

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: P271244

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271244
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-SL4-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 4050.6 lumens
Efficiency: N/A
Efficacy: 92.1 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

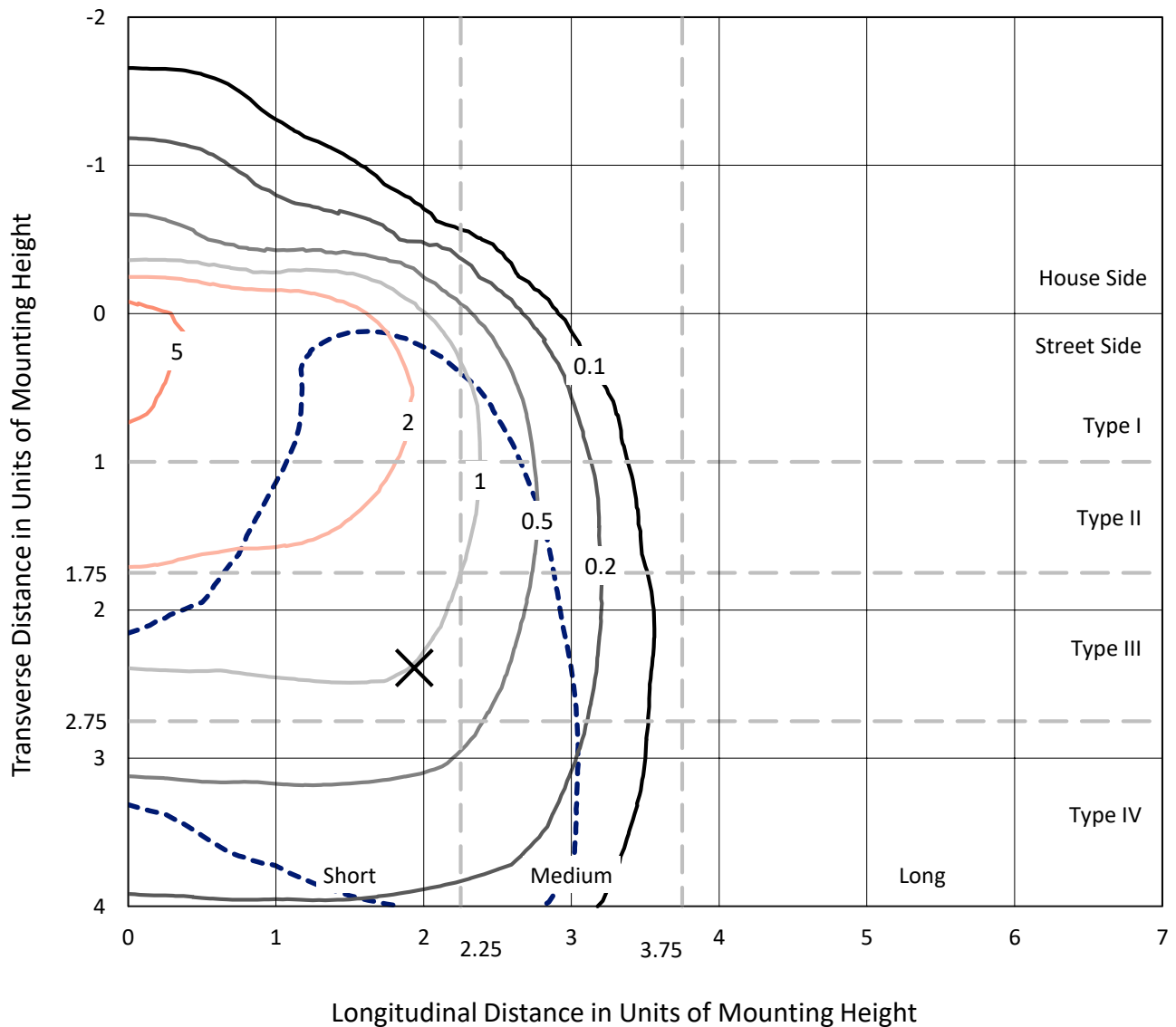
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

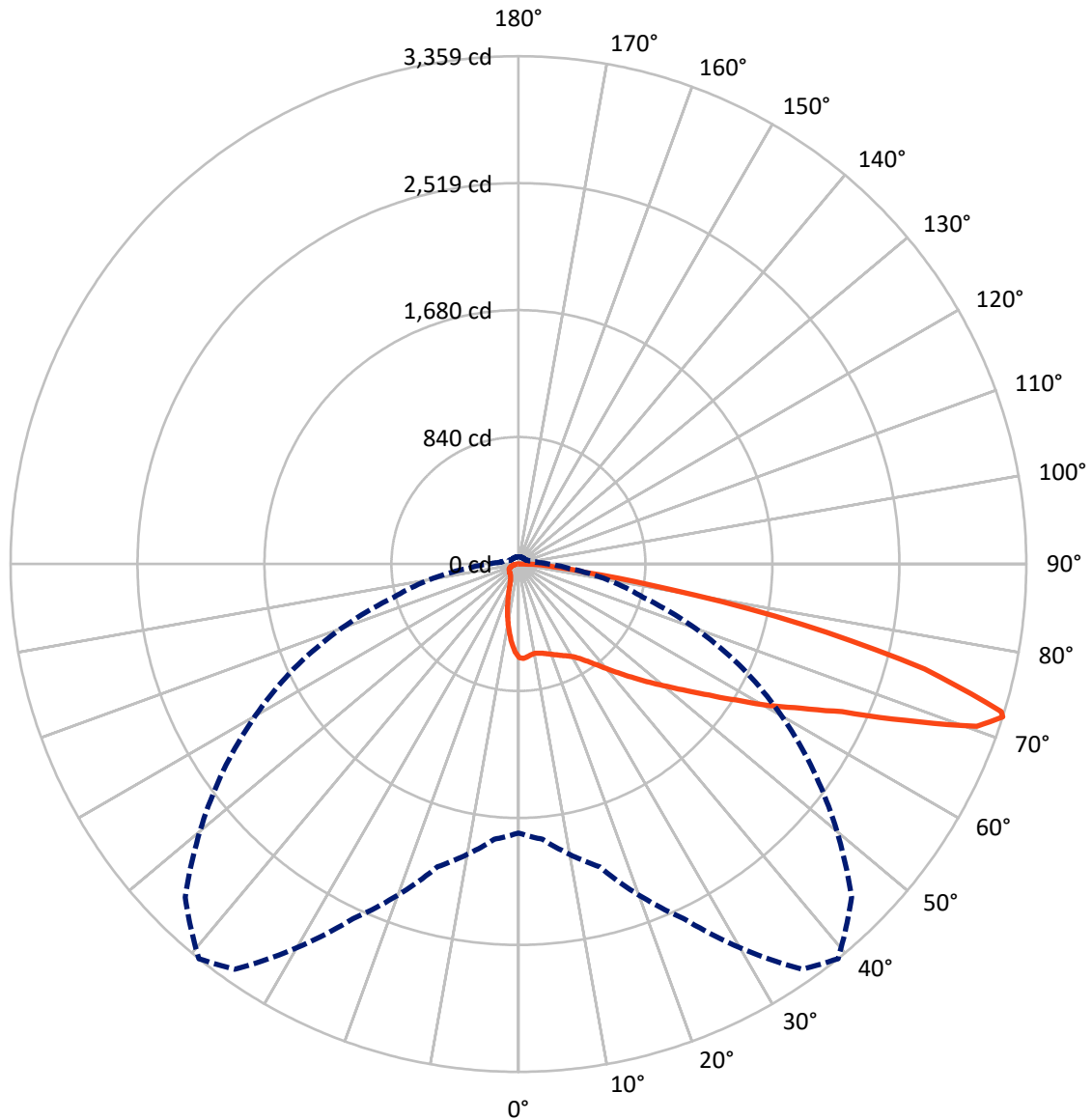
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	464.5	0.0	464.5
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	3586.1	0.0	3586.1
	% Fixture	88.5	0.0	88.5
Total	Lumens	4050.6	0.0	4050.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.3
10°-20°	133.6	3.3
20°-30°	208.2	5.1
30°-40°	320.5	7.9
40°-50°	522.5	12.9
50°-60°	811.9	20.0
60°-70°	1086.7	26.8
70°-80°	781.5	19.3
80°-90°	132.5	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°	4050.6	100.0
0°-180°	4050.6	100.0



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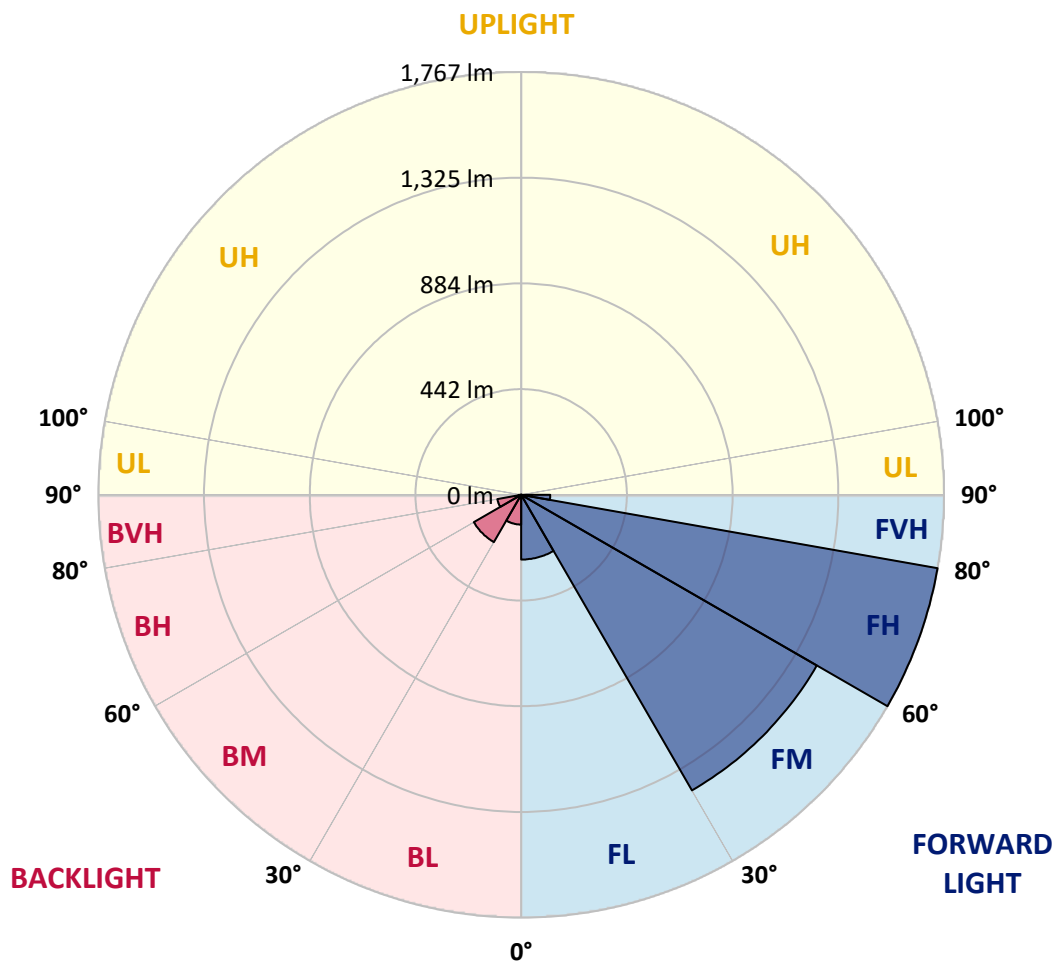
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.6	6.7			
FM	(30°-60°)	1426.7	35.2			
FH	(60°-80°)	1767.3	43.6			G1/1800
FVH	(80°-90°)	121.5	3.0			G2/225
BL	(0°-30°)	124.3	3.1	B1/500		
BM	(30°-60°)	228.3	5.6	B1/1000		
BH	(60°-80°)	100.9	2.5	B0/110		G0/110
BVH	(80°-90°)	10.9	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°	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7
2.5°	631.9	632.1	631.4	629.0	626.7	625.7	623.8	620.5	616.1	613.2	610.7
5°	625.8	626.7	626.2	622.2	618.4	616.1	613.2	608.5	602.9	600.3	594.7
7.5°	621.3	621.8	620.2	615.6	608.2	605.5	600.1	594.0	589.0	585.4	578.6
10°	618.0	618.7	617.2	612.6	604.5	601.1	594.7	588.1	581.4	577.0	569.3
12.5°	613.5	614.5	614.5	612.4	607.0	604.6	598.2	591.2	584.8	580.2	570.8
15°	612.6	614.0	616.4	616.1	614.5	612.9	607.8	600.6	595.1	589.7	578.1
17.5°	619.4	622.3	627.2	629.0	627.8	624.3	618.4	611.7	605.7	600.6	586.2
20°	636.5	638.2	645.5	648.8	643.4	638.2	630.3	621.8	616.4	612.4	593.9
22.5°	662.4	664.6	670.6	670.9	659.4	653.2	643.0	632.8	627.6	625.8	604.2
25°	703.7	703.2	704.8	698.1	677.3	670.0	657.7	645.8	642.3	645.5	619.4
27.5°	753.1	751.8	746.8	729.0	697.8	688.2	673.5	662.9	662.9	670.6	640.1
30°	810.4	809.0	792.0	762.4	721.9	711.1	695.6	684.4	690.1	704.8	668.1
32.5°	870.6	865.7	842.2	802.4	756.5	744.4	729.6	718.1	729.0	753.9	708.4
35°	927.5	924.7	895.7	848.5	801.1	791.0	780.6	766.6	784.0	822.8	765.1
37.5°	986.2	984.1	948.4	898.3	855.5	848.5	839.9	830.2	858.2	909.3	842.2
40°	1051.7	1047.5	1002.5	952.6	918.7	915.6	910.9	908.1	953.3	1029.5	939.4
42.5°	1125.9	1117.5	1059.6	1012.0	987.9	990.7	988.1	998.9	1068.1	1168.2	1055.2
45°	1210.8	1193.9	1116.5	1075.5	1064.2	1075.1	1080.3	1108.0	1203.8	1328.2	1184.8
47.5°	1290.2	1268.4	1178.8	1144.3	1150.5	1169.2	1183.8	1232.8	1352.5	1486.5	1316.8
50°	1363.4	1338.8	1245.3	1215.4	1245.9	1272.4	1303.0	1372.0	1510.7	1649.4	1438.1
52.5°	1417.4	1399.7	1312.0	1293.2	1355.5	1390.8	1439.5	1526.8	1670.6	1804.7	1546.3
55°	1459.3	1449.9	1376.9	1382.4	1479.5	1530.1	1589.0	1689.4	1839.8	1943.9	1633.4
57.5°	1507.7	1500.7	1451.2	1490.1	1633.4	1697.0	1766.5	1878.0	2000.7	2066.6	1701.6
60°	1558.9	1558.9	1533.9	1619.7	1825.8	1898.7	1968.0	2054.9	2161.1	2177.0	1729.3
62.5°	1597.5	1607.5	1616.5	1758.0	2008.6	2099.2	2175.2	2258.5	2327.2	2231.3	1664.1
65°	1653.5	1675.0	1725.6	1917.5	2234.9	2353.4	2456.1	2526.0	2461.8	2188.0	1451.2
67.5°	1749.8	1781.6	1889.2	2155.2	2581.2	2758.9	2858.5	2737.9	2435.6	1915.8	1111.6
70°	1836.5	1881.3	2065.5	2456.8	3031.5	3215.9	3169.8	2688.6	2121.2	1404.4	683.9
72°	1778.9	1827.8	2073.6	2588.0	3272.2	3359.2	3116.8	2382.8	1639.0	857.1	337.1
72.5°	1741.1	1791.8	2047.1	2584.8	3278.8	3340.9	3043.2	2261.3	1488.0	749.9	272.7
75°	1454.4	1498.0	1760.4	2290.9	2889.3	2775.1	2374.8	1463.3	683.9	242.3	140.3
77.5°	949.8	982.9	1213.8	1587.1	2023.8	1914.0	1445.5	685.1	256.3	147.1	105.6
80°	477.2	500.9	649.6	834.4	1092.2	1004.9	667.4	331.5	171.5	106.3	83.0
82.5°	332.1	353.8	447.3	426.1	456.6	441.8	313.8	276.6	128.4	67.2	43.5
85°	278.5	301.0	370.1	303.7	248.6	226.6	224.8	261.2	84.8	33.1	36.7
87.5°	242.8	277.0	305.3	221.9	170.5	150.3	165.6	239.6	26.9	18.2	11.1
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°	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7
2.5°	606.6	605.7	601.8	595.4	590.8	587.9	582.1	581.9	582.5	577.5	579.4
5°	589.5	586.2	575.6	561.3	549.6	538.4	526.1	522.0	518.5	511.1	512.0
7.5°	571.5	565.8	547.3	523.7	501.2	480.5	460.1	450.1	442.3	432.9	432.9
10°	560.9	552.0	523.7	489.1	453.3	423.1	392.6	374.5	361.1	348.8	348.1
12.5°	560.5	546.8	507.5	459.8	410.5	368.1	326.5	298.5	278.7	264.3	262.9
15°	564.8	545.7	493.8	432.4	370.3	315.1	263.7	228.1	202.8	186.8	185.2
17.5°	568.5	544.4	479.1	403.5	331.1	264.0	206.9	170.0	146.1	132.9	131.6
20°	572.1	541.4	460.3	373.1	287.9	216.1	161.8	132.0	116.2	108.8	107.9
22.5°	577.3	538.7	440.8	338.8	245.5	175.9	133.5	112.0	103.7	100.2	99.5
25°	585.6	539.0	421.8	303.7	206.7	146.6	115.5	102.2	97.6	95.2	95.2
27.5°	597.9	542.1	403.0	268.1	173.7	126.4	104.9	97.0	94.1	92.2	91.6
30°	615.9	548.1	383.0	234.4	147.6	112.6	98.8	93.9	91.4	89.7	89.4
32.5°	642.0	558.7	362.1	203.6	127.7	102.8	94.1	91.1	89.2	87.9	87.6
35°	680.8	577.5	341.7	177.5	113.6	95.7	90.3	87.9	86.7	86.1	85.9
37.5°	738.0	607.8	322.5	157.2	104.5	91.1	86.4	85.1	84.6	84.6	84.6
40°	809.7	647.4	305.1	142.7	99.3	87.6	83.7	82.6	82.6	83.0	83.0
42.5°	897.0	697.2	290.2	132.9	96.3	85.1	81.8	81.2	81.0	81.0	81.2
45°	998.5	756.0	280.9	125.4	94.1	83.7	80.5	80.2	79.1	78.6	78.6
47.5°	1100.5	818.7	280.4	121.0	91.4	82.1	79.1	79.1	77.0	75.8	76.1
50°	1195.6	874.9	286.3	120.0	89.7	79.7	77.8	78.1	75.1	73.8	73.4
52.5°	1272.3	918.0	293.7	121.4	89.7	77.6	75.3	76.6	73.4	71.8	71.5
55°	1331.6	947.9	296.4	124.2	90.8	75.5	73.1	75.3	72.9	70.6	70.6
57.5°	1374.0	957.5	284.8	125.7	92.4	75.3	71.0	75.1	73.8	71.0	71.0
60°	1358.4	902.2	241.1	120.5	92.2	74.7	69.3	75.5	76.4	73.4	73.4
62.5°	1237.4	754.8	193.7	108.8	87.6	72.9	67.5	75.1	78.3	77.3	76.6
65°	1007.4	553.6	150.0	95.0	79.7	68.8	63.4	70.2	74.0	75.1	75.3
67.5°	710.0	350.5	116.7	80.8	69.9	62.8	58.7	62.1	63.4	63.9	64.9
70°	388.2	189.8	92.7	68.0	59.7	56.9	53.9	54.1	53.5	53.0	53.5
72°	194.9	124.0	78.3	59.0	53.0	51.2	49.8	49.0	49.0	48.1	48.4
72.5°	167.8	115.3	75.5	56.9	51.5	49.8	48.7	47.9	47.6	47.0	47.3
75°	111.7	91.4	63.2	47.6	43.7	42.7	43.2	42.4	42.7	42.1	42.4
77.5°	90.3	78.6	53.5	40.2	37.5	35.9	37.0	37.3	37.8	37.3	37.0
80°	75.5	67.0	44.8	33.1	31.4	30.0	30.5	32.3	32.6	31.0	30.7
82.5°	49.0	53.9	35.4	25.8	24.0	23.4	24.8	26.6	27.2	25.1	24.4
85°	41.1	43.2	25.5	17.6	15.8	15.2	18.0	19.9	21.2	19.0	18.4
87.5°	11.4	21.2	12.4	8.4	7.0	7.0	8.8	10.3	12.2	12.4	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

(END OF REPORT)