

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: P199194

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199194  
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-SL3-8030-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 615mA 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: 3248 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

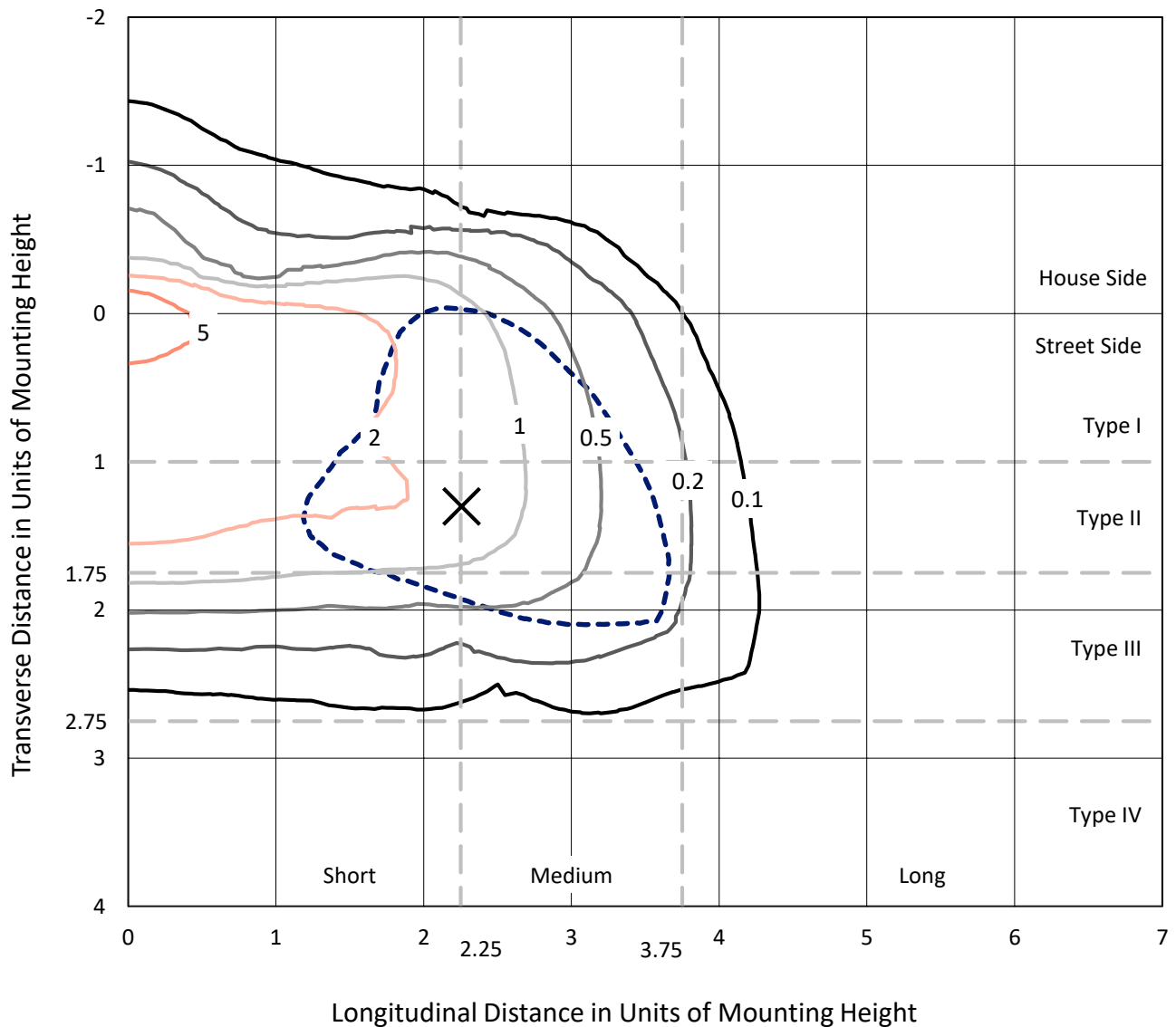
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P199194  
 CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

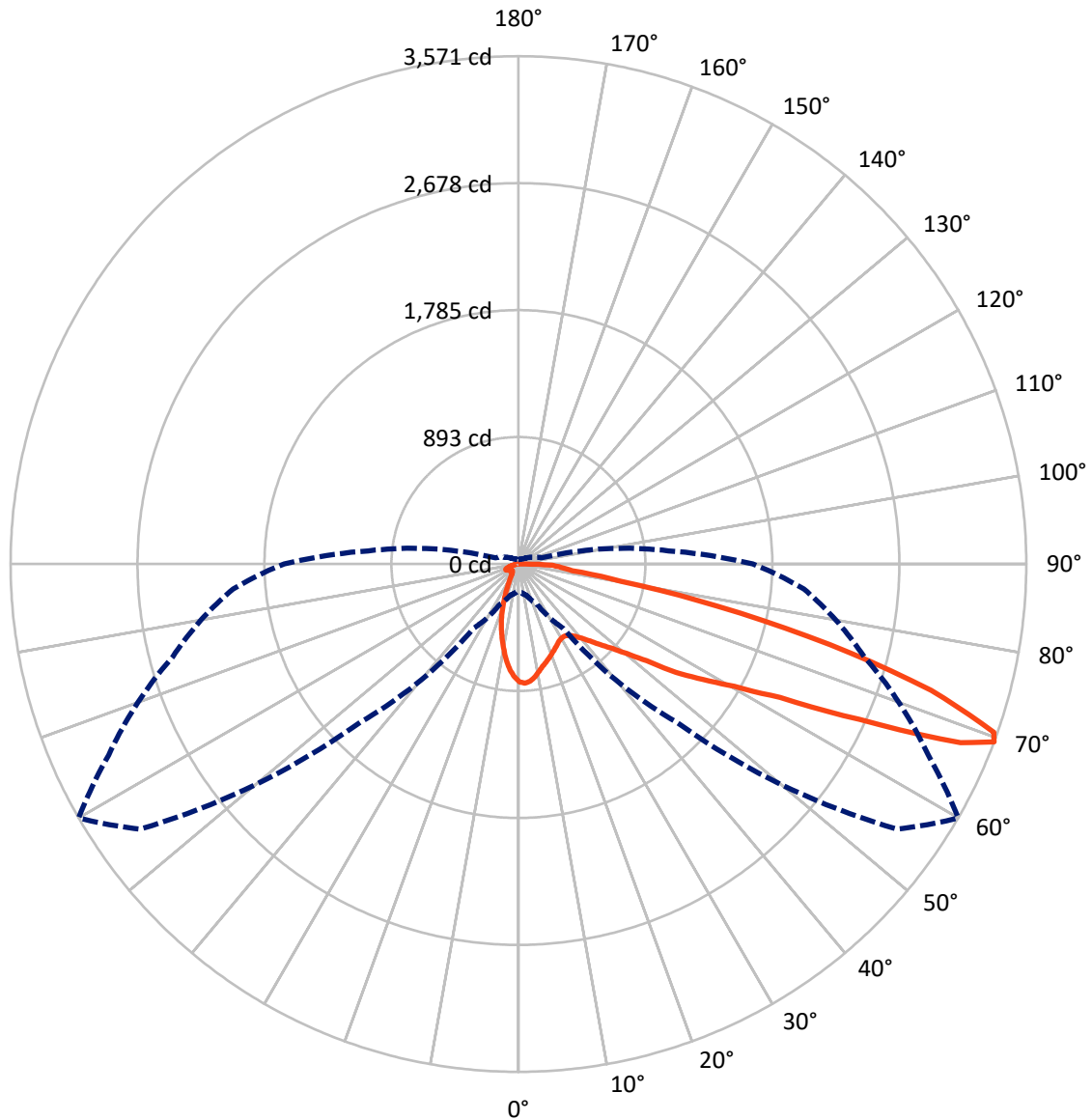
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199194  
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P199194

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	463.3	0.0	463.3
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	2784.7	0.0	2784.7
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	3248.0	0.0	3248.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	2.2
10°-20°	150.5	4.6
20°-30°	192.0	5.9
30°-40°	264.3	8.1
40°-50°	428.0	13.2
50°-60°	671.8	20.7
60°-70°	895.6	27.6
70°-80°	498.2	15.3
80°-90°	77.3	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°	3248.0	100.0
0°-180°	3248.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199194

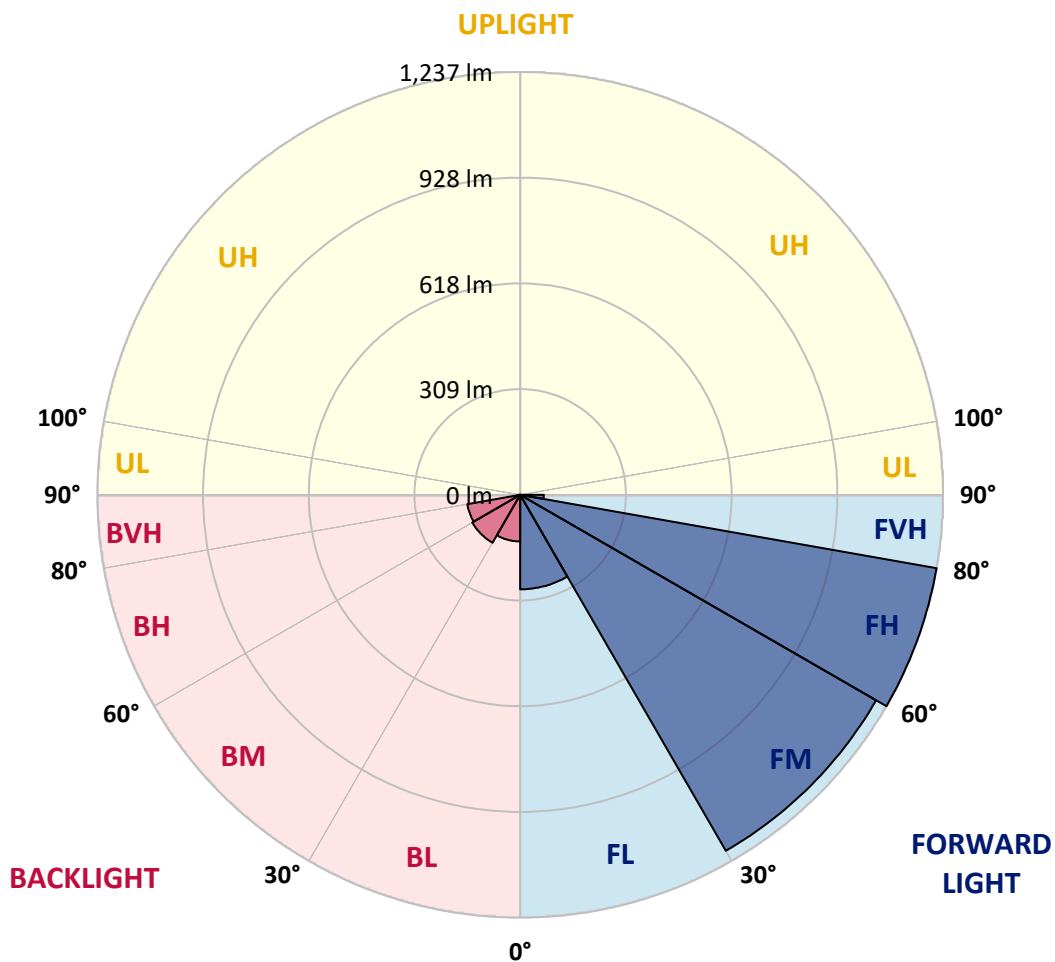
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.3	8.5			
FM	(30°-60°)	1202.2	37.0			
FH	(60°-80°)	1236.7	38.1			G1/1800
FVH	(80°-90°)	69.4	2.1			G1/100
BL	(0°-30°)	136.5	4.2	B1/500		
BM	(30°-60°)	161.8	5.0	B0/220		
BH	(60°-80°)	157.1	4.8	B1/500		G1/500
BVH	(80°-90°)	7.8	0.2			G0/10
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





REPORT NUMBER: P199194

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	850.8	853.1	853.1	851.2	850.2	844.2	840.6	838.1	833.7	825.6	818.3
5°	820.4	824.8	826.7	827.5	832.9	831.0	831.2	829.6	825.8	817.1	805.2
7.5°	764.6	765.4	768.8	774.4	787.5	796.7	804.2	805.6	804.8	798.3	781.7
10°	709.6	711.1	715.0	724.6	737.1	750.2	766.5	773.1	778.1	776.0	755.0
12.5°	664.0	664.2	668.6	679.6	693.6	710.0	732.1	742.5	754.4	759.2	735.6
15°	620.0	623.0	627.1	640.5	657.7	678.6	704.0	718.4	734.0	747.7	720.6
17.5°	586.7	589.0	591.5	602.5	622.5	648.6	680.0	695.4	716.1	737.1	705.2
20°	568.4	569.2	567.3	572.8	589.6	617.8	654.2	672.7	697.3	726.9	689.4
22.5°	564.6	564.6	557.8	556.7	564.2	588.0	627.5	650.2	680.2	719.8	675.2
25°	582.1	580.9	568.0	556.1	553.4	565.5	602.1	630.0	665.7	719.6	664.6
27.5°	615.3	613.6	597.5	577.6	560.3	555.1	582.6	611.1	654.2	726.7	659.2
30°	656.5	655.9	639.6	614.6	586.1	559.2	574.8	601.3	646.5	739.8	659.0
32.5°	701.7	698.8	688.8	663.8	626.7	582.3	579.4	601.7	644.4	759.0	663.8
35°	749.8	747.7	745.2	720.0	678.4	623.2	599.6	616.1	654.6	785.6	677.3
37.5°	811.0	808.7	812.9	785.4	739.8	676.7	633.8	644.8	675.4	824.4	702.5
40°	920.0	913.3	901.6	859.4	811.5	742.3	683.2	684.8	711.1	876.2	742.9
42.5°	1098.9	1077.4	1019.7	942.0	887.1	818.5	747.5	739.6	760.2	944.7	801.7
45°	1278.2	1254.0	1156.6	1032.2	965.4	900.4	827.1	808.1	821.4	1024.5	877.3
47.5°	1394.0	1382.1	1272.2	1122.4	1047.4	989.5	918.1	886.8	896.4	1114.9	970.6
50°	1428.0	1417.7	1331.3	1193.0	1124.9	1097.2	1030.8	989.3	991.0	1220.5	1082.4
52.5°	1402.5	1398.4	1341.1	1236.8	1196.1	1210.7	1186.8	1129.1	1115.3	1336.3	1203.6
55°	1368.6	1370.1	1348.0	1280.7	1268.6	1316.5	1390.9	1344.4	1286.1	1456.9	1329.9
57.5°	1261.7	1262.8	1320.7	1364.4	1406.9	1464.8	1549.8	1530.2	1462.3	1587.1	1471.3
60°	1016.0	1024.1	1153.0	1347.1	1565.0	1757.0	1777.9	1744.1	1649.8	1737.0	1655.2
62.5°	725.8	733.1	882.5	1169.5	1546.5	2087.8	2199.0	2064.9	1904.1	1961.4	1913.9
65°	381.4	380.1	495.7	808.1	1302.6	2164.4	2862.6	2634.3	2332.5	2269.8	2163.8
67.5°	213.1	219.9	264.7	407.6	848.9	1904.9	3286.4	3353.7	2928.2	2514.5	2153.0
69°	197.0	199.3	229.3	315.1	553.4	1571.7	3250.0	3570.9	3179.4	2515.6	2014.3
70°	191.4	193.9	221.2	290.3	464.9	1287.8	3117.3	3545.5	3240.4	2459.8	1888.0
72.5°	171.6	175.0	201.4	261.0	391.8	663.8	2511.0	3034.6	2935.3	2149.8	1464.0
75°	146.4	152.0	192.0	259.1	371.2	422.0	1674.6	2260.9	2184.6	1537.5	830.6
77.5°	60.6	61.2	83.9	189.7	389.5	403.9	900.0	1432.1	1267.8	674.2	250.1
80°	42.3	41.4	41.9	55.4	314.3	406.6	461.8	728.3	566.1	177.9	117.1
82.5°	35.6	35.2	36.9	34.8	106.4	461.3	386.1	379.7	266.6	95.8	55.8
85°	23.5	22.9	30.2	31.7	50.6	366.4	415.3	298.5	198.7	51.2	23.7
87.5°	11.5	11.7	17.3	21.5	26.9	116.0	397.8	236.0	153.5	22.3	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199194

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	815.4	809.2	803.5	796.5	791.0	786.5	780.2	780.0	779.0	780.4	780.8
5°	797.3	786.9	771.0	753.3	740.8	724.4	708.4	702.9	696.9	696.3	698.1
7.5°	770.0	753.8	726.7	699.6	672.5	644.8	618.6	605.3	592.3	588.4	590.3
10°	739.6	719.0	677.5	633.4	595.3	554.0	514.0	488.2	464.7	454.7	457.2
12.5°	715.9	689.6	631.3	574.0	516.9	457.8	405.1	354.1	315.5	298.3	299.3
15°	695.4	661.9	588.0	511.7	440.3	359.3	286.2	227.0	193.3	180.8	180.4
17.5°	673.4	632.7	542.8	453.8	361.2	261.0	191.6	156.6	143.3	139.1	139.1
20°	649.8	602.8	495.5	390.7	277.8	182.2	144.1	130.6	125.6	124.3	124.1
22.5°	628.0	573.4	448.0	323.5	201.0	138.3	122.7	117.5	116.6	117.7	117.7
25°	610.7	547.6	399.9	252.6	146.2	115.8	109.1	108.5	111.6	115.4	116.0
27.5°	597.8	524.4	352.4	184.5	115.0	100.8	98.5	101.2	108.5	116.0	117.5
30°	588.8	504.7	295.5	132.7	95.8	88.3	89.4	94.1	105.2	116.6	119.8
32.5°	584.8	488.6	238.3	101.8	81.9	77.7	80.4	86.6	98.1	109.6	113.3
35°	588.6	477.0	185.4	84.6	71.6	68.5	71.6	78.1	85.6	91.2	93.5
37.5°	602.1	472.8	139.5	75.0	65.0	61.9	64.4	68.7	72.1	74.1	75.2
40°	630.7	477.2	109.3	70.0	61.2	57.7	58.3	60.4	62.7	64.4	64.6
42.5°	676.1	491.5	97.3	68.1	58.9	54.4	53.3	54.8	57.3	59.6	60.0
45°	736.5	515.5	96.0	68.7	57.9	51.7	49.6	51.0	54.4	58.1	58.7
47.5°	814.6	553.4	101.8	72.1	58.5	50.2	47.1	48.5	52.9	57.9	58.7
50°	907.0	605.9	112.7	77.1	61.4	50.2	46.0	47.3	51.9	57.5	58.3
52.5°	1016.0	679.0	123.9	82.1	65.6	52.1	46.4	46.2	50.4	55.6	56.7
55°	1136.2	769.8	134.8	86.4	67.9	54.6	47.5	45.0	48.3	52.5	53.3
57.5°	1277.6	894.1	153.7	90.6	69.1	56.4	48.7	43.7	45.6	48.5	49.2
60°	1469.4	1076.8	190.6	97.7	71.4	57.3	48.9	42.5	42.3	44.4	44.6
62.5°	1719.5	1290.7	225.8	106.0	76.0	57.5	48.1	41.7	39.6	40.2	40.2
65°	1897.4	1369.4	215.6	113.1	80.2	57.3	47.3	41.0	37.5	36.4	36.4
67.5°	1796.2	1209.7	183.1	115.0	80.6	55.0	45.4	39.6	35.6	33.1	33.1
69°	1647.5	1060.3	168.1	111.6	77.3	52.3	43.3	38.1	34.4	31.4	31.4
70°	1526.3	947.2	158.9	107.7	73.3	50.0	41.4	36.7	33.1	30.6	30.4
72.5°	1139.5	632.1	135.8	92.9	60.2	42.3	36.2	32.7	29.8	28.1	28.1
75°	601.3	316.8	111.2	75.8	46.4	33.7	29.8	27.5	25.8	25.6	25.4
77.5°	197.0	143.3	80.0	57.1	34.2	26.2	23.7	22.3	22.1	22.9	22.9
80°	106.4	85.6	51.4	38.5	23.7	19.6	18.3	18.1	18.7	20.0	20.0
82.5°	51.7	42.3	30.6	23.7	16.2	14.4	14.4	14.6	15.4	16.9	16.9
85°	22.3	20.0	17.7	13.3	10.0	9.0	10.2	11.2	11.9	12.9	13.3
87.5°	10.6	9.4	8.1	5.2	4.4	4.6	5.4	6.7	7.9	8.7	9.0
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)