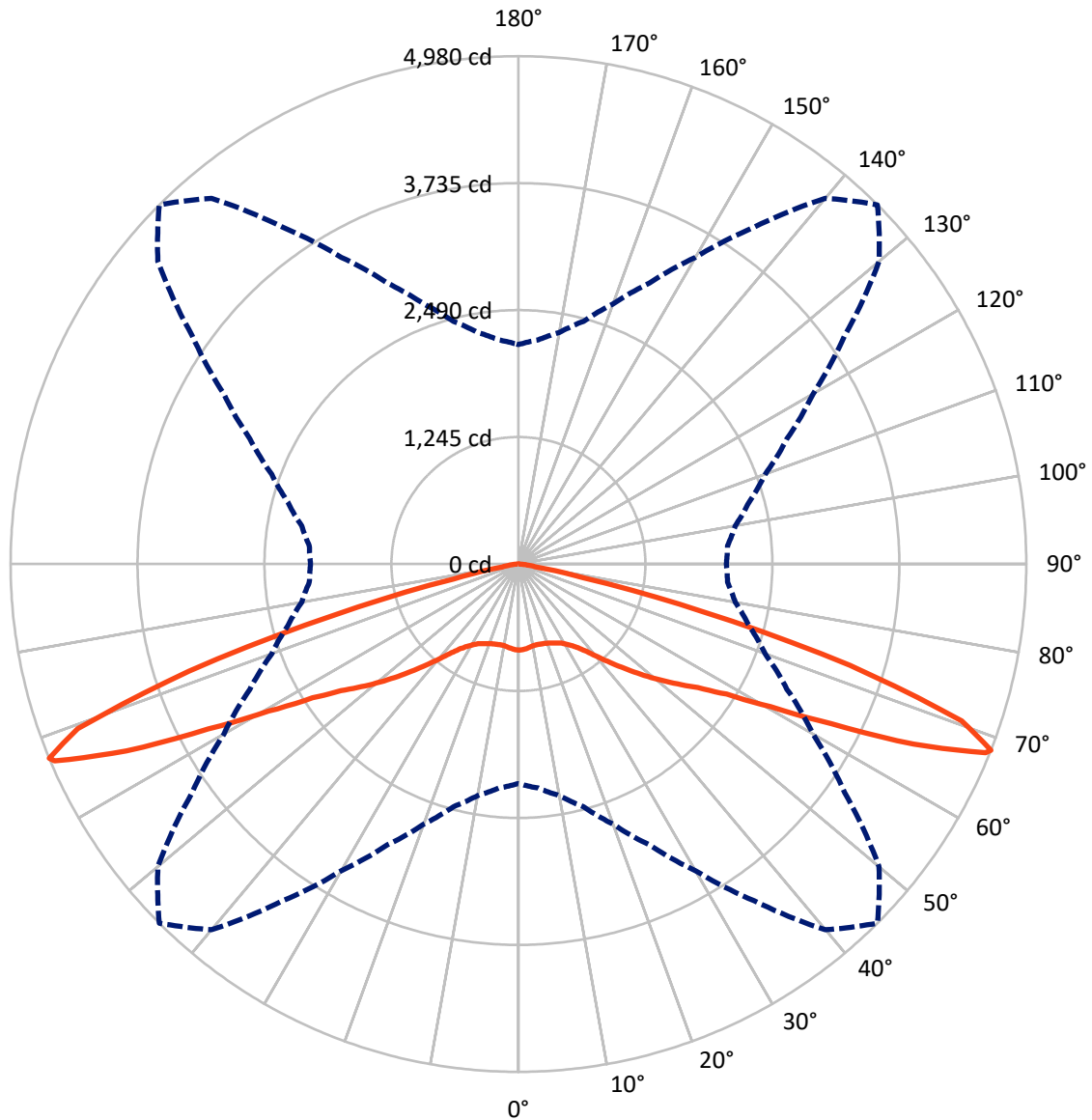
✕ Max cd
 - - - 1/2 Max cd



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	4233.5	0.0	4233.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4233.5	0.0	4233.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8467.0	0.0	8467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	0.9
10°-20°	229.2	2.7
20°-30°	389.7	4.6
30°-40°	637.7	7.5
40°-50°	1139.7	13.5
50°-60°	1924.7	22.7
60°-70°	2984.5	35.2
70°-80°	1026.1	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°	8467.0	100.0
0°-180°	8467.0	100.0



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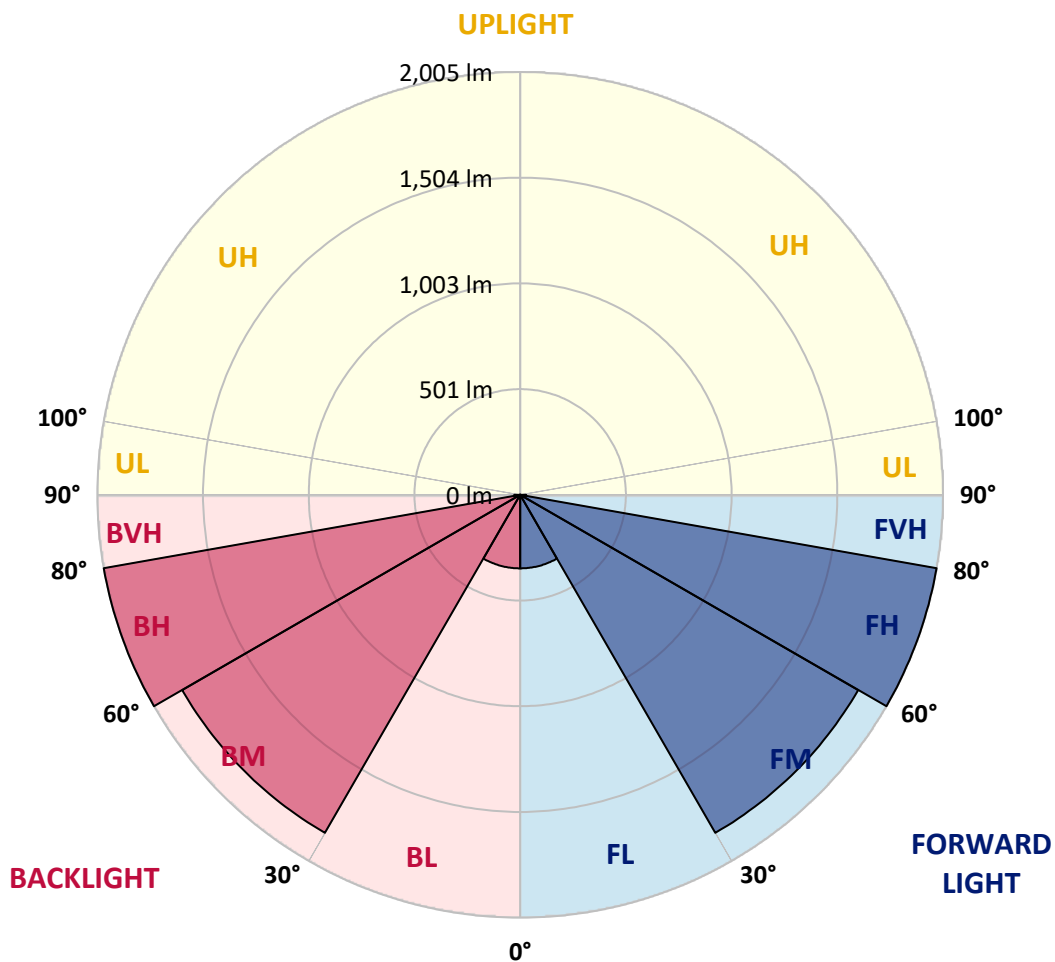
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.0	4.1			
FM	(30°-60°)	1851.0	21.9			
FH	(60°-80°)	2005.3	23.7			G2/5000
FVH	(80°-90°)	28.2	0.3			G1/100
BL	(0°-30°)	349.0	4.1	B1/500		
BM	(30°-60°)	1851.0	21.9	B2/2500		
BH	(60°-80°)	2005.3	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°	844.6	844.6	844.6	844.6	844.6	844.6	844.6	844.6	844.6	844.6	844.6
2.5°	848.2	848.2	849.3	848.8	847.2	845.6	844.1	842.5	841.5	840.5	839.4
5°	839.4	839.4	841.0	839.9	838.9	837.3	836.3	834.8	833.7	832.7	833.2
7.5°	828.0	829.1	830.1	829.6	827.5	827.0	825.4	824.9	823.9	822.3	822.8
10°	818.2	818.7	819.7	819.2	818.7	817.1	816.6	816.1	815.6	813.5	813.0
12.5°	808.3	809.4	810.4	810.9	810.4	810.9	811.4	811.9	811.4	810.4	810.4
15°	800.5	801.6	803.1	804.7	805.2	808.3	810.4	812.5	814.0	814.5	813.0
17.5°	796.4	797.9	800.0	803.1	805.7	809.4	813.0	816.1	818.7	819.2	817.6
20°	795.9	797.4	800.5	804.2	808.8	813.5	819.2	823.9	826.5	828.0	826.5
22.5°	799.5	801.6	805.7	810.4	816.1	822.3	829.6	834.8	839.9	842.0	840.5
25°	809.9	811.9	816.6	822.3	828.5	836.3	843.6	850.3	855.5	858.1	856.0
27.5°	831.6	832.2	837.3	843.6	850.8	857.6	866.9	870.0	874.2	876.8	874.2
30°	862.2	863.3	867.9	877.8	884.5	893.3	898.5	901.6	906.3	908.9	905.8
32.5°	908.9	909.9	914.1	923.4	929.6	936.4	942.6	944.7	949.3	952.5	948.8
35°	974.7	976.8	980.5	986.7	991.9	997.0	1001.7	1000.2	1003.3	1007.4	1003.8
37.5°	1065.0	1064.4	1065.5	1070.1	1075.3	1078.4	1085.7	1082.1	1085.2	1088.8	1086.7
40°	1170.2	1170.2	1169.7	1178.0	1180.1	1183.2	1191.0	1186.3	1190.4	1194.6	1191.0
42.5°	1290.0	1292.1	1294.7	1301.4	1307.1	1308.1	1311.8	1309.7	1314.9	1318.5	1314.9
45°	1427.9	1431.0	1434.1	1449.7	1452.3	1454.3	1456.9	1450.2	1455.9	1459.0	1458.0
47.5°	1571.0	1576.7	1583.4	1599.5	1609.9	1614.6	1616.6	1608.9	1609.4	1614.0	1614.6
50°	1732.8	1739.0	1745.7	1763.9	1773.7	1782.0	1784.6	1775.8	1776.8	1780.5	1781.5
52.5°	1882.1	1889.4	1903.9	1928.2	1942.2	1956.8	1957.8	1946.9	1951.6	1954.2	1952.1
55°	2022.6	2031.9	2051.1	2083.8	2109.2	2137.7	2150.7	2138.7	2138.7	2136.7	2135.6
57.5°	2186.4	2196.8	2216.5	2254.4	2289.6	2330.6	2365.8	2377.8	2399.5	2406.8	2395.4
60°	2433.2	2444.1	2464.3	2514.1	2558.7	2618.3	2676.4	2723.6	2800.3	2841.8	2804.5
62.5°	2658.8	2675.4	2723.1	2810.2	2906.6	3017.1	3145.1	3236.4	3375.8	3445.3	3351.5
65°	2607.4	2641.2	2734.5	2871.4	3070.5	3310.0	3570.8	3821.2	4109.5	4257.3	4066.5
67.5°	2277.7	2306.2	2406.8	2566.0	2814.3	3144.6	3550.1	4068.5	4663.2	4940.1	4602.6
68°	2151.7	2205.1	2305.2	2463.3	2713.7	3038.3	3471.2	4031.2	4680.3	4979.5	4615.0
70°	1649.8	1669.0	1764.9	1907.0	2177.1	2495.5	2932.5	3570.8	4304.4	4612.4	4237.6
72.5°	783.9	795.4	857.6	997.6	1169.2	1428.4	1814.2	2416.1	3077.2	3397.6	3023.8
75°	287.2	289.8	304.3	337.5	401.8	499.3	684.4	1058.7	1567.4	1869.1	1573.6
77.5°	155.0	155.5	161.2	169.5	181.0	193.9	221.9	297.6	480.1	653.3	507.1
80°	97.5	97.0	102.7	109.4	117.2	123.4	126.0	134.8	151.9	177.8	163.3
82.5°	49.8	54.4	67.4	74.7	86.1	88.1	85.5	85.0	90.2	97.5	100.6
85°	27.5	24.4	35.8	47.7	51.8	53.4	53.9	50.8	49.8	48.7	51.3
87.5°	14.0	13.0	15.6	23.9	25.4	20.7	21.3	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°	844.6	844.6	844.6	844.6	844.6	844.6	844.6	844.6
2.5°	838.4	838.9	837.9	837.9	837.9	838.4	837.9	837.3
5°	831.6	832.7	832.7	833.2	833.7	833.7	833.7	833.7
7.5°	821.8	822.3	823.4	823.4	823.4	823.4	823.4	823.4
10°	812.5	811.4	810.9	809.9	809.9	808.3	808.8	809.4
12.5°	807.8	805.7	804.7	803.1	802.1	800.5	800.5	801.1
15°	809.9	806.8	803.6	802.6	801.6	800.5	799.5	800.0
17.5°	814.0	810.4	806.8	804.7	802.6	801.1	800.5	801.1
20°	822.8	817.6	811.9	808.3	804.2	803.1	801.6	803.1
22.5°	834.8	828.5	821.3	814.5	809.9	807.8	805.7	807.3
25°	849.3	842.5	835.3	827.5	822.3	820.8	818.2	818.2
27.5°	869.5	863.8	857.6	850.3	845.1	843.6	839.4	839.4
30°	901.6	895.9	890.2	884.0	878.8	877.3	872.1	872.1
32.5°	944.2	937.9	934.3	929.1	925.0	922.4	916.2	915.6
35°	1001.2	995.5	995.0	991.3	987.2	987.7	981.5	980.5
37.5°	1083.1	1078.4	1080.0	1076.9	1073.3	1076.4	1072.7	1072.7
40°	1187.8	1186.3	1187.8	1185.8	1186.3	1186.8	1183.7	1184.7
42.5°	1314.4	1310.2	1319.5	1318.5	1316.9	1321.1	1313.8	1308.7
45°	1460.0	1458.5	1467.8	1469.4	1466.3	1468.9	1455.9	1455.4
47.5°	1618.2	1618.2	1626.5	1625.4	1622.3	1622.9	1607.3	1597.4
50°	1783.1	1782.0	1790.3	1788.2	1784.1	1783.6	1767.5	1757.7
52.5°	1954.7	1954.7	1966.6	1960.9	1951.1	1946.4	1926.7	1913.7
55°	2144.4	2141.9	2145.5	2126.8	2107.6	2093.6	2069.3	2059.4
57.5°	2384.5	2354.4	2328.5	2304.7	2277.7	2261.1	2232.6	2222.2
60°	2725.1	2644.8	2610.0	2562.3	2517.8	2495.5	2457.6	2437.4
62.5°	3197.0	3063.7	2969.4	2864.1	2762.5	2690.9	2633.4	2608.0
65°	3742.4	3452.1	3212.0	2986.5	2795.1	2643.2	2558.7	2532.3
67.5°	3949.8	3416.8	3002.5	2679.0	2446.7	2265.8	2164.7	2143.4
68°	3905.7	3335.9	2905.6	2574.3	2340.9	2158.4	2057.9	2038.7
70°	3445.3	2814.3	2360.1	2030.4	1812.6	1638.9	1567.9	1537.3
72.5°	2348.7	1807.4	1386.4	1109.0	946.2	836.3	771.0	748.7
75°	1081.0	730.5	487.9	364.5	309.5	283.1	262.9	257.7
77.5°	315.2	229.2	197.0	182.5	171.6	162.3	155.5	155.0
80°	149.8	140.5	136.4	127.0	117.2	108.4	102.1	103.2
82.5°	100.6	98.0	98.0	88.7	73.1	62.7	51.8	46.7
85°	53.4	55.5	58.6	55.5	48.2	35.8	23.3	25.4
87.5°	18.1	20.7	21.8	21.3	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)