

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: P271236

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

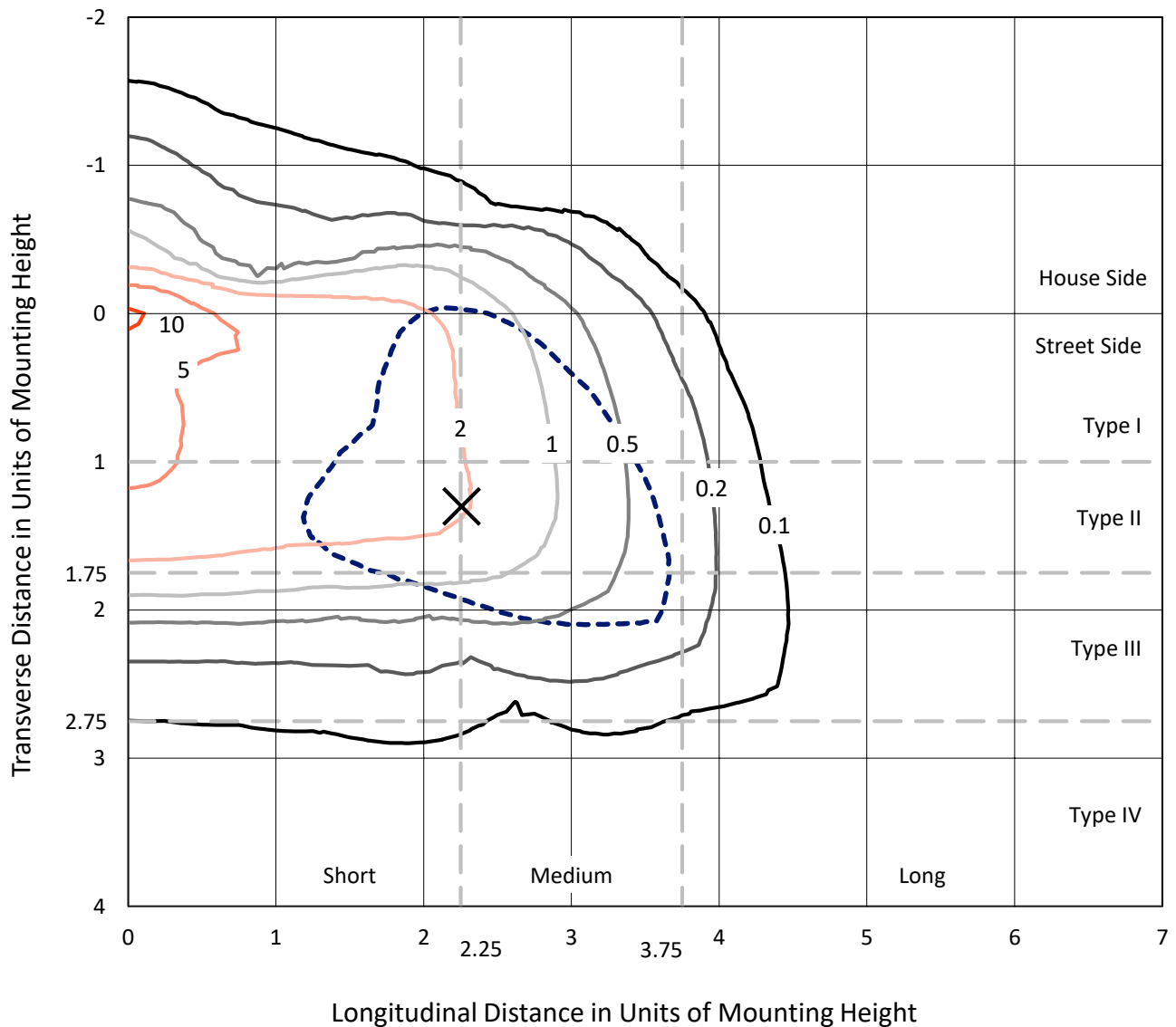
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

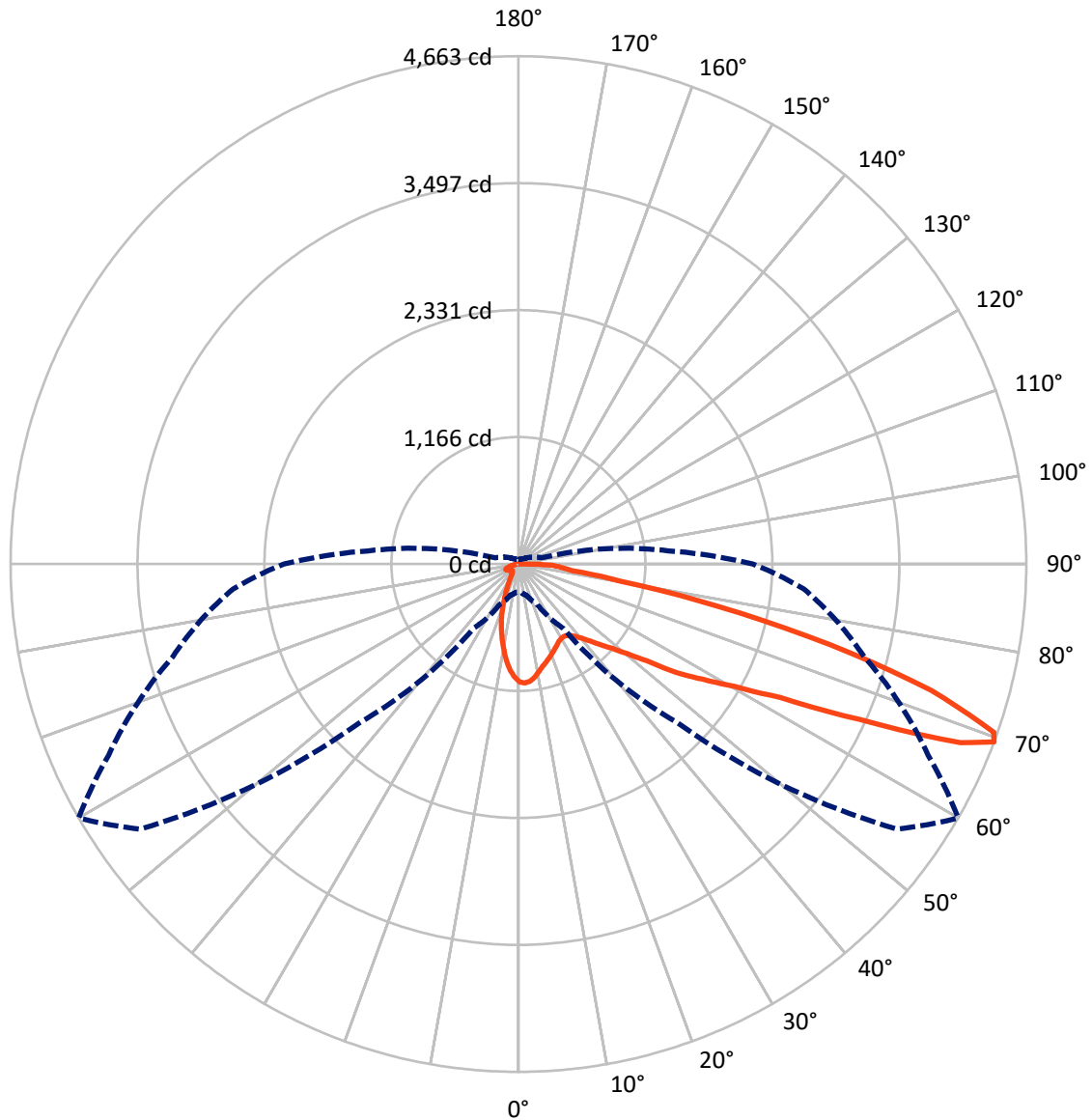
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.9	0.0	604.9
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	3636.1	0.0	3636.1
	% Fixture	85.7	0.0	85.7
Total	Lumens	4241.0	0.0	4241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.2
10°-20°	196.6	4.6
20°-30°	250.7	5.9
30°-40°	345.0	8.1
40°-50°	558.9	13.2
50°-60°	877.2	20.7
60°-70°	1169.4	27.6
70°-80°	650.5	15.3
80°-90°	100.9	2.4
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°	4241.0	100.0
0°-180°	4241.0	100.0

Coefficient of Utilization



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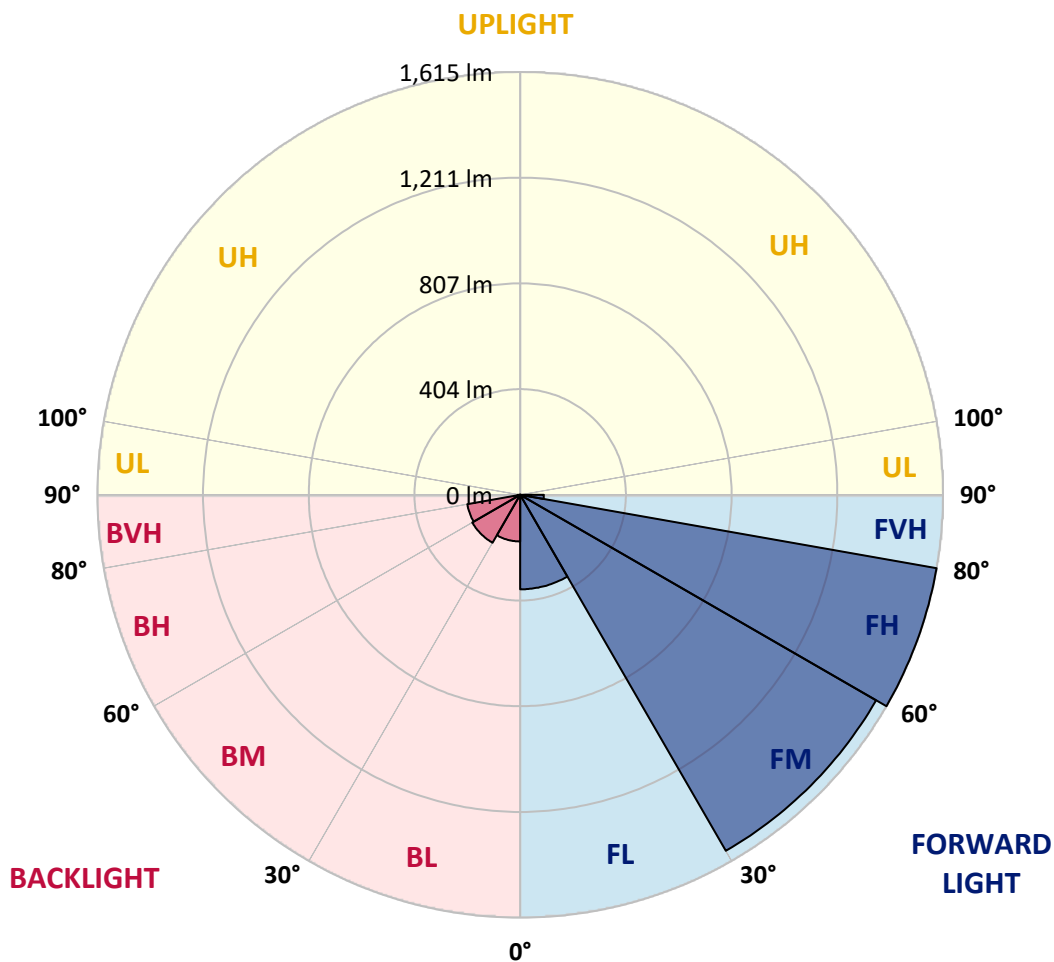
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.8	8.5			
FM	(30°-60°)	1569.8	37.0			
FH	(60°-80°)	1614.8	38.1			G1/1800
FVH	(80°-90°)	90.7	2.1			G1/100
BL	(0°-30°)	178.3	4.2	B1/500		
BM	(30°-60°)	211.3	5.0	B0/220		
BH	(60°-80°)	205.1	4.8	B1/500		G1/500
BVH	(80°-90°)	10.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1
2.5°	1110.9	1113.9	1113.9	1111.5	1110.1	1102.2	1097.5	1094.3	1088.7	1078.1	1068.5
5°	1071.1	1077.0	1079.4	1080.5	1087.6	1085.2	1085.3	1083.1	1078.2	1066.8	1051.3
7.5°	998.3	999.5	1003.8	1011.1	1028.3	1040.1	1049.9	1051.9	1050.8	1042.5	1020.7
10°	926.5	928.5	933.6	946.2	962.4	979.6	1000.8	1009.4	1016.1	1013.3	985.8
12.5°	867.0	867.3	873.0	887.3	905.6	927.1	955.8	969.5	985.0	991.3	960.6
15°	809.6	813.4	818.9	836.2	858.8	886.0	919.1	938.0	958.3	976.3	941.0
17.5°	766.1	769.0	772.4	786.7	812.8	846.8	888.0	908.0	935.0	962.4	920.9
20°	742.2	743.3	740.8	747.8	769.8	806.6	854.2	878.5	910.5	949.1	900.1
22.5°	737.2	737.2	728.3	726.9	736.7	767.7	819.4	849.1	888.2	939.8	881.6
25°	760.1	758.4	741.6	726.1	722.5	738.3	786.1	822.7	869.2	939.5	867.9
27.5°	803.4	801.2	780.3	754.1	731.6	724.8	760.7	798.0	854.2	948.8	860.8
30°	857.3	856.4	835.2	802.5	765.3	730.2	750.7	785.1	844.1	965.9	860.4
32.5°	916.2	912.4	899.4	866.8	818.3	760.3	756.6	785.7	841.4	991.0	866.8
35°	979.1	976.3	973.0	940.2	885.8	813.7	783.0	804.4	854.7	1025.9	884.4
37.5°	1059.0	1056.0	1061.4	1025.5	965.9	883.6	827.6	842.0	882.0	1076.3	917.3
40°	1201.3	1192.5	1177.3	1122.1	1059.6	969.2	891.9	894.3	928.5	1144.1	970.1
42.5°	1434.9	1406.8	1331.5	1230.0	1158.3	1068.8	976.1	965.7	992.6	1233.6	1046.7
45°	1669.1	1637.4	1510.1	1347.7	1260.5	1175.6	1079.9	1055.1	1072.5	1337.8	1145.5
47.5°	1820.1	1804.7	1661.1	1465.6	1367.7	1292.0	1198.8	1157.9	1170.5	1455.8	1267.2
50°	1864.5	1851.1	1738.3	1557.8	1468.8	1432.6	1345.9	1291.8	1294.0	1593.7	1413.4
52.5°	1831.4	1825.8	1751.1	1614.9	1561.9	1580.8	1549.5	1474.3	1456.3	1744.9	1571.7
55°	1787.0	1789.0	1760.0	1672.3	1656.5	1718.9	1816.2	1755.5	1679.3	1902.3	1736.5
57.5°	1647.5	1648.8	1724.4	1781.6	1837.0	1912.6	2023.6	1998.0	1909.3	2072.3	1921.0
60°	1326.5	1337.1	1505.5	1759.1	2043.5	2294.2	2321.4	2277.4	2154.1	2268.1	2161.2
62.5°	947.7	957.2	1152.3	1526.9	2019.2	2726.0	2871.3	2696.2	2486.1	2561.0	2498.9
65°	497.9	496.4	647.3	1055.1	1700.9	2826.2	3737.7	3439.7	3045.7	2963.8	2825.3
67.5°	278.3	287.2	345.7	532.2	1108.5	2487.2	4291.2	4379.0	3823.4	3283.2	2811.2
69°	257.3	260.2	299.4	411.5	722.5	2052.2	4243.6	4662.7	4151.3	3284.7	2630.1
70°	249.9	253.2	288.9	379.2	607.1	1681.4	4070.3	4629.4	4231.0	3211.8	2465.3
72.5°	224.0	228.4	262.9	340.7	511.6	866.8	3278.6	3962.3	3832.6	2807.2	1911.6
75°	191.2	198.5	250.7	338.3	484.6	551.0	2186.6	2952.0	2852.5	2007.5	1084.6
77.5°	79.1	79.9	109.7	247.8	508.5	527.3	1175.2	1869.9	1655.3	880.2	326.7
80°	55.2	54.1	54.6	72.4	410.3	530.9	602.9	951.0	739.1	232.2	152.8
82.5°	46.5	46.0	48.1	45.5	139.0	602.4	504.2	495.8	348.2	125.1	72.9
85°	30.7	30.0	39.4	41.3	66.0	478.3	542.2	389.8	259.4	67.0	31.0
87.5°	14.9	15.2	22.5	27.9	35.0	151.5	519.4	308.1	200.4	29.0	12.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1	1082.1
2.5°	1064.8	1056.5	1049.2	1040.0	1033.0	1026.9	1018.8	1018.5	1017.2	1018.9	1019.5
5°	1041.0	1027.4	1006.8	983.6	967.4	945.8	925.0	917.9	910.0	909.2	911.6
7.5°	1005.5	984.3	948.8	913.4	878.2	842.0	807.7	790.2	773.4	768.3	770.7
10°	965.7	938.8	884.7	827.0	777.3	723.3	671.2	637.4	606.7	593.7	597.0
12.5°	934.6	900.5	824.3	749.5	674.9	597.7	528.9	462.3	412.1	389.4	390.9
15°	908.0	864.3	767.7	668.2	574.9	469.2	373.6	296.4	252.3	236.1	235.5
17.5°	879.3	826.3	708.8	592.6	471.6	340.7	250.2	204.5	187.0	181.6	181.6
20°	848.4	787.0	647.0	510.1	362.7	238.0	188.1	170.5	164.0	162.4	162.1
22.5°	820.0	748.6	584.9	422.4	262.5	180.6	160.2	153.4	152.4	153.7	153.7
25°	797.3	715.1	522.2	329.9	190.9	151.3	142.6	141.8	145.7	150.6	151.5
27.5°	780.4	684.8	460.1	240.9	150.1	131.6	128.6	132.2	141.8	151.5	153.4
30°	768.8	658.9	385.9	173.3	125.1	115.3	116.7	122.9	137.4	152.4	156.3
32.5°	763.6	637.9	311.2	132.9	106.9	101.5	105.0	113.1	128.1	143.0	148.0
35°	768.5	622.7	242.1	110.4	93.6	89.6	93.6	102.0	111.7	119.1	122.1
37.5°	786.1	617.3	182.1	97.9	84.9	80.8	84.0	89.7	94.1	96.7	98.2
40°	823.4	623.1	142.8	91.4	79.9	75.4	76.1	79.0	81.8	84.0	84.4
42.5°	882.8	641.7	127.0	88.9	77.0	71.0	69.6	71.5	74.7	77.8	78.3
45°	961.6	673.1	125.4	89.7	75.5	67.5	64.7	66.7	71.0	75.8	76.6
47.5°	1063.7	722.5	132.9	94.1	76.4	65.5	61.4	63.4	69.1	75.5	76.6
50°	1184.3	791.0	147.1	100.6	80.2	65.5	60.0	61.8	67.7	75.1	76.1
52.5°	1326.5	886.5	161.9	107.2	85.7	68.0	60.6	60.4	65.8	72.7	74.0
55°	1483.6	1005.2	176.0	112.8	88.7	71.2	62.1	58.7	63.2	68.5	69.6
57.5°	1668.2	1167.4	200.7	118.2	90.3	73.8	63.6	57.1	59.6	63.4	64.1
60°	1918.6	1405.9	248.8	127.6	93.2	74.7	63.9	55.4	55.2	57.9	58.2
62.5°	2245.3	1685.3	294.9	138.3	99.3	75.1	62.8	54.3	51.7	52.6	52.6
65°	2477.4	1788.0	281.4	147.7	104.7	74.7	61.8	53.5	49.0	47.6	47.6
67.5°	2345.4	1579.5	239.0	150.1	105.2	71.9	59.3	51.7	46.5	43.3	43.3
69°	2151.1	1384.5	219.5	145.7	100.9	68.2	56.6	49.8	44.8	41.1	41.1
70°	1992.9	1236.8	207.5	140.7	95.7	65.2	54.1	47.9	43.3	40.0	39.7
72.5°	1487.9	825.4	177.3	121.4	78.6	55.2	47.3	42.7	38.8	36.7	36.7
75°	785.1	413.6	145.3	99.1	60.6	44.0	38.8	35.9	33.7	33.4	33.1
77.5°	257.3	187.0	104.5	74.5	44.6	34.2	31.0	29.0	28.8	30.0	30.0
80°	139.0	111.7	67.2	50.3	31.0	25.5	24.0	23.6	24.4	26.1	26.1
82.5°	67.5	55.2	40.0	31.0	21.2	18.8	18.8	19.0	20.1	22.0	22.0
85°	29.0	26.1	23.1	17.3	13.0	11.7	13.4	14.7	15.5	16.9	17.3
87.5°	13.8	12.2	10.6	6.7	5.7	6.0	7.0	8.8	10.3	11.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)