

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: P198732

Luminaire Tested: **XNV-AF-01-LED-U-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4769 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

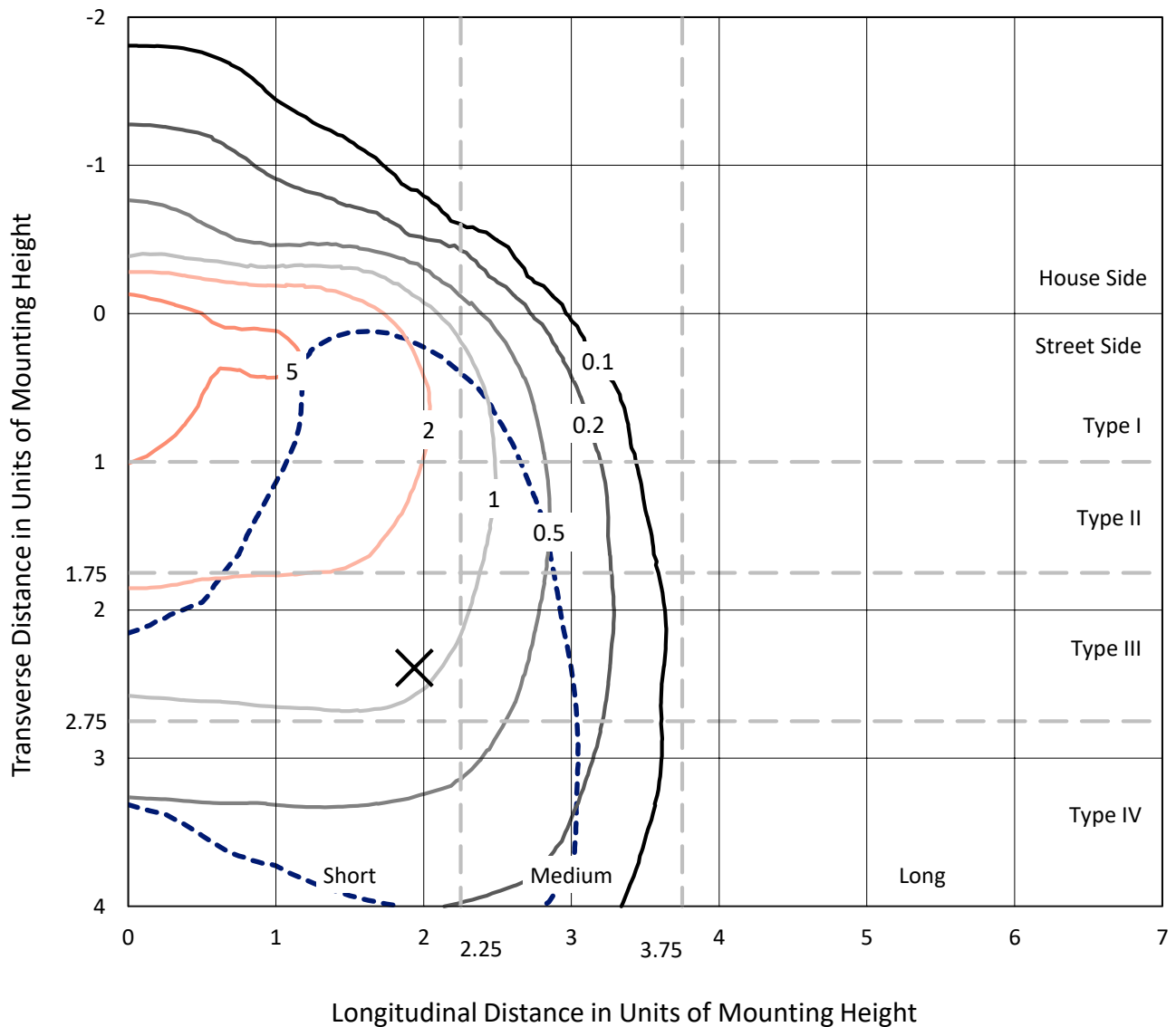
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

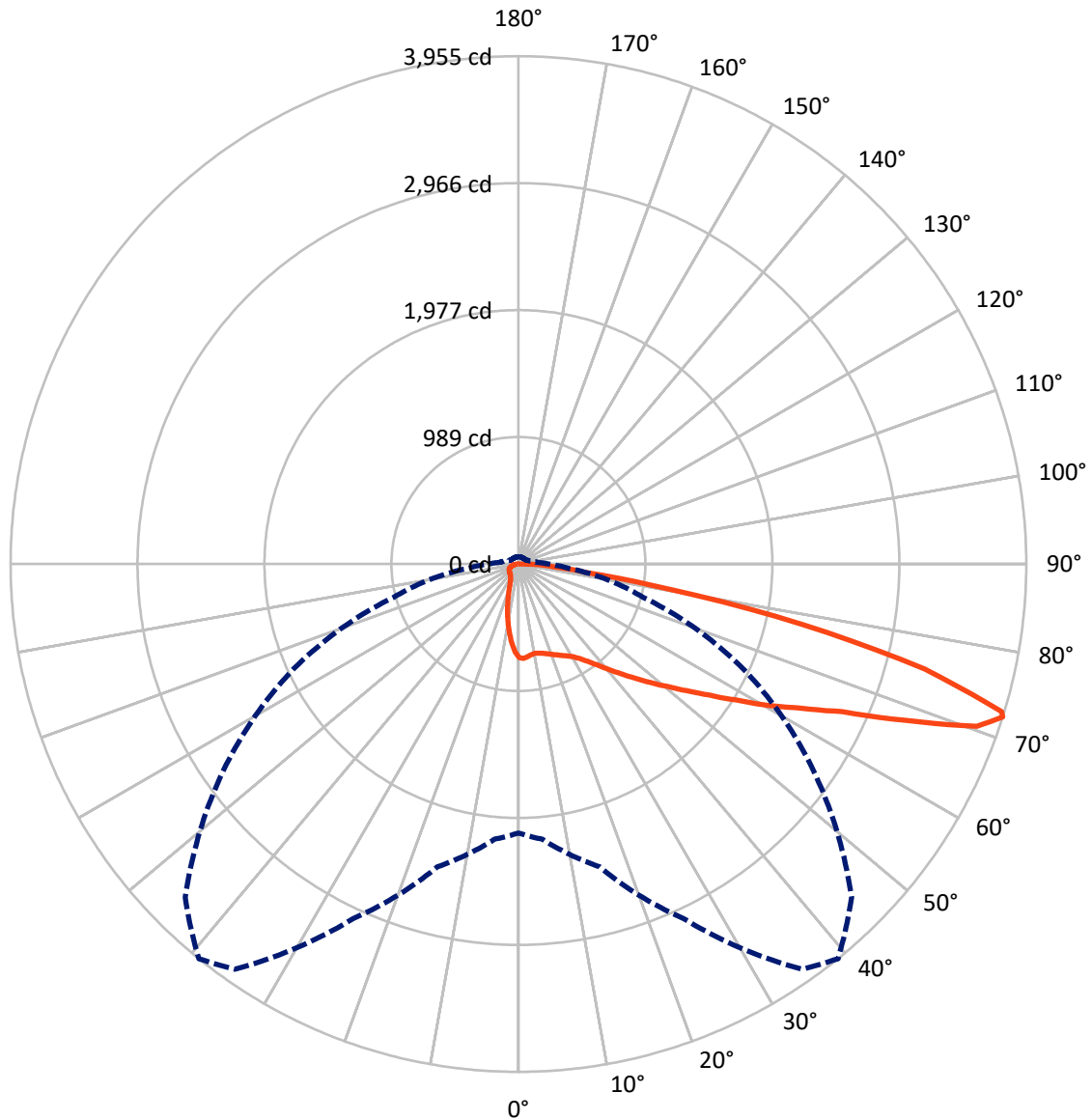


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.8	0.0	546.8
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4222.2	0.0	4222.2
	% Fixture	88.5	0.0	88.5
Total	Lumens	4769.0	0.0	4769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.3
10°-20°	157.3	3.3
20°-30°	245.1	5.1
30°-40°	377.4	7.9
40°-50°	615.2	12.9
50°-60°	955.9	20.0
60°-70°	1279.5	26.8
70°-80°	920.1	19.3
80°-90°	156.0	3.3
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°	4769.0	100.0
0°-180°	4769.0	100.0

Coefficient of Utilization



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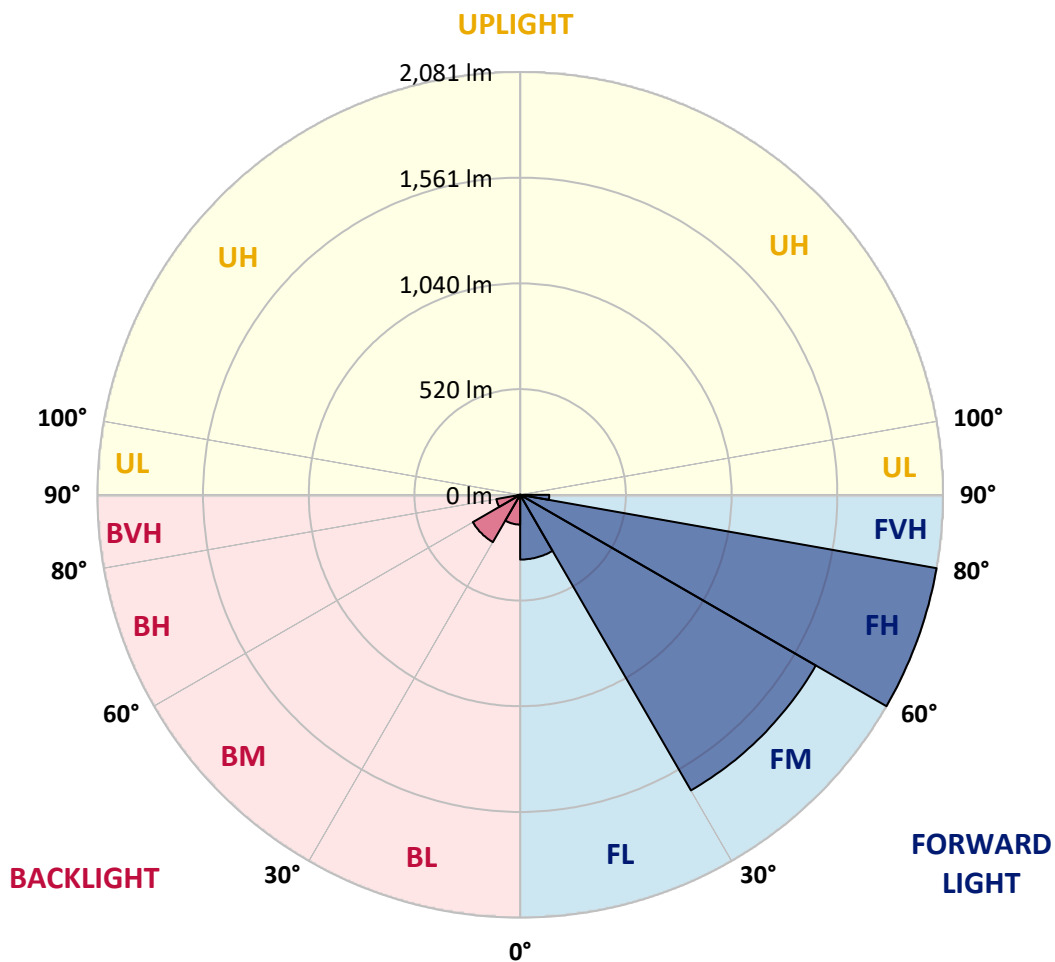
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.6	6.7			
FM	(30°-60°)	1679.7	35.2			
FH	(60°-80°)	2080.8	43.6			G2/5000
FVH	(80°-90°)	143.1	3.0			G2/225
BL	(0°-30°)	146.4	3.1	B1/500		
BM	(30°-60°)	268.7	5.6	B1/1000		
BH	(60°-80°)	118.8	2.5	B1/500		G1/500
BVH	(80°-90°)	12.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3
2.5°	744.0	744.3	743.4	740.5	738.0	736.6	734.4	730.6	725.5	721.9	719.0
5°	736.9	738.0	737.2	732.4	728.0	725.5	721.9	716.5	709.7	706.9	700.1
7.5°	731.5	732.1	730.2	724.8	716.2	712.9	706.6	699.5	693.5	689.3	681.3
10°	727.6	728.3	726.7	721.3	711.7	707.8	700.1	692.4	684.5	679.3	670.3
12.5°	722.2	723.5	723.5	721.0	714.5	712.0	704.3	696.0	688.7	683.1	672.0
15°	721.3	722.9	725.8	725.5	723.5	721.6	715.6	707.2	700.8	694.4	680.6
17.5°	729.3	732.8	738.6	740.5	739.2	735.0	728.0	720.3	713.3	707.2	690.2
20°	749.4	751.4	760.1	763.8	757.4	751.4	742.0	732.1	725.8	721.0	699.2
22.5°	779.9	782.5	789.4	789.8	776.3	769.0	757.1	744.9	738.9	736.9	711.4
25°	828.5	827.9	829.8	821.8	797.5	788.8	774.4	760.4	756.2	760.1	729.3
27.5°	886.8	885.2	879.1	858.3	821.4	810.3	793.0	780.5	780.5	789.4	753.6
30°	954.0	952.4	932.5	897.6	850.0	837.2	818.9	805.8	812.5	829.8	786.5
32.5°	1025.1	1019.3	991.4	944.7	890.6	876.6	859.0	845.5	858.3	887.7	833.9
35°	1092.0	1088.8	1054.6	999.1	943.2	931.3	919.1	902.4	922.9	968.7	900.9
37.5°	1161.2	1158.6	1116.7	1057.7	1007.2	999.1	988.9	977.3	1010.4	1070.5	991.4
40°	1238.3	1233.2	1180.4	1121.5	1081.8	1077.9	1072.5	1069.3	1122.4	1212.0	1106.1
42.5°	1325.6	1315.7	1247.6	1191.5	1163.1	1166.3	1163.4	1176.2	1257.5	1375.4	1242.5
45°	1425.6	1405.7	1314.5	1266.1	1253.0	1265.8	1271.9	1304.6	1417.2	1563.9	1394.8
47.5°	1519.1	1493.4	1387.8	1347.1	1354.5	1376.6	1393.9	1451.5	1592.3	1750.2	1550.4
50°	1605.2	1576.4	1466.2	1431.0	1466.9	1498.2	1534.1	1615.4	1778.7	1942.0	1693.2
52.5°	1668.8	1648.1	1544.7	1522.6	1595.9	1637.5	1694.8	1797.5	1966.9	2124.8	1820.6
55°	1718.1	1707.0	1621.2	1627.6	1741.9	1801.4	1870.9	1989.0	2166.0	2288.6	1923.0
57.5°	1775.1	1766.8	1708.5	1754.4	1923.0	1997.9	2080.0	2211.2	2355.5	2433.1	2003.4
60°	1835.4	1835.4	1805.9	1907.1	2149.7	2235.6	2317.2	2419.3	2544.5	2563.0	2036.1
62.5°	1880.8	1892.7	1903.2	2069.6	2364.9	2471.4	2561.1	2659.1	2740.1	2627.0	1959.3
65°	1946.8	1972.0	2031.6	2257.7	2631.2	2770.8	2891.8	2974.0	2898.5	2576.1	1708.5
67.5°	2060.1	2097.6	2224.3	2537.4	3039.1	3248.1	3365.6	3223.4	2867.4	2255.7	1308.8
70°	2162.2	2215.0	2431.8	2892.4	3569.2	3786.2	3732.1	3165.5	2497.4	1653.5	805.2
72°	2094.3	2152.0	2441.4	3047.1	3852.5	3954.9	3669.7	2805.3	1929.8	1009.0	397.0
72.5°	2049.8	2109.7	2410.3	3043.2	3860.2	3933.6	3583.0	2662.2	1751.8	882.9	321.1
75°	1712.4	1763.7	2072.6	2697.1	3401.8	3267.3	2796.0	1723.0	805.2	285.2	165.2
77.5°	1118.2	1157.3	1429.1	1868.6	2382.8	2253.5	1701.9	806.7	301.9	173.2	124.2
80°	561.8	589.7	764.8	982.5	1286.0	1183.2	785.6	390.3	202.0	125.2	97.7
82.5°	390.9	416.5	526.6	501.7	537.6	520.3	369.4	325.6	151.1	79.1	51.2
85°	327.9	354.4	435.7	357.6	292.6	266.7	264.7	307.6	99.8	39.1	43.2
87.5°	285.9	326.2	359.5	261.3	200.7	177.1	195.0	282.0	31.7	21.5	13.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3
2.5°	714.2	713.3	708.5	701.1	695.6	692.1	685.4	685.1	685.7	680.0	682.2
5°	694.1	690.2	677.7	660.7	647.0	633.8	619.5	614.7	610.5	601.9	602.8
7.5°	672.9	666.2	644.5	616.6	590.0	565.7	541.7	529.8	520.9	509.6	509.6
10°	660.4	649.9	616.6	575.9	533.7	498.2	462.3	440.8	425.1	410.7	409.8
12.5°	659.8	643.8	597.4	541.3	483.4	433.4	384.5	351.5	328.2	311.2	309.5
15°	664.9	642.5	581.3	509.0	436.0	371.0	310.6	268.6	238.9	219.9	218.0
17.5°	669.4	640.9	564.1	475.1	389.9	310.9	243.7	200.1	172.0	156.5	155.0
20°	673.6	637.4	542.0	439.3	339.0	254.5	190.5	155.3	136.7	128.1	127.1
22.5°	679.6	634.2	518.9	398.8	289.1	207.1	157.2	131.9	121.9	117.8	117.1
25°	689.6	634.5	496.5	357.6	243.3	172.6	136.1	120.4	115.0	112.0	112.0
27.5°	704.0	638.3	474.4	315.7	204.6	148.8	123.6	114.3	110.8	108.5	107.9
30°	725.1	645.4	451.1	276.0	173.8	132.6	116.2	110.5	107.6	105.7	105.4
32.5°	755.9	657.9	426.5	239.8	150.5	121.0	110.8	107.2	105.0	103.4	103.1
35°	801.6	680.0	402.4	209.1	133.8	112.7	106.3	103.4	102.1	101.5	101.2
37.5°	868.9	715.6	379.7	185.1	123.0	107.2	101.8	100.2	99.5	99.5	99.5
40°	953.4	762.2	359.2	168.1	116.8	103.1	98.6	97.3	97.3	97.7	97.7
42.5°	1056.1	820.8	341.6	156.5	113.3	100.2	96.4	95.7	95.4	95.4	95.7
45°	1175.6	890.0	330.7	147.6	110.8	98.6	94.7	94.4	93.2	92.5	92.5
47.5°	1295.6	963.9	330.1	142.5	107.6	96.7	93.2	93.2	90.6	89.3	89.6
50°	1407.7	1030.2	337.1	141.2	105.7	93.8	91.6	91.9	88.4	86.7	86.4
52.5°	1497.9	1080.7	345.8	142.8	105.7	91.2	88.7	90.3	86.4	84.5	84.2
55°	1567.7	1116.0	348.9	146.3	106.9	89.0	86.1	88.7	85.8	83.3	83.3
57.5°	1617.7	1127.2	335.2	147.9	108.8	88.7	83.6	88.4	86.7	83.6	83.6
60°	1599.4	1062.2	284.0	141.8	108.5	88.1	81.6	89.0	89.9	86.4	86.4
62.5°	1457.0	888.7	227.9	128.1	103.1	85.8	79.4	88.4	92.2	90.9	90.3
65°	1186.1	651.8	176.8	111.7	93.8	81.0	74.6	82.6	87.1	88.4	88.7
67.5°	835.9	412.7	137.4	95.0	82.2	74.0	69.2	73.0	74.6	75.2	76.5
70°	457.2	223.4	109.1	80.0	70.4	66.9	63.4	63.7	63.1	62.4	63.1
72°	229.6	146.0	92.2	69.5	62.4	60.1	58.6	57.6	57.6	56.7	57.0
72.5°	197.5	135.7	89.0	66.9	60.5	58.6	57.3	56.4	56.1	55.3	55.8
75°	131.6	107.6	74.3	56.1	51.6	50.2	50.9	49.9	50.2	49.6	49.9
77.5°	106.3	92.5	63.1	47.4	44.2	42.2	43.6	43.9	44.5	43.9	43.6
80°	89.0	78.8	52.8	39.1	36.8	35.2	35.9	38.1	38.5	36.5	36.2
82.5°	57.6	63.4	41.6	30.4	28.1	27.5	29.2	31.4	32.0	29.5	28.8
85°	48.4	50.9	30.1	20.8	18.6	17.9	21.2	23.3	25.0	22.4	21.8
87.5°	13.4	25.0	14.7	9.9	8.3	8.3	10.2	12.2	14.4	14.7	14.7
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)