

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: P198663

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12832.9 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 111
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

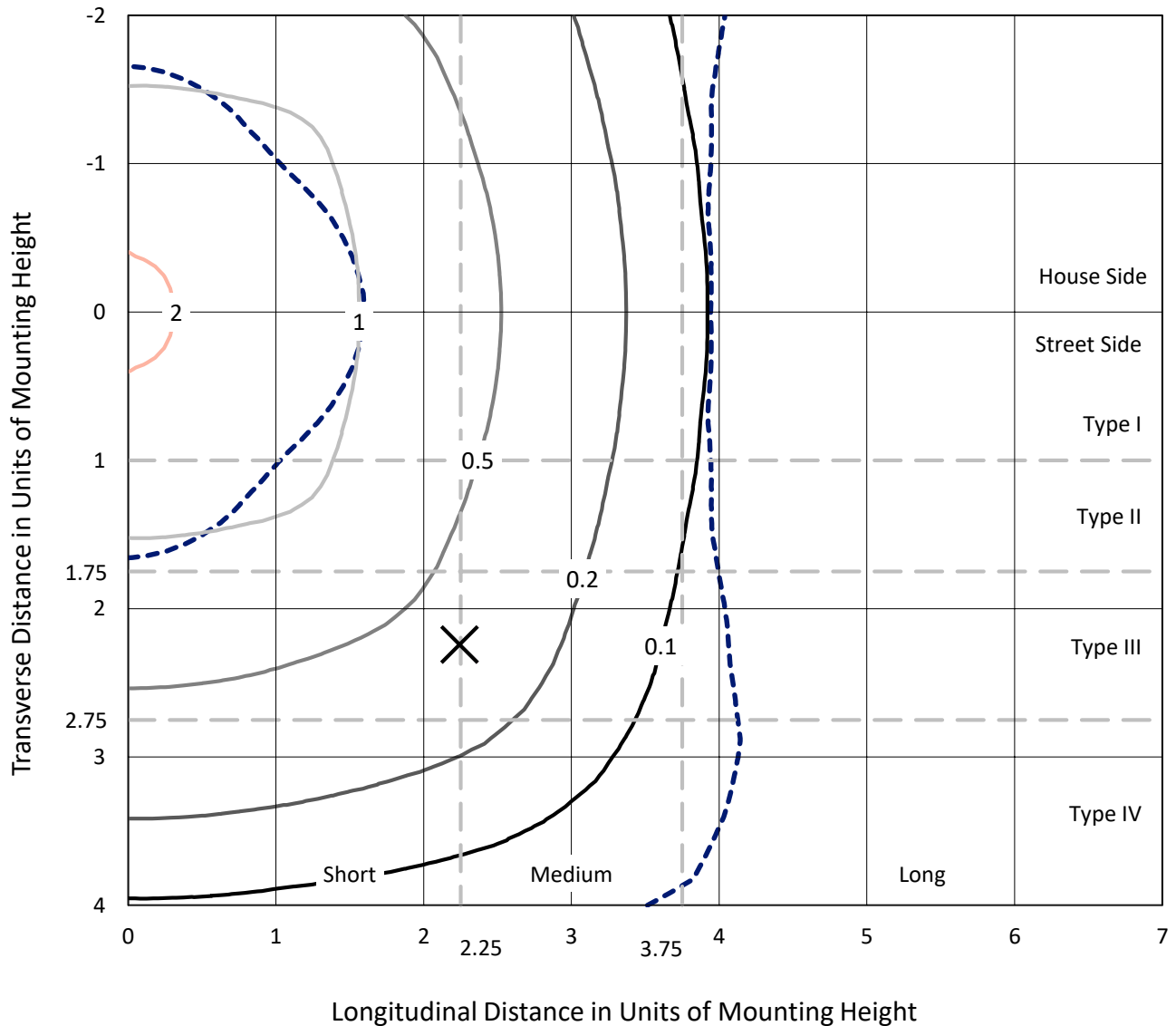


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

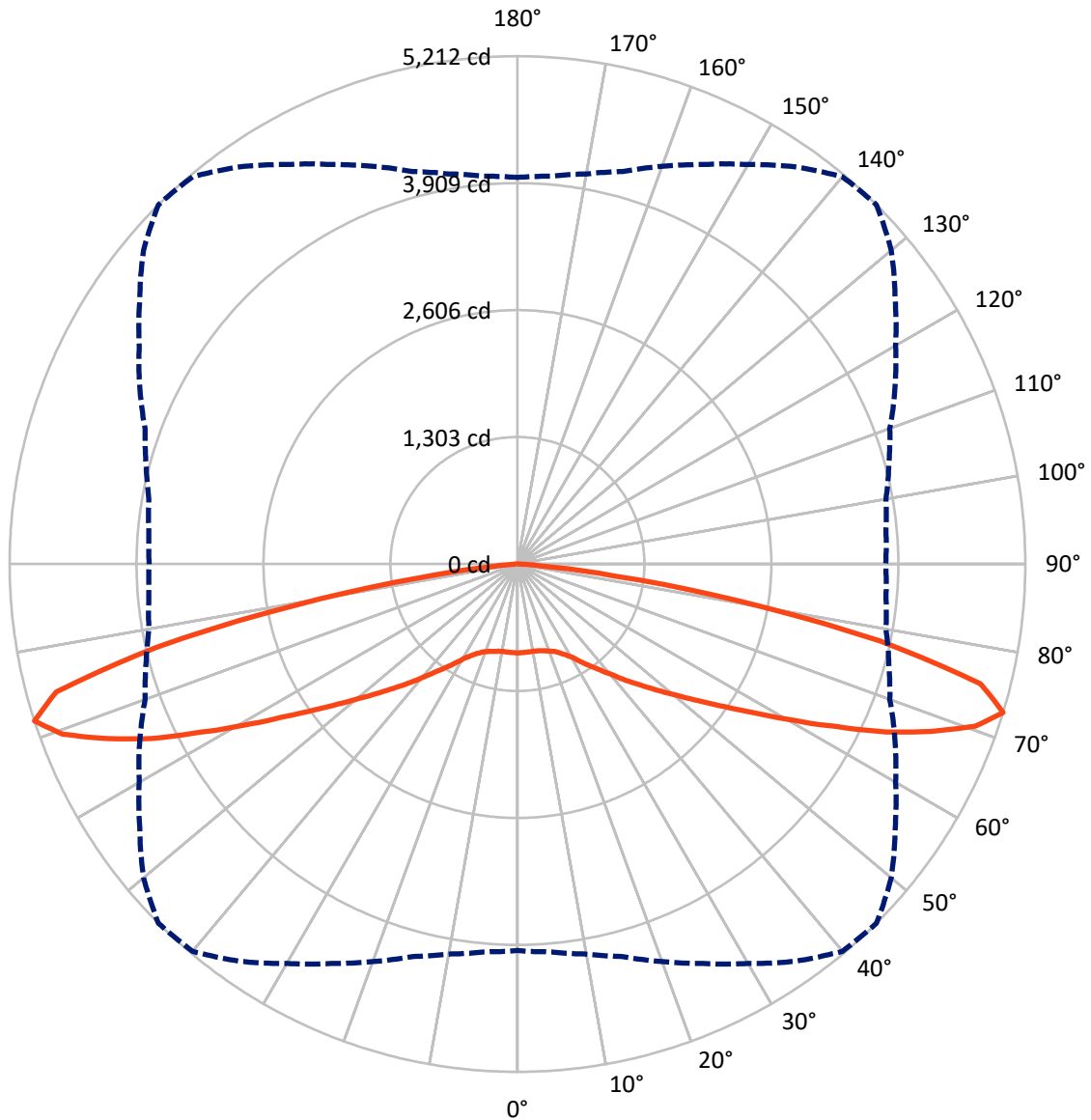


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6416.5	0.0	6416.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6416.5	0.0	6416.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12832.9	0.0	12832.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	0.7
10°-20°	263.5	2.1
20°-30°	475.8	3.7
30°-40°	811.5	6.3
40°-50°	1381.6	10.8
50°-60°	2223.5	17.3
60°-70°	3697.8	28.8
70°-80°	3577.2	27.9
80°-90°	314.8	2.5
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°	12832.9	100.0
0°-180°	12832.9	100.0



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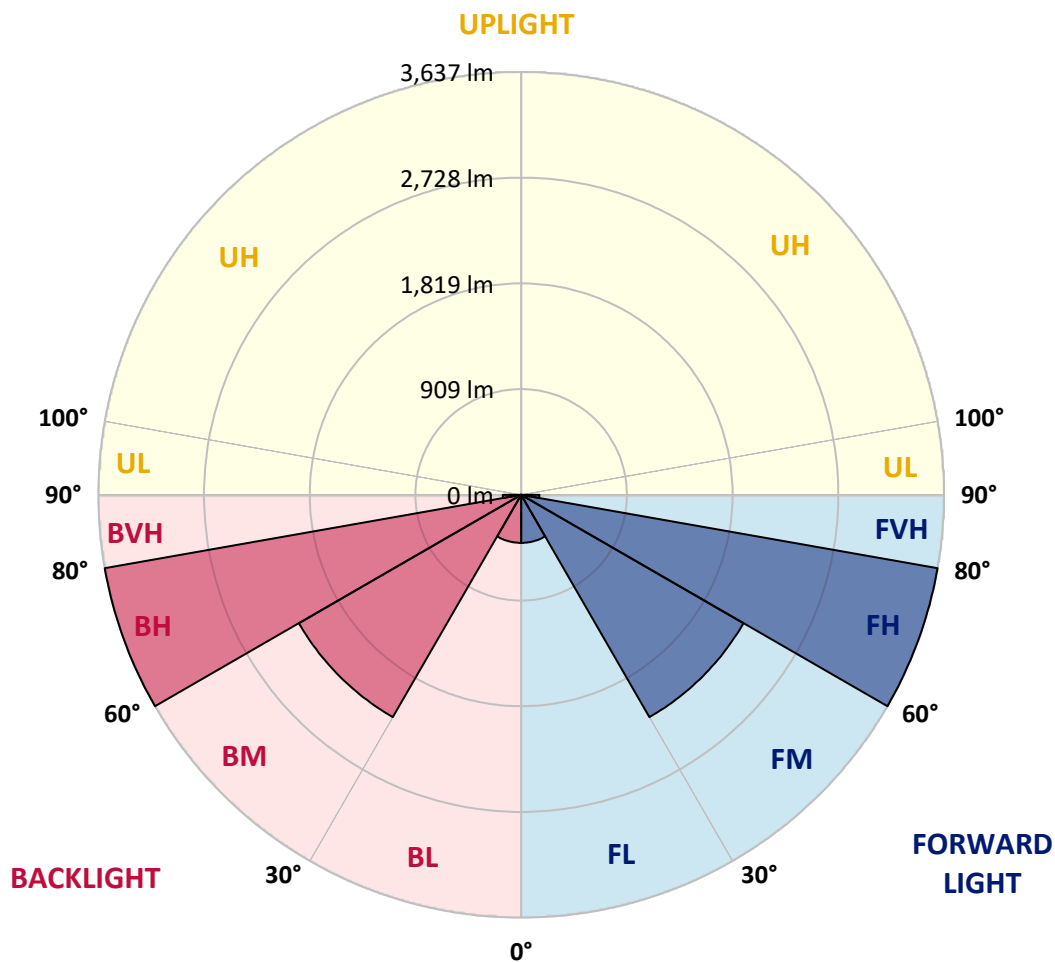
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.2	3.2			
FM	(30°-60°)	2208.4	17.2			
FH	(60°-80°)	3637.5	28.3			G2/5000
FVH	(80°-90°)	157.4	1.2			G2/225
BL	(0°-30°)	413.2	3.2	B1/500		
BM	(30°-60°)	2208.4	17.2	B2/2500		
BH	(60°-80°)	3637.5	28.3	B4/5000		G2/5000
BVH	(80°-90°)	157.4	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4
2.5°	919.4	919.4	920.2	919.4	917.9	917.1	914.7	913.1	911.6	910.7	909.2
5°	920.2	920.2	921.0	920.2	918.6	917.1	915.4	913.1	911.6	909.9	909.2
7.5°	923.4	924.1	925.0	924.1	921.0	919.4	917.1	914.7	911.6	909.9	908.4
10°	929.7	929.7	929.7	928.9	926.6	923.4	920.2	917.9	913.9	909.9	907.6
12.5°	934.5	935.2	935.2	933.6	930.5	926.6	923.4	921.0	917.9	914.7	912.4
15°	941.5	941.5	940.8	937.6	932.8	929.7	928.1	927.3	926.6	925.0	922.6
17.5°	955.7	955.0	952.6	947.9	942.3	940.0	938.4	938.4	938.4	937.6	936.0
20°	976.3	976.3	973.1	965.3	960.6	958.1	955.7	955.7	955.7	953.4	951.0
22.5°	1009.4	1010.3	1005.6	996.0	989.7	985.0	981.8	979.5	977.1	975.5	971.6
25°	1054.5	1053.7	1048.2	1036.4	1031.6	1026.8	1020.5	1016.6	1013.4	1011.1	1006.3
27.5°	1101.9	1101.1	1094.8	1084.5	1081.4	1074.2	1069.5	1064.0	1060.1	1056.1	1051.4
30°	1162.7	1158.8	1154.0	1146.1	1144.6	1139.1	1132.7	1124.8	1118.5	1112.2	1106.6
32.5°	1217.2	1217.2	1210.2	1206.2	1209.3	1207.0	1207.7	1203.0	1199.1	1196.6	1191.1
35°	1293.0	1293.0	1289.9	1285.1	1286.0	1280.4	1279.6	1280.4	1283.6	1283.6	1277.3
37.5°	1394.2	1395.7	1385.5	1383.8	1380.0	1372.1	1368.1	1369.6	1376.8	1380.8	1372.1
40°	1519.8	1522.9	1519.8	1509.5	1504.8	1491.4	1483.4	1483.4	1488.9	1492.9	1489.7
42.5°	1643.8	1649.3	1643.8	1635.9	1631.9	1621.7	1617.7	1620.9	1627.9	1632.7	1627.9
45°	1782.0	1786.0	1778.8	1769.4	1764.6	1759.1	1756.7	1759.1	1766.9	1771.8	1770.1
47.5°	1917.8	1923.4	1914.7	1910.8	1910.8	1905.2	1911.5	1917.8	1925.0	1936.0	1931.3
50°	2050.6	2057.7	2052.1	2053.0	2059.2	2069.5	2081.4	2094.0	2106.7	2118.5	2120.1
52.5°	2169.1	2180.1	2180.9	2195.2	2214.9	2230.6	2263.8	2291.5	2321.5	2331.7	2327.0
55°	2293.9	2308.9	2328.6	2350.7	2382.4	2414.7	2470.7	2520.6	2560.0	2584.5	2580.6
57.5°	2472.4	2487.4	2507.9	2544.3	2591.6	2635.8	2712.5	2789.9	2849.9	2887.1	2868.9
60°	2703.8	2719.6	2746.4	2785.2	2846.8	2906.8	3011.9	3123.3	3216.5	3259.1	3225.9
62.5°	3010.2	3025.3	3042.7	3094.0	3162.8	3240.1	3372.1	3515.1	3633.5	3674.5	3628.0
65°	3447.0	3465.2	3470.8	3512.6	3579.8	3651.6	3793.8	3955.0	4090.1	4157.2	4064.0
67.5°	3939.2	3946.3	3968.4	4017.4	4086.1	4150.8	4263.0	4415.5	4545.1	4582.2	4482.7
70°	4227.4	4241.7	4280.4	4348.4	4430.5	4532.4	4654.8	4819.1	4966.0	4983.4	4857.1
72.5°	3966.8	3996.1	4064.8	4170.7	4342.8	4523.7	4734.6	4977.1	5188.0	5212.4	5009.5
75°	3181.7	3214.8	3297.0	3413.1	3616.9	3885.5	4190.4	4554.5	4870.5	4910.8	4642.2
77.5°	1695.8	1737.0	1856.2	2012.7	2303.3	2658.8	3026.1	3441.5	3710.1	3801.0	3607.4
80°	427.3	449.5	507.1	598.7	795.4	1082.2	1398.9	1846.0	2179.3	2320.7	2179.3
82.5°	165.9	182.5	198.2	209.3	228.3	267.8	369.7	602.7	812.0	1000.0	865.7
85°	63.9	67.9	97.9	111.4	111.4	122.4	140.6	165.9	205.4	224.3	188.0
87.5°	25.3	27.6	34.0	52.2	53.7	47.4	50.5	56.9	43.5	36.3	41.1
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°	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4
2.5°	908.4	907.6	906.0	906.8	906.0	906.0	906.0	906.0
5°	907.6	907.6	906.0	906.0	906.0	906.8	906.0	906.0
7.5°	906.8	906.0	904.4	903.7	903.7	902.9	902.9	902.9
10°	905.2	903.7	902.0	901.2	901.2	899.7	899.7	899.7
12.5°	909.2	906.8	905.2	904.4	904.4	904.4	905.2	905.2
15°	920.2	915.4	913.1	912.4	913.1	914.7	915.4	916.3
17.5°	932.1	927.3	923.4	921.8	922.6	925.0	927.3	928.9
20°	947.0	943.2	938.4	936.8	936.8	940.0	941.5	943.9
22.5°	968.4	965.3	961.3	958.9	957.4	961.3	963.6	965.3
25°	1002.4	999.2	996.0	993.7	992.9	996.9	998.4	999.2
27.5°	1047.4	1044.2	1042.7	1041.9	1039.5	1041.1	1043.4	1042.7
30°	1105.8	1108.3	1105.8	1105.8	1101.9	1103.5	1101.9	1100.3
32.5°	1184.1	1181.7	1174.6	1169.8	1164.3	1164.3	1162.0	1159.5
35°	1262.2	1254.3	1250.4	1252.8	1250.4	1252.0	1248.0	1244.1
37.5°	1354.7	1349.9	1349.2	1356.2	1354.7	1356.2	1356.2	1350.7
40°	1477.1	1474.0	1479.5	1491.4	1496.1	1495.2	1496.9	1489.7
42.5°	1617.7	1612.2	1614.5	1624.9	1630.4	1631.9	1631.1	1624.9
45°	1758.2	1759.9	1759.9	1770.9	1776.5	1779.6	1774.1	1771.8
47.5°	1917.1	1919.5	1913.9	1921.0	1922.6	1928.2	1923.4	1919.5
50°	2100.3	2091.6	2078.9	2081.4	2081.4	2079.8	2074.2	2069.5
52.5°	2304.9	2285.2	2261.4	2253.6	2244.9	2236.2	2225.1	2216.4
55°	2537.9	2504.0	2461.3	2441.6	2425.0	2405.3	2379.9	2371.3
57.5°	2808.1	2749.6	2692.7	2657.2	2614.6	2588.5	2556.0	2554.5
60°	3128.8	3049.7	2949.5	2896.5	2853.8	2823.0	2798.6	2789.1
62.5°	3499.2	3363.4	3255.1	3198.3	3148.5	3129.5	3098.7	3102.7
65°	3879.1	3740.9	3635.9	3590.0	3543.5	3530.8	3502.4	3512.6
67.5°	4290.7	4176.9	4061.6	4019.0	3976.3	3963.6	3934.5	3943.2
70°	4659.5	4515.0	4383.9	4300.2	4227.4	4169.0	4131.9	4116.9
72.5°	4733.0	4482.7	4276.4	4067.2	3946.3	3840.5	3797.0	3780.4
75°	4252.8	3864.2	3570.3	3324.7	3188.7	3034.8	3018.2	2995.3
77.5°	3308.0	2865.7	2510.3	2194.3	2011.8	1823.8	1759.1	1710.1
80°	1973.2	1516.6	1175.4	823.9	672.2	541.0	508.7	474.8
82.5°	706.1	452.7	304.9	237.7	212.5	195.9	183.2	166.6
85°	170.6	143.7	135.8	123.3	121.6	103.5	73.4	65.6
87.5°	54.5	49.7	50.5	48.2	50.5	38.0	30.8	27.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)