

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: P198493

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198493
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-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8866 lumens
Efficiency: N/A
Efficacy: 104.3 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

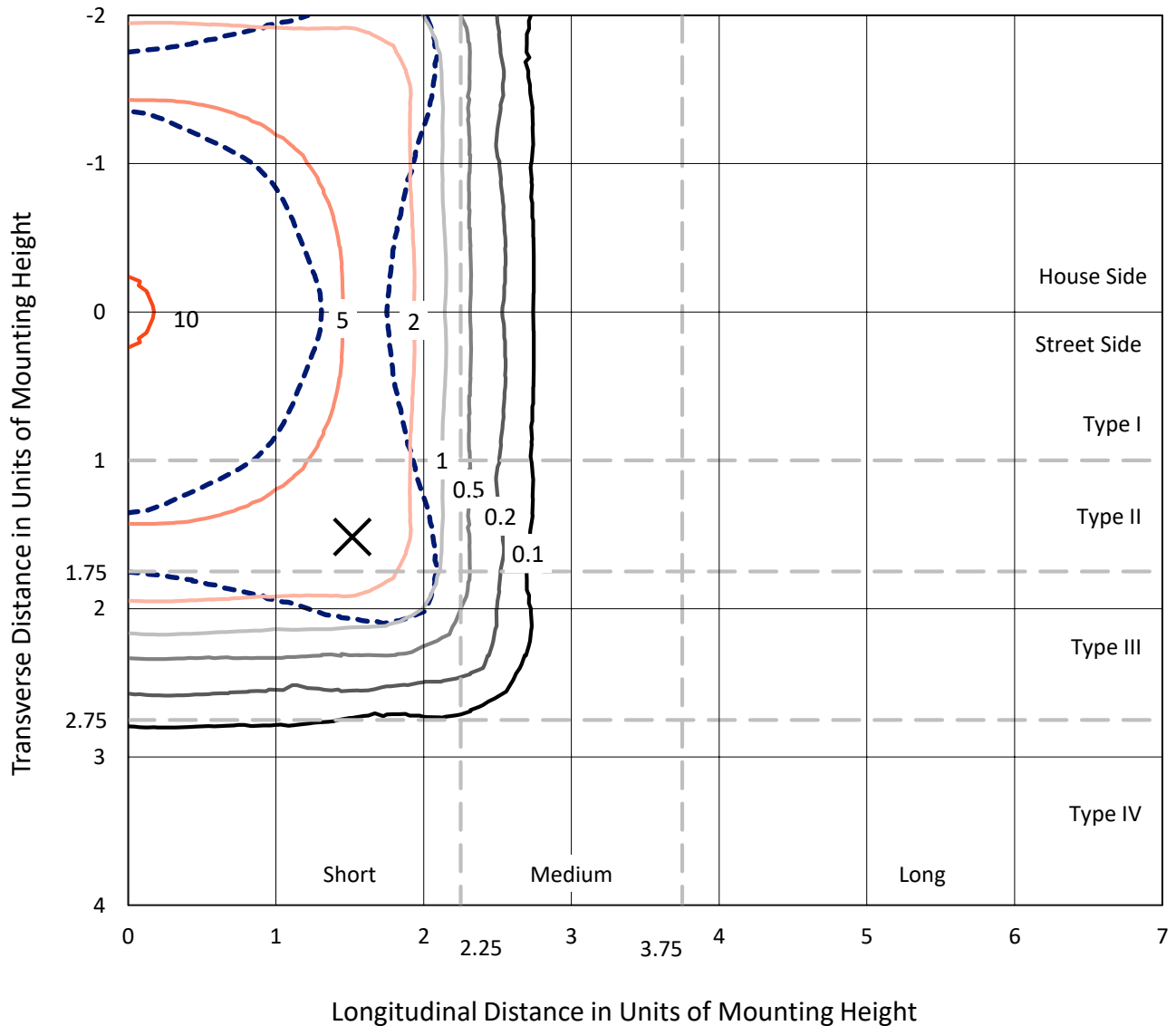
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

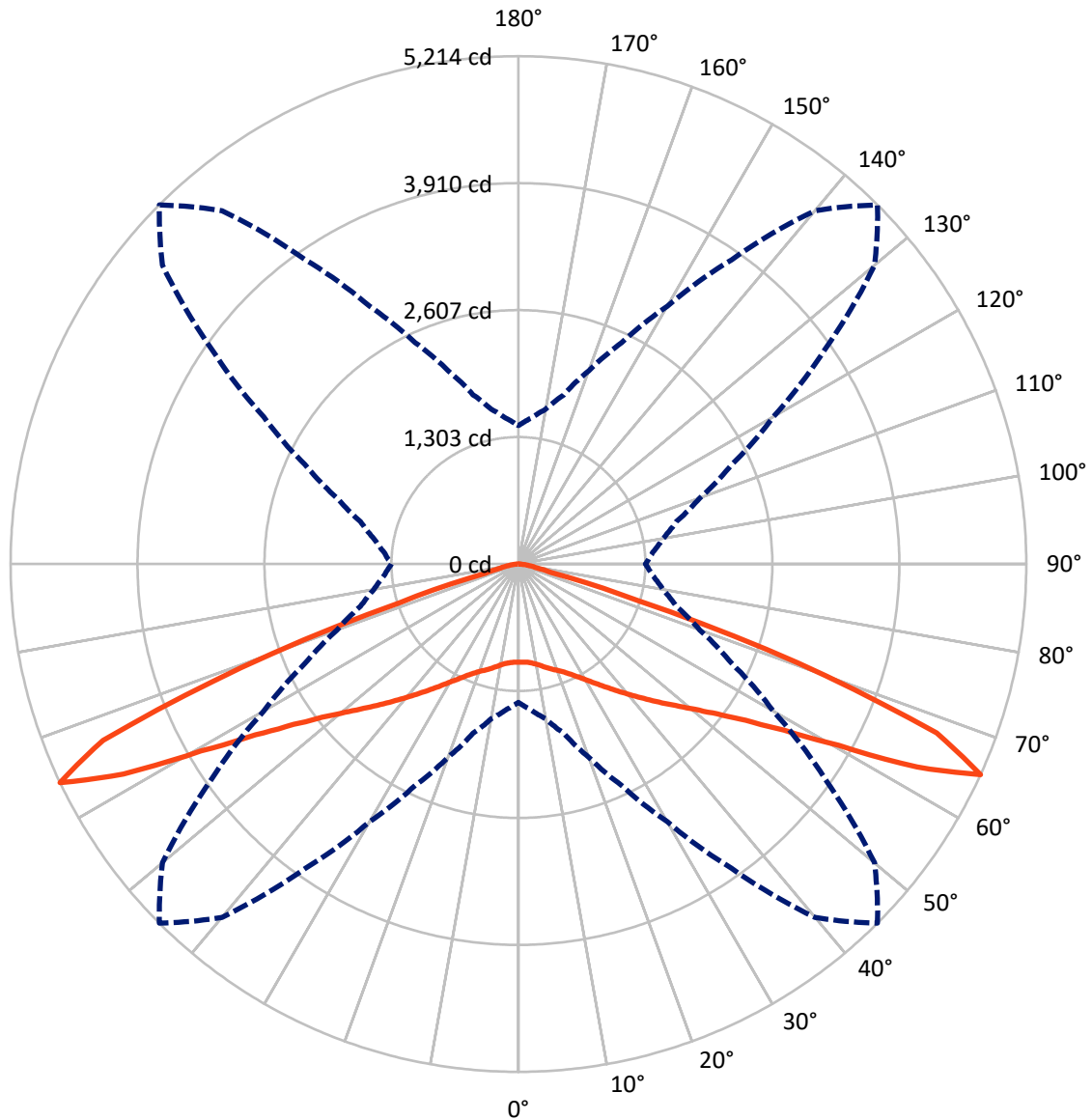
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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	4433.0	0.0	4433.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4433.0	0.0	4433.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8866.0	0.0	8866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	1.1
10°-20°	314.8	3.6
20°-30°	587.2	6.6
30°-40°	990.1	11.2
40°-50°	1608.2	18.1
50°-60°	2519.7	28.4
60°-70°	2378.5	26.8
70°-80°	320.6	3.6
80°-90°	48.8	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°	8866.0	100.0
0°-180°	8866.0	100.0

Coefficient of Utilization



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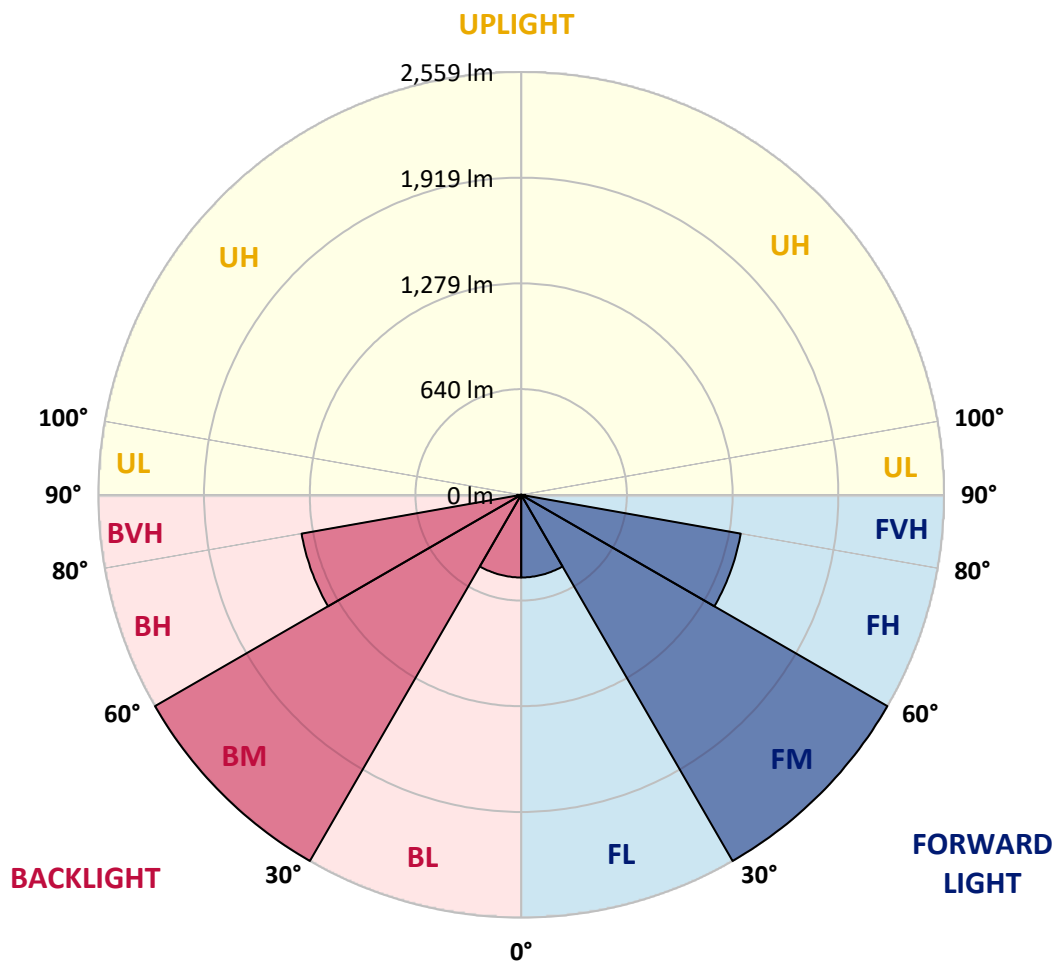
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.1	5.6			
FM	(30°-60°)	2559.0	28.9			
FH	(60°-80°)	1349.5	15.2			G1/1800
FVH	(80°-90°)	24.4	0.3			G1/100
BL	(0°-30°)	500.1	5.6	B2/1000		
BM	(30°-60°)	2559.0	28.9	B3/5000		
BH	(60°-80°)	1349.5	15.2	B3/2500		G1/1800
BVH	(80°-90°)	24.4	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°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1016.8	1016.8	1018.4	1017.9	1015.7	1014.0	1012.4	1010.2	1009.0	1007.9	1007.4
5°	1022.3	1022.3	1024.0	1023.4	1021.8	1019.5	1018.4	1016.8	1015.1	1014.0	1014.6
7.5°	1036.1	1036.7	1037.2	1036.7	1035.0	1033.4	1031.1	1030.6	1028.4	1026.7	1027.8
10°	1057.1	1057.1	1057.7	1058.2	1057.1	1053.2	1053.2	1052.1	1049.9	1047.7	1048.3
12.5°	1080.3	1080.3	1080.8	1080.8	1080.8	1078.6	1079.2	1078.6	1075.9	1074.8	1075.9
15°	1102.9	1103.5	1103.5	1104.6	1104.6	1105.1	1107.4	1107.4	1106.3	1105.7	1105.7
17.5°	1129.5	1130.6	1131.1	1132.8	1133.3	1134.4	1136.6	1137.2	1137.7	1136.1	1136.6
20°	1164.8	1165.3	1167.0	1167.6	1169.8	1169.8	1170.9	1170.3	1169.2	1167.0	1167.0
22.5°	1204.6	1205.7	1209.0	1209.0	1211.7	1210.1	1210.6	1209.0	1206.2	1205.1	1204.0
25°	1256.5	1258.1	1260.9	1259.8	1260.9	1258.1	1258.1	1258.1	1256.5	1254.8	1254.3
27.5°	1322.2	1319.4	1322.2	1320.0	1319.4	1317.2	1317.8	1316.7	1315.0	1314.5	1312.3
30°	1390.7	1387.4	1389.0	1389.6	1388.5	1387.9	1385.7	1384.1	1381.3	1381.9	1380.2
32.5°	1469.1	1465.8	1467.5	1468.0	1466.9	1468.0	1467.5	1463.6	1460.3	1462.5	1462.5
35°	1562.5	1560.2	1564.7	1566.3	1563.0	1561.3	1559.1	1554.7	1549.7	1553.1	1553.6
37.5°	1674.6	1671.8	1675.1	1679.5	1673.5	1670.2	1661.3	1654.7	1651.4	1653.0	1655.2
40°	1791.1	1791.7	1801.0	1802.1	1795.5	1791.7	1782.8	1772.9	1763.5	1763.5	1766.3
42.5°	1913.7	1915.4	1926.4	1930.3	1928.1	1920.9	1908.7	1896.6	1884.4	1886.7	1890.0
45°	2052.3	2050.1	2061.7	2071.1	2069.5	2067.3	2055.7	2033.6	2022.5	2022.0	2027.5
47.5°	2198.1	2202.6	2214.7	2230.7	2230.2	2224.7	2209.7	2189.3	2168.9	2170.5	2177.2
50°	2368.3	2374.3	2394.8	2410.8	2413.0	2411.3	2393.7	2369.9	2341.2	2342.8	2351.7
52.5°	2520.7	2529.5	2553.3	2586.4	2606.8	2616.2	2604.6	2582.5	2553.3	2554.9	2564.3
55°	2658.8	2672.6	2707.9	2753.2	2794.1	2832.2	2849.3	2848.8	2827.2	2832.2	2844.3
57.5°	2745.5	2764.8	2818.4	2891.3	2972.5	3049.2	3115.5	3177.9	3191.7	3217.7	3217.7
60°	2628.9	2674.2	2745.5	2870.3	3029.9	3202.2	3388.9	3570.6	3687.7	3779.9	3730.2
62.5°	2195.4	2262.2	2362.2	2526.8	2775.3	3082.9	3457.9	3880.4	4321.2	4590.7	4393.0
65°	1420.5	1504.5	1613.3	1798.3	2111.4	2507.4	3053.7	3813.1	4735.4	5213.7	4771.9
67.5°	562.8	619.7	686.0	817.4	1089.1	1478.0	2091.0	3027.7	4181.5	4632.7	4137.3
70°	269.0	278.4	291.1	319.2	387.2	522.5	840.0	1491.8	2564.3	3039.9	2503.0
72.5°	194.4	196.1	202.1	211.5	231.4	259.0	314.8	456.2	884.2	1285.8	885.3
75°	147.5	149.7	153.0	158.0	168.5	181.7	202.7	243.0	302.7	349.1	302.1
77.5°	112.1	114.3	117.1	122.1	127.6	137.0	144.7	160.7	186.1	196.1	195.0
80°	81.7	85.6	90.0	94.4	98.3	102.7	103.3	111.0	125.4	134.8	132.0
82.5°	51.9	55.2	66.8	71.8	72.4	73.5	72.9	73.5	81.2	87.8	85.6
85°	33.1	35.3	41.4	46.9	45.8	48.0	48.0	46.9	43.6	37.6	44.7
87.5°	16.6	17.1	19.9	24.9	23.7	21.0	20.4	20.4	14.9	12.7	13.8
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°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1005.7	1006.8	1005.2	1005.2	1004.6	1005.7	1004.1	1004.1
5°	1013.5	1015.1	1014.6	1014.6	1015.7	1016.8	1016.2	1015.7
7.5°	1027.3	1028.4	1029.5	1030.0	1031.1	1030.6	1031.7	1031.1
10°	1048.3	1047.2	1048.8	1047.2	1047.7	1046.6	1047.2	1047.2
12.5°	1074.8	1073.1	1072.0	1070.9	1070.9	1068.7	1068.7	1069.2
15°	1105.1	1102.4	1100.2	1099.1	1098.0	1098.0	1096.3	1097.4
17.5°	1135.0	1132.2	1128.3	1128.3	1126.7	1125.6	1124.5	1127.2
20°	1166.5	1163.7	1161.5	1160.9	1157.6	1156.5	1157.1	1160.4
22.5°	1202.9	1201.2	1201.2	1200.1	1197.9	1196.3	1196.3	1200.1
25°	1252.1	1248.7	1249.3	1249.9	1248.7	1248.7	1247.6	1250.4
27.5°	1312.3	1309.5	1311.2	1312.3	1311.2	1312.8	1311.2	1313.4
30°	1383.0	1381.3	1383.0	1384.6	1381.9	1381.9	1380.7	1382.4
32.5°	1467.5	1465.2	1466.4	1466.4	1462.5	1459.2	1454.8	1458.1
35°	1560.2	1557.5	1559.7	1561.3	1556.9	1553.6	1547.0	1549.7
37.5°	1662.4	1663.5	1666.3	1673.5	1672.4	1666.8	1661.9	1664.1
40°	1776.7	1782.3	1794.4	1799.4	1798.3	1792.8	1786.1	1787.2
42.5°	1906.0	1913.2	1925.9	1934.1	1930.3	1922.6	1914.3	1917.6
45°	2046.8	2057.9	2074.4	2082.7	2077.7	2069.5	2057.9	2063.9
47.5°	2195.9	2218.0	2240.1	2251.2	2249.5	2237.9	2223.0	2224.7
50°	2374.3	2403.6	2431.8	2442.8	2434.5	2416.9	2395.9	2395.3
52.5°	2596.4	2627.8	2651.0	2648.3	2627.8	2600.2	2576.5	2575.4
55°	2873.6	2884.1	2880.8	2857.0	2821.1	2778.1	2747.7	2742.7
57.5°	3208.9	3173.5	3121.6	3049.8	2969.2	2887.4	2832.2	2811.8
60°	3618.7	3459.0	3273.5	3078.0	2899.6	2765.9	2681.4	2630.0
62.5°	3957.2	3494.9	3080.2	2740.5	2462.7	2297.6	2182.1	2110.9
65°	3841.2	3019.4	2418.5	1980.5	1677.3	1506.7	1384.6	1303.4
67.5°	2967.5	2017.5	1403.9	973.1	737.9	624.6	545.7	494.3
70°	1496.2	773.8	468.9	330.8	282.8	262.9	249.6	241.9
72.5°	439.1	293.3	243.6	215.4	198.3	186.1	178.4	174.5
75°	243.0	198.3	175.1	159.1	148.0	139.7	134.8	131.4
77.5°	167.3	144.1	132.6	122.1	113.2	107.1	103.3	100.0
80°	117.1	105.5	100.5	95.0	88.4	83.4	77.9	75.7
82.5°	77.9	72.9	71.8	67.4	63.5	58.0	48.0	44.7
85°	45.8	45.3	45.3	43.6	40.9	35.9	28.7	28.7
87.5°	16.0	16.6	17.1	18.2	17.7	14.9	12.2	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)