

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: P198825

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198825
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-7050-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13762 lumens
Efficiency: N/A
Efficacy: 107.5 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): 128
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

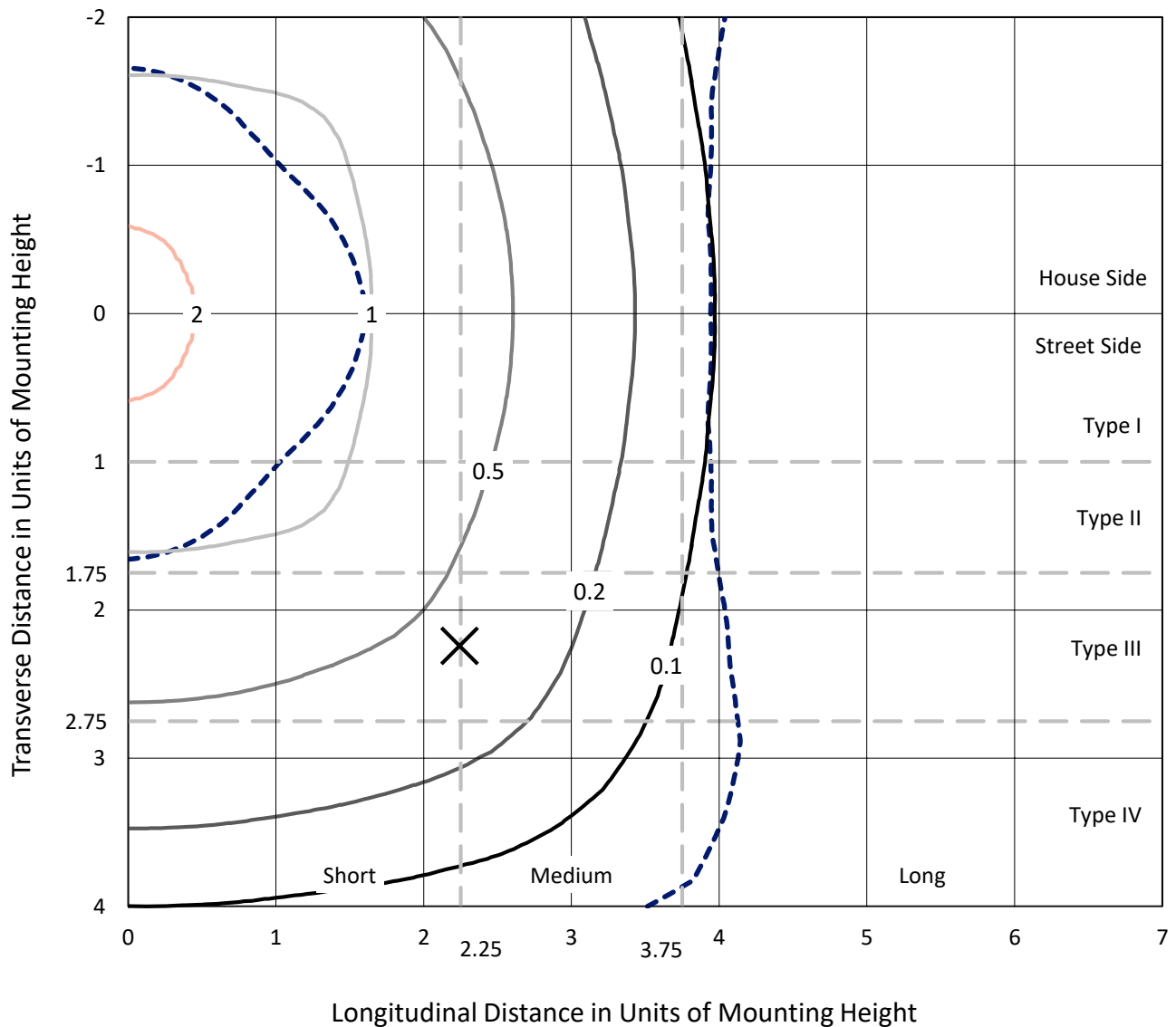


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

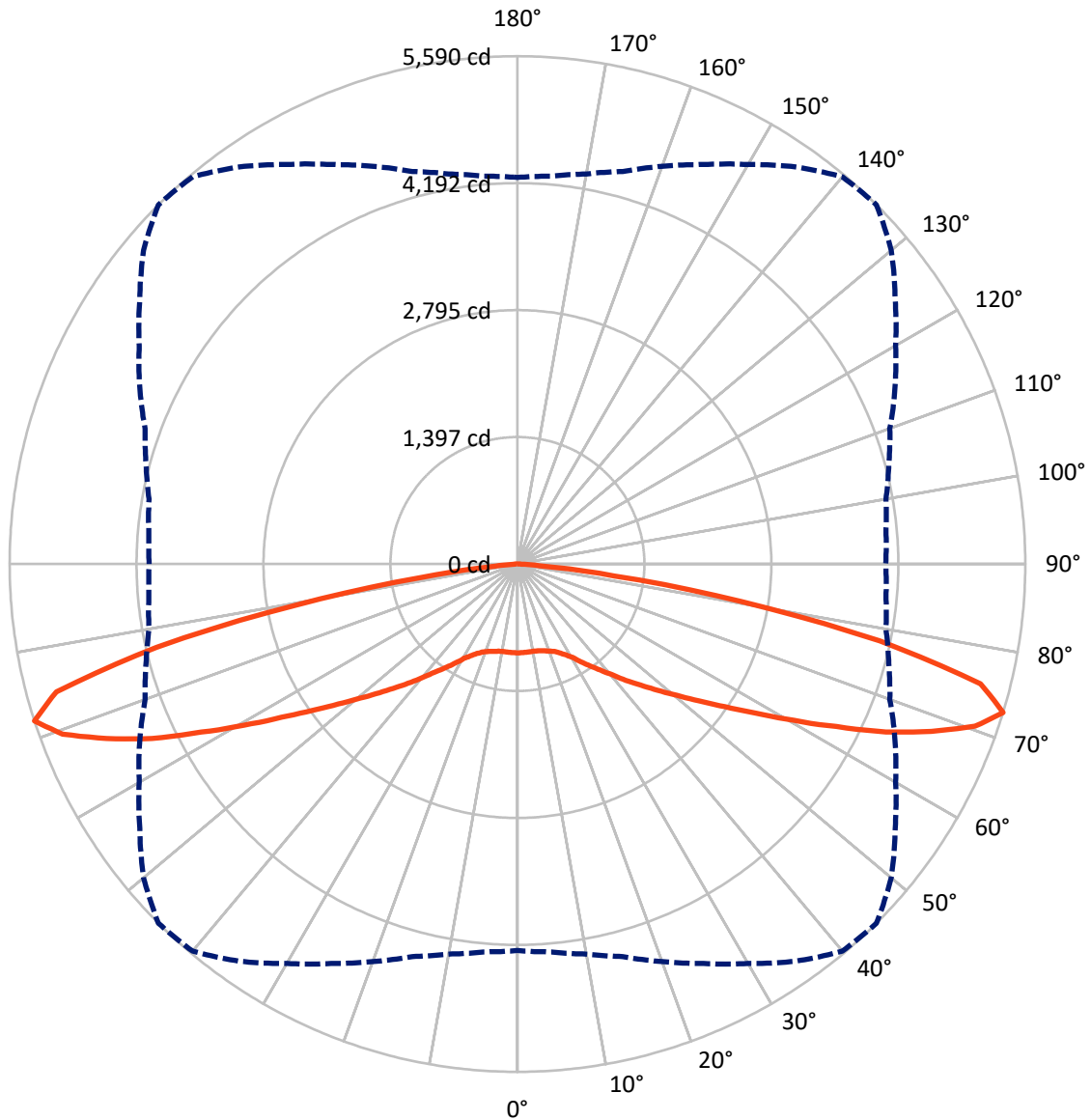


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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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	6881.0	0.0	6881.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6881.0	0.0	6881.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13762.0	0.0	13762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	0.7
10°-20°	282.6	2.1
20°-30°	510.2	3.7
30°-40°	870.3	6.3
40°-50°	1481.7	10.8
50°-60°	2384.5	17.3
60°-70°	3965.5	28.8
70°-80°	3836.2	27.9
80°-90°	337.6	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°	13762.0	100.0
0°-180°	13762.0	100.0



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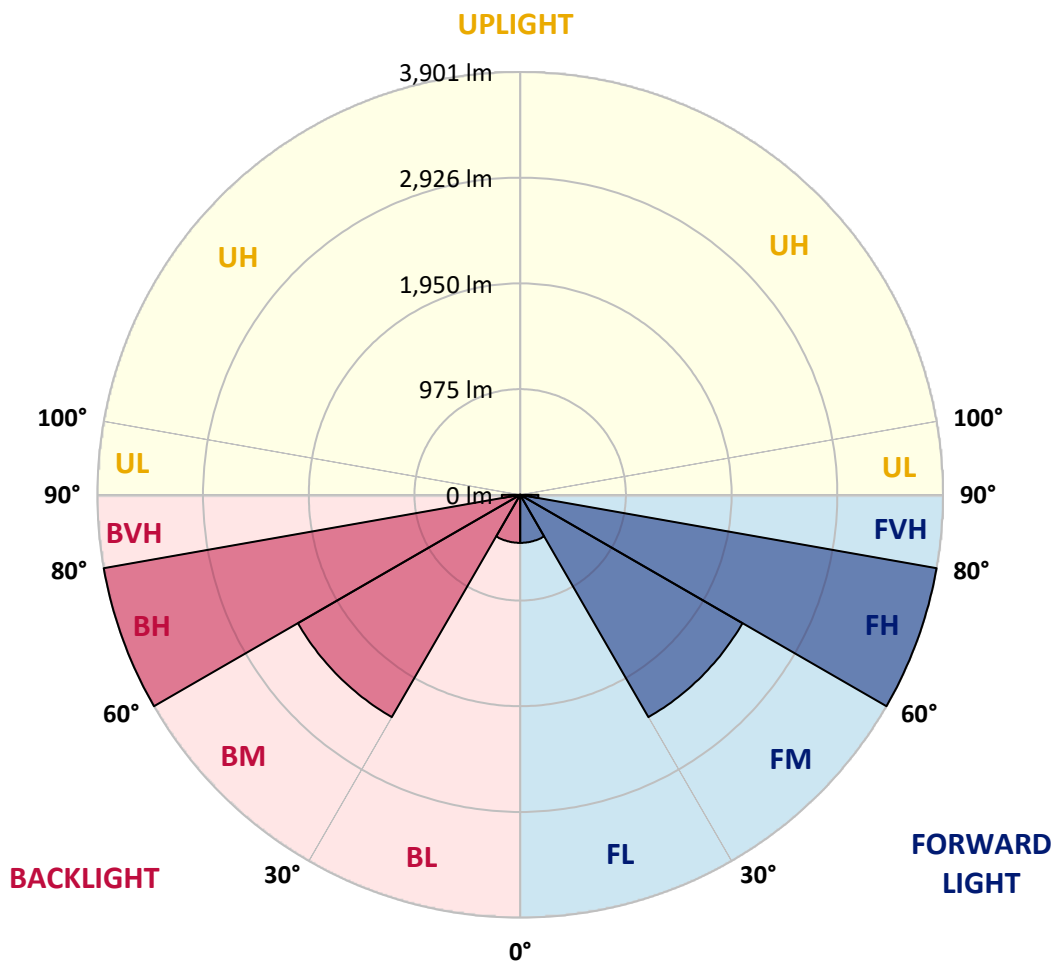
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	3.2			
FM (30°-60°)	2368.2	17.2			
FH (60°-80°)	3900.8	28.3			G2/5000
FVH (80°-90°)	168.8	1.2			G2/225
BL (0°-30°)	443.1	3.2	B1/500		
BM (30°-60°)	2368.2	17.2	B2/2500		
BH (60°-80°)	3900.8	28.3	B4/5000		G2/5000
BVH (80°-90°)	168.8	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°	978.4	978.4	978.4	978.4	978.4	978.4	978.4	978.4	978.4	978.4	978.4
2.5°	986.0	986.0	986.8	986.0	984.3	983.5	980.9	979.2	977.5	976.7	975.0
5°	986.8	986.8	987.7	986.8	985.2	983.5	981.8	979.2	977.5	975.8	975.0
7.5°	990.2	991.1	991.9	991.1	987.7	986.0	983.5	980.9	977.5	975.8	974.1
10°	997.0	997.0	997.0	996.2	993.6	990.2	986.8	984.3	980.1	975.8	973.3
12.5°	1002.1	1002.9	1002.9	1001.2	997.9	993.6	990.2	987.7	984.3	980.9	978.4
15°	1009.7	1009.7	1008.9	1005.5	1000.4	997.0	995.3	994.5	993.6	991.9	989.4
17.5°	1025.0	1024.1	1021.6	1016.5	1010.6	1008.0	1006.3	1006.3	1006.3	1005.5	1003.8
20°	1047.0	1047.0	1043.6	1035.1	1030.0	1027.5	1025.0	1025.0	1025.0	1022.4	1019.9
22.5°	1082.6	1083.4	1078.3	1068.2	1061.4	1056.3	1052.9	1050.4	1047.8	1046.1	1041.9
25°	1130.8	1130.0	1124.1	1111.4	1106.3	1101.2	1094.4	1090.2	1086.8	1084.3	1079.2
27.5°	1181.7	1180.8	1174.0	1163.0	1159.6	1152.0	1146.9	1141.0	1136.8	1132.5	1127.5
30°	1246.9	1242.7	1237.6	1229.1	1227.4	1221.5	1214.7	1206.2	1199.5	1192.7	1186.8
32.5°	1305.3	1305.3	1297.7	1293.5	1296.9	1294.3	1295.2	1290.1	1285.9	1283.3	1277.4
35°	1386.7	1386.7	1383.3	1378.2	1379.0	1373.1	1372.3	1373.1	1376.5	1376.5	1369.7
37.5°	1495.1	1496.8	1485.8	1484.1	1479.8	1471.4	1467.1	1468.8	1476.5	1480.7	1471.4
40°	1629.8	1633.2	1629.8	1618.8	1613.7	1599.3	1590.8	1590.8	1596.7	1601.0	1597.6
42.5°	1762.8	1768.7	1762.8	1754.3	1750.1	1739.1	1734.8	1738.2	1745.8	1750.9	1745.8
45°	1911.0	1915.2	1907.6	1897.5	1892.4	1886.4	1883.9	1886.4	1894.9	1900.0	1898.3
47.5°	2056.7	2062.6	2053.3	2049.1	2049.1	2043.2	2049.9	2056.7	2064.3	2076.2	2071.1
50°	2199.0	2206.6	2200.7	2201.6	2208.3	2219.3	2232.1	2245.6	2259.2	2271.9	2273.6
52.5°	2326.1	2337.9	2338.8	2354.0	2375.2	2392.1	2427.7	2457.4	2489.6	2500.6	2495.5
55°	2459.9	2476.0	2497.2	2520.9	2554.8	2589.5	2649.7	2703.0	2745.4	2771.6	2767.4
57.5°	2651.4	2667.4	2689.5	2728.4	2779.3	2826.7	2908.9	2991.9	3056.3	3096.1	3076.6
60°	2899.5	2916.5	2945.3	2986.8	3052.9	3117.2	3229.9	3349.3	3449.3	3495.0	3459.5
62.5°	3228.2	3244.3	3262.9	3318.0	3391.7	3474.7	3616.2	3769.5	3896.6	3940.6	3890.6
65°	3696.6	3716.1	3722.1	3767.0	3839.0	3916.0	4068.5	4241.3	4386.2	4458.2	4358.2
67.5°	4224.4	4232.0	4255.7	4308.2	4381.9	4451.4	4571.7	4735.2	4874.1	4913.9	4807.2
70°	4533.6	4548.8	4590.3	4663.2	4751.3	4860.5	4991.8	5168.0	5325.6	5344.2	5208.7
72.5°	4254.0	4285.4	4359.1	4472.6	4657.2	4851.2	5077.4	5337.4	5563.6	5589.9	5372.2
75°	3412.0	3447.6	3535.7	3660.2	3878.8	4166.8	4493.7	4884.3	5223.1	5266.3	4978.3
77.5°	1818.7	1862.7	1990.6	2158.4	2470.1	2851.3	3245.2	3690.7	3978.7	4076.1	3868.6
80°	458.3	482.0	543.8	642.1	853.0	1160.5	1500.2	1979.6	2337.1	2488.7	2337.1
82.5°	177.9	195.7	212.6	224.5	244.8	287.2	396.4	646.3	870.8	1072.4	928.4
85°	68.6	72.8	105.0	119.4	119.4	131.3	150.8	177.9	220.2	240.6	201.6
87.5°	27.1	29.6	36.4	55.9	57.6	50.8	54.2	61.0	46.6	39.0	44.0
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°	978.4	978.4	978.4	978.4	978.4	978.4	978.4	978.4
2.5°	974.1	973.3	971.6	972.4	971.6	971.6	971.6	971.6
5°	973.3	973.3	971.6	971.6	971.6	972.4	971.6	971.6
7.5°	972.4	971.6	969.9	969.1	969.1	968.2	968.2	968.2
10°	970.8	969.1	967.4	966.5	966.5	964.8	964.8	964.8
12.5°	975.0	972.4	970.8	969.9	969.9	969.9	970.8	970.8
15°	986.8	981.8	979.2	978.4	979.2	980.9	981.8	982.6
17.5°	999.6	994.5	990.2	988.5	989.4	991.9	994.5	996.2
20°	1015.6	1011.4	1006.3	1004.6	1004.6	1008.0	1009.7	1012.3
22.5°	1038.5	1035.1	1030.9	1028.4	1026.7	1030.9	1033.4	1035.1
25°	1074.9	1071.6	1068.2	1065.6	1064.8	1069.0	1070.7	1071.6
27.5°	1123.2	1119.8	1118.1	1117.3	1114.8	1116.4	1119.0	1118.1
30°	1185.9	1188.5	1185.9	1185.9	1181.7	1183.4	1181.7	1180.0
32.5°	1269.8	1267.2	1259.6	1254.5	1248.6	1248.6	1246.1	1243.5
35°	1353.6	1345.2	1340.9	1343.5	1340.9	1342.6	1338.4	1334.1
37.5°	1452.7	1447.7	1446.8	1454.4	1452.7	1454.4	1454.4	1448.5
40°	1584.0	1580.6	1586.6	1599.3	1604.4	1603.5	1605.2	1597.6
42.5°	1734.8	1728.9	1731.4	1742.4	1748.4	1750.1	1749.2	1742.4
45°	1885.6	1887.3	1887.3	1899.1	1905.1	1908.5	1902.5	1900.0
47.5°	2055.9	2058.4	2052.5	2060.1	2061.8	2067.7	2062.6	2058.4
50°	2252.4	2243.1	2229.5	2232.1	2232.1	2230.4	2224.4	2219.3
52.5°	2471.8	2450.6	2425.2	2416.7	2407.4	2398.1	2386.2	2376.9
55°	2721.7	2685.2	2639.5	2618.3	2600.5	2579.4	2552.2	2542.9
57.5°	3011.4	2948.7	2887.7	2849.6	2803.8	2775.9	2741.1	2739.4
60°	3355.3	3270.6	3163.0	3106.2	3060.5	3027.5	3001.2	2991.0
62.5°	3752.6	3606.9	3490.8	3429.8	3376.5	3356.1	3323.1	3327.3
65°	4160.0	4011.8	3899.1	3850.0	3800.0	3786.4	3755.9	3767.0
67.5°	4601.3	4479.3	4355.7	4309.9	4264.2	4250.6	4219.3	4228.6
70°	4996.9	4841.9	4701.3	4611.5	4533.6	4470.9	4431.1	4415.0
72.5°	5075.7	4807.2	4586.1	4361.6	4232.0	4118.5	4071.9	4054.1
75°	4560.7	4143.9	3828.8	3565.4	3419.7	3254.5	3236.7	3212.1
77.5°	3547.6	3073.2	2692.0	2353.2	2157.5	1955.9	1886.4	1833.9
80°	2116.0	1626.4	1260.5	883.5	720.9	580.2	545.5	509.1
82.5°	757.3	485.4	327.0	255.0	227.9	210.1	196.5	178.7
85°	183.0	154.2	145.7	132.1	130.4	111.0	78.8	70.3
87.5°	58.4	53.4	54.2	51.7	54.2	40.7	33.0	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)