

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: P198485

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198485
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-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 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: 9185 lumens
Efficiency: N/A
Efficacy: 108.1 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

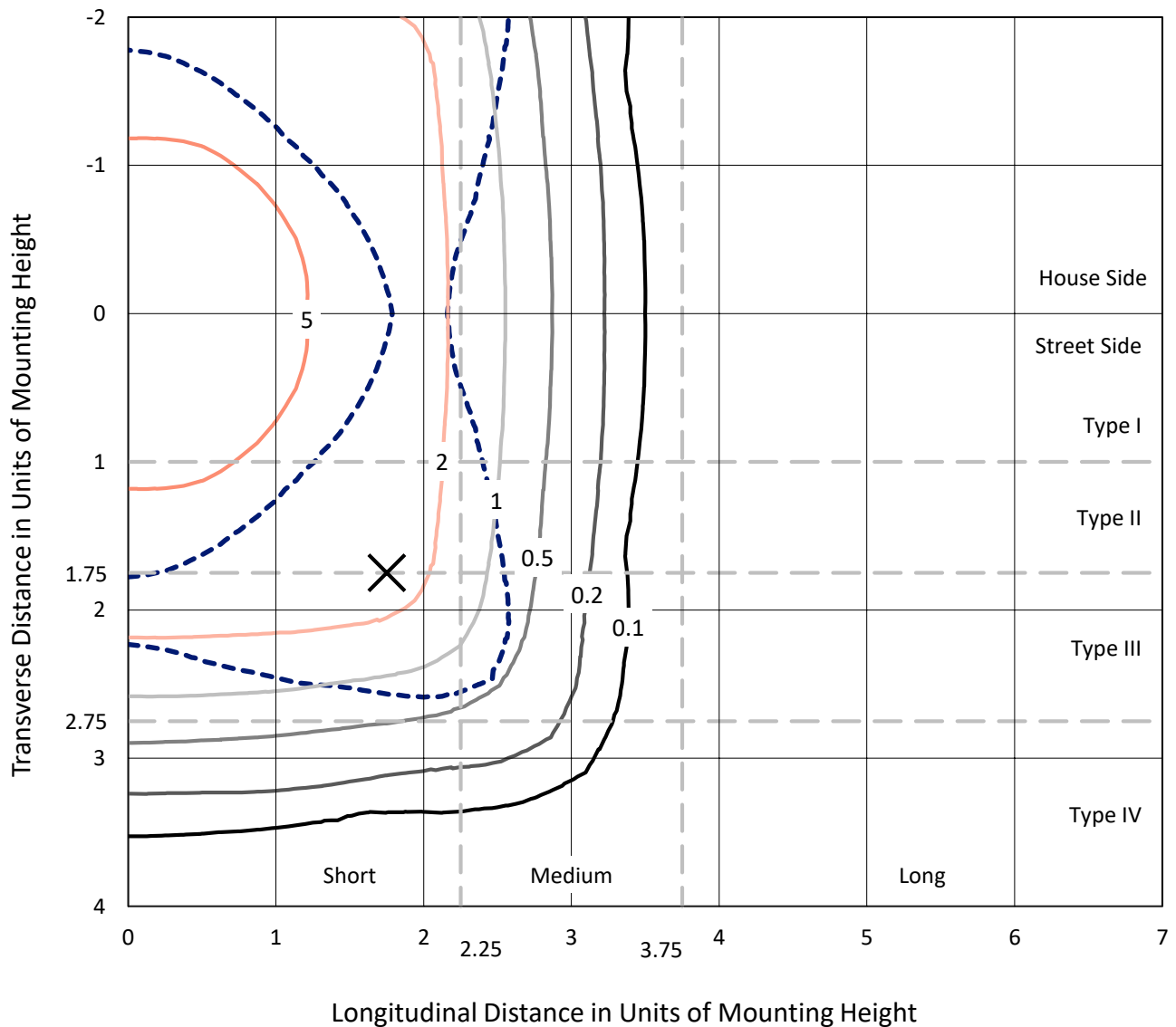


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Iso-Footcandle Lines of Horizontal Illumination

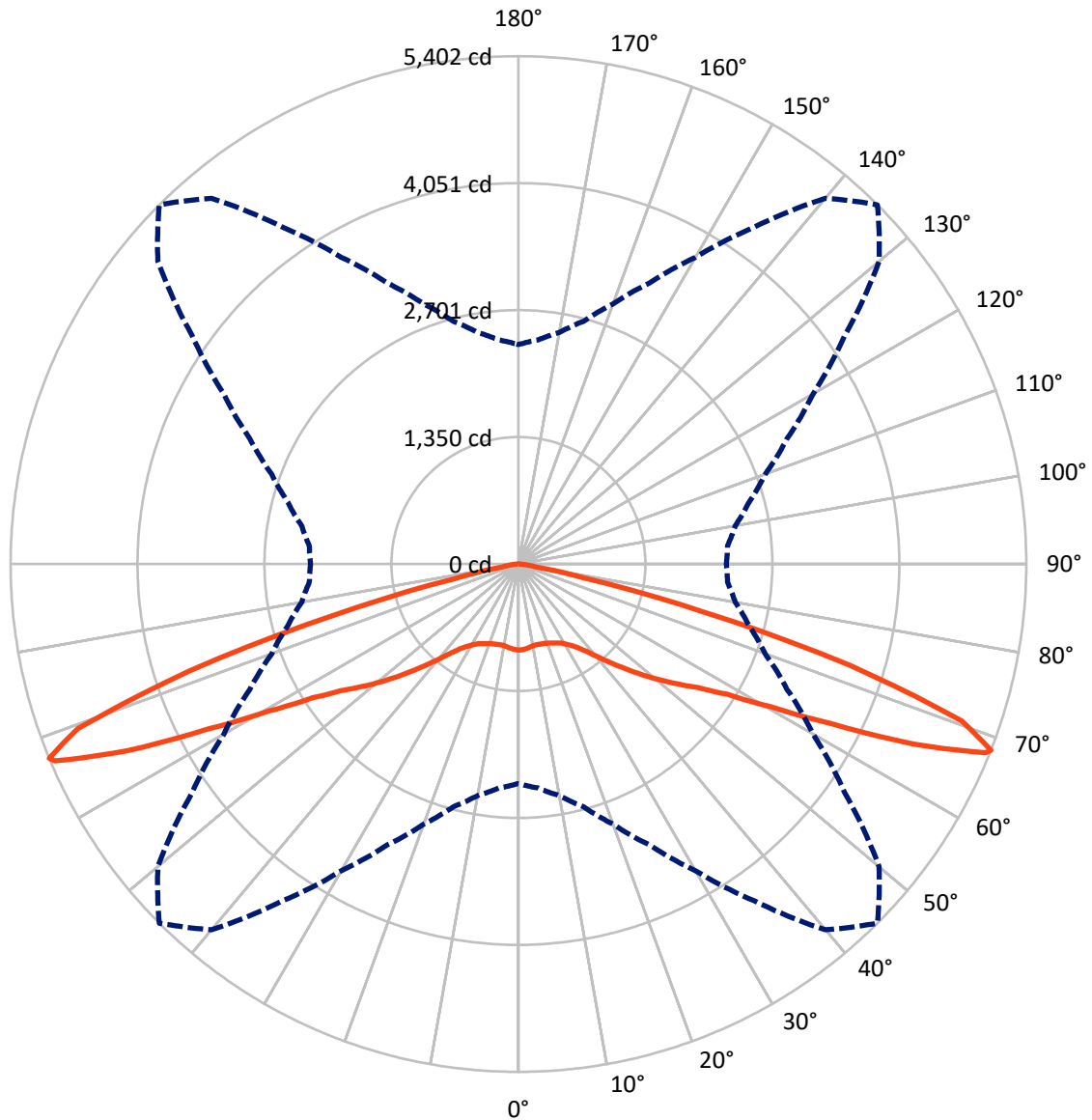
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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	4592.5	0.0	4592.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4592.5	0.0	4592.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9185.0	0.0	9185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	0.9
10°-20°	248.6	2.7
20°-30°	422.7	4.6
30°-40°	691.8	7.5
40°-50°	1236.3	13.5
50°-60°	2087.9	22.7
60°-70°	3237.6	35.2
70°-80°	1113.2	12.1
80°-90°	61.2	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°	9185.0	100.0
0°-180°	9185.0	100.0

Coefficient of Utilization



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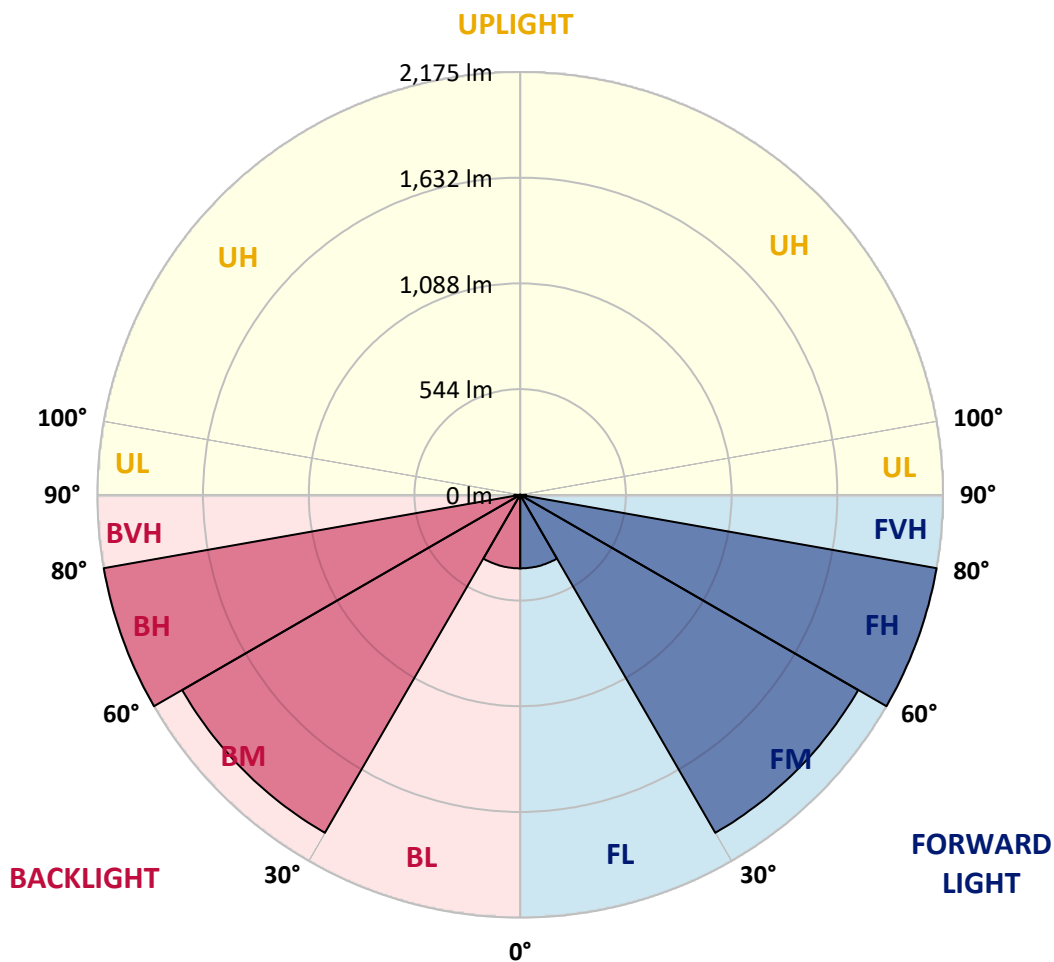
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.5	4.1			
FM	(30°-60°)	2008.0	21.9			
FH	(60°-80°)	2175.4	23.7			G2/5000
FVH	(80°-90°)	30.6	0.3			G1/100
BL	(0°-30°)	378.5	4.1	B1/500		
BM	(30°-60°)	2008.0	21.9	B2/2500		
BH	(60°-80°)	2175.4	23.7	B3/2500		G2/5000
BVH	(80°-90°)	30.6	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°	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2
2.5°	920.2	920.2	921.3	920.7	919.0	917.4	915.7	914.0	912.9	911.7	910.6
5°	910.6	910.6	912.3	911.2	910.0	908.4	907.2	905.5	904.4	903.3	903.9
7.5°	898.2	899.4	900.5	899.9	897.7	897.1	895.4	894.9	893.7	892.0	892.6
10°	887.5	888.1	889.2	888.7	888.1	886.4	885.9	885.3	884.7	882.5	881.9
12.5°	876.9	878.0	879.1	879.7	879.1	879.7	880.2	880.8	880.2	879.1	879.1
15°	868.4	869.5	871.2	872.9	873.5	876.9	879.1	881.4	883.0	883.6	881.9
17.5°	863.9	865.6	867.9	871.2	874.0	878.0	881.9	885.3	888.1	888.7	887.0
20°	863.4	865.0	868.4	872.4	877.4	882.5	888.7	893.7	896.5	898.2	896.5
22.5°	867.3	869.5	874.0	879.1	885.3	892.0	899.9	905.5	911.2	913.4	911.7
25°	878.5	880.8	885.9	892.0	898.8	907.2	915.1	922.4	928.0	930.9	928.6
27.5°	902.2	902.7	908.4	915.1	923.0	930.3	940.4	943.8	948.3	951.1	948.3
30°	935.4	936.5	941.5	952.2	959.5	969.1	974.7	978.1	983.2	986.0	982.6
32.5°	986.0	987.1	991.6	1001.7	1008.5	1015.8	1022.5	1024.8	1029.8	1033.2	1029.3
35°	1057.4	1059.7	1063.6	1070.3	1076.0	1081.6	1086.7	1085.0	1088.3	1092.8	1088.9
37.5°	1155.3	1154.7	1155.8	1160.9	1166.5	1169.9	1177.8	1173.8	1177.2	1181.1	1178.9
40°	1269.4	1269.4	1268.9	1277.9	1280.1	1283.5	1291.9	1286.9	1291.4	1295.9	1291.9
42.5°	1399.4	1401.6	1404.4	1411.7	1417.9	1419.1	1423.0	1420.7	1426.4	1430.3	1426.4
45°	1549.0	1552.4	1555.7	1572.6	1575.4	1577.7	1580.5	1573.2	1579.4	1582.7	1581.6
47.5°	1704.2	1710.4	1717.7	1735.2	1746.4	1751.5	1753.7	1745.3	1745.8	1750.9	1751.5
50°	1879.7	1886.5	1893.8	1913.5	1924.1	1933.1	1936.0	1926.4	1927.5	1931.5	1932.6
52.5°	2041.7	2049.6	2065.3	2091.8	2106.9	2122.7	2123.8	2112.0	2117.1	2119.9	2117.6
55°	2194.1	2204.2	2225.1	2260.5	2288.0	2319.0	2333.0	2320.1	2320.1	2317.9	2316.7
57.5°	2371.9	2383.1	2404.5	2445.5	2483.8	2528.2	2566.5	2579.4	2603.0	2610.9	2598.5
60°	2639.6	2651.4	2673.3	2727.3	2775.7	2840.4	2903.4	2954.5	3037.8	3082.8	3042.3
62.5°	2884.2	2902.2	2954.0	3048.5	3153.1	3272.9	3411.8	3510.8	3662.1	3737.5	3635.7
65°	2828.6	2865.1	2966.4	3114.8	3330.8	3590.7	3873.6	4145.3	4458.0	4618.3	4411.3
67.5°	2470.8	2501.8	2610.9	2783.6	3053.0	3411.3	3851.1	4413.5	5058.7	5359.0	4992.9
68°	2334.2	2392.1	2500.7	2672.2	2943.9	3296.0	3765.6	4373.0	5077.2	5401.8	5006.4
70°	1789.7	1810.5	1914.6	2068.7	2361.7	2707.1	3181.2	3873.6	4669.5	5003.6	4596.9
72.5°	850.4	862.8	930.3	1082.2	1268.3	1549.5	1968.0	2621.0	3338.1	3685.7	3280.2
75°	311.6	314.4	330.2	366.2	435.9	541.6	742.4	1148.5	1700.3	2027.6	1707.0
77.5°	168.2	168.7	174.9	183.9	196.3	210.4	240.7	322.8	520.8	708.7	550.1
80°	105.7	105.2	111.4	118.7	127.1	133.9	136.7	146.2	164.8	192.9	177.2
82.5°	54.0	59.1	73.1	81.0	93.4	95.6	92.8	92.2	97.9	105.7	109.1
85°	29.8	26.4	38.8	51.7	56.2	57.9	58.5	55.1	54.0	52.9	55.7
87.5°	15.2	14.1	16.9	25.9	27.6	22.5	23.1	19.7	13.5	13.5	14.1
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°	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2
2.5°	909.5	910.0	908.9	908.9	908.9	909.5	908.9	908.4
5°	902.2	903.3	903.3	903.9	904.4	904.4	904.4	904.4
7.5°	891.5	892.0	893.2	893.2	893.2	893.2	893.2	893.2
10°	881.4	880.2	879.7	878.5	878.5	876.9	877.4	878.0
12.5°	876.3	874.0	872.9	871.2	870.1	868.4	868.4	869.0
15°	878.5	875.2	871.8	870.7	869.5	868.4	867.3	867.9
17.5°	883.0	879.1	875.2	872.9	870.7	869.0	868.4	869.0
20°	892.6	887.0	880.8	876.9	872.4	871.2	869.5	871.2
22.5°	905.5	898.8	890.9	883.6	878.5	876.3	874.0	875.7
25°	921.3	914.0	906.1	897.7	892.0	890.4	887.5	887.5
27.5°	943.2	937.0	930.3	922.4	916.8	915.1	910.6	910.6
30°	978.1	971.9	965.7	959.0	953.4	951.7	946.0	946.0
32.5°	1024.2	1017.5	1013.5	1007.9	1003.4	1000.6	993.8	993.3
35°	1086.1	1079.9	1079.3	1075.4	1070.9	1071.5	1064.7	1063.6
37.5°	1175.0	1169.9	1171.6	1168.2	1164.3	1167.6	1163.7	1163.7
40°	1288.6	1286.9	1288.6	1286.3	1286.9	1287.4	1284.1	1285.2
42.5°	1425.8	1421.3	1431.4	1430.3	1428.6	1433.1	1425.2	1419.6
45°	1583.9	1582.2	1592.3	1594.0	1590.6	1593.4	1579.4	1578.8
47.5°	1755.4	1755.4	1764.4	1763.3	1759.9	1760.5	1743.6	1732.9
50°	1934.3	1933.1	1942.1	1939.9	1935.4	1934.8	1917.4	1906.7
52.5°	2120.4	2120.4	2133.4	2127.2	2116.5	2111.4	2090.1	2076.0
55°	2326.3	2323.5	2327.4	2307.2	2286.4	2271.2	2244.7	2234.1
57.5°	2586.7	2554.1	2526.0	2500.1	2470.8	2452.8	2421.9	2410.7
60°	2956.2	2869.1	2831.4	2779.6	2731.3	2707.1	2666.0	2644.1
62.5°	3468.1	3323.5	3221.2	3107.0	2996.7	2919.1	2856.7	2829.1
65°	4059.8	3744.8	3484.4	3239.7	3032.2	2867.4	2775.7	2747.0
67.5°	4284.7	3706.5	3257.1	2906.2	2654.2	2457.9	2348.2	2325.2
68°	4236.9	3618.8	3152.0	2792.6	2539.5	2341.5	2232.4	2211.6
70°	3737.5	3053.0	2560.3	2202.6	1966.3	1777.9	1700.8	1667.7
72.5°	2547.9	1960.7	1504.0	1203.1	1026.5	907.2	836.4	812.2
75°	1172.7	792.5	529.3	395.4	335.8	307.1	285.2	279.5
77.5°	342.0	248.6	213.7	198.0	186.2	176.0	168.7	168.2
80°	162.5	152.4	147.9	137.8	127.1	117.6	110.8	111.9
82.5°	109.1	106.3	106.3	96.2	79.3	68.1	56.2	50.6
85°	57.9	60.2	63.6	60.2	52.3	38.8	25.3	27.6
87.5°	19.7	22.5	23.6	23.1	20.8	15.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)