

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: P198554

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198554  
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-SL3-7030-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 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: 3523 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

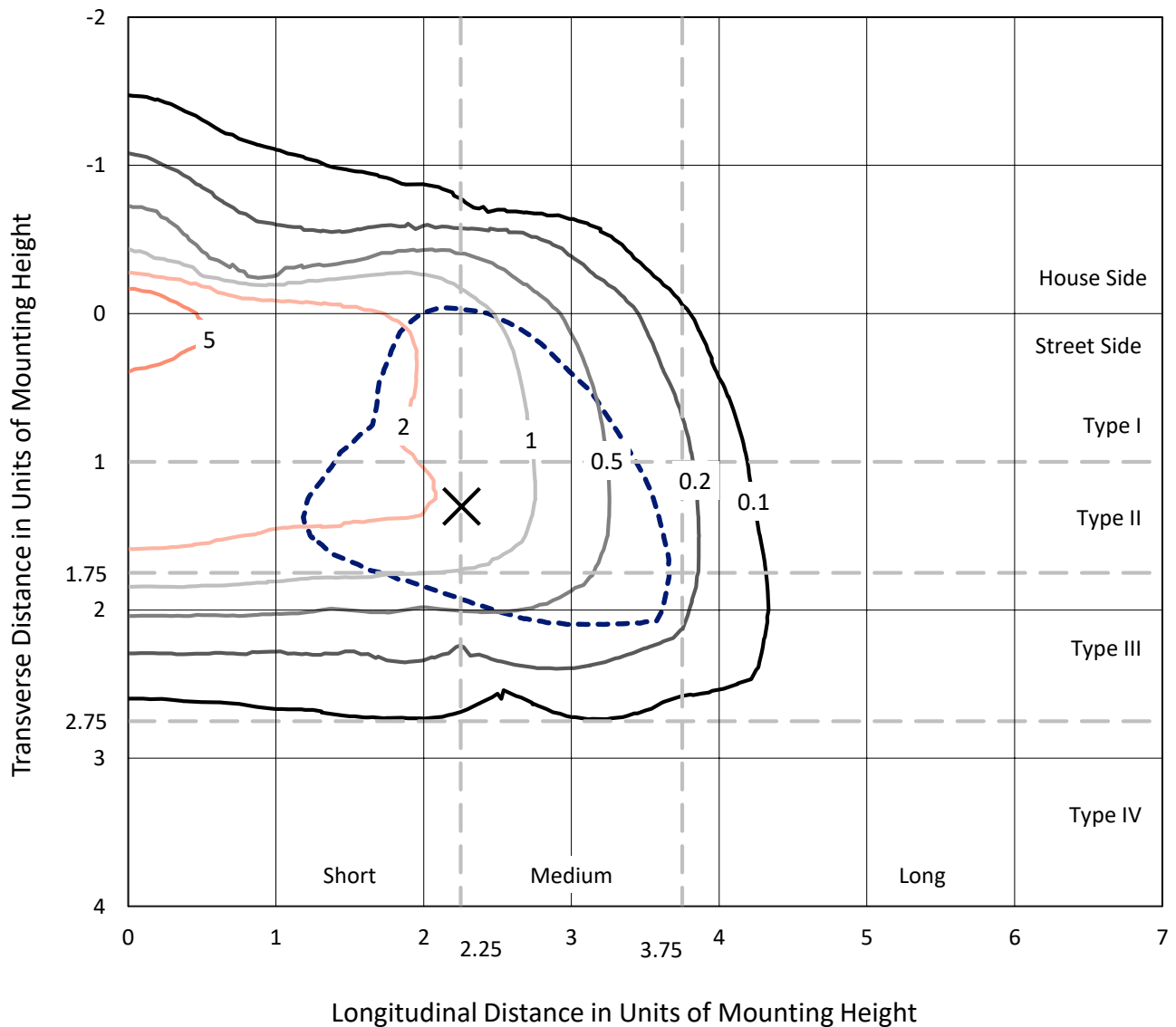
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

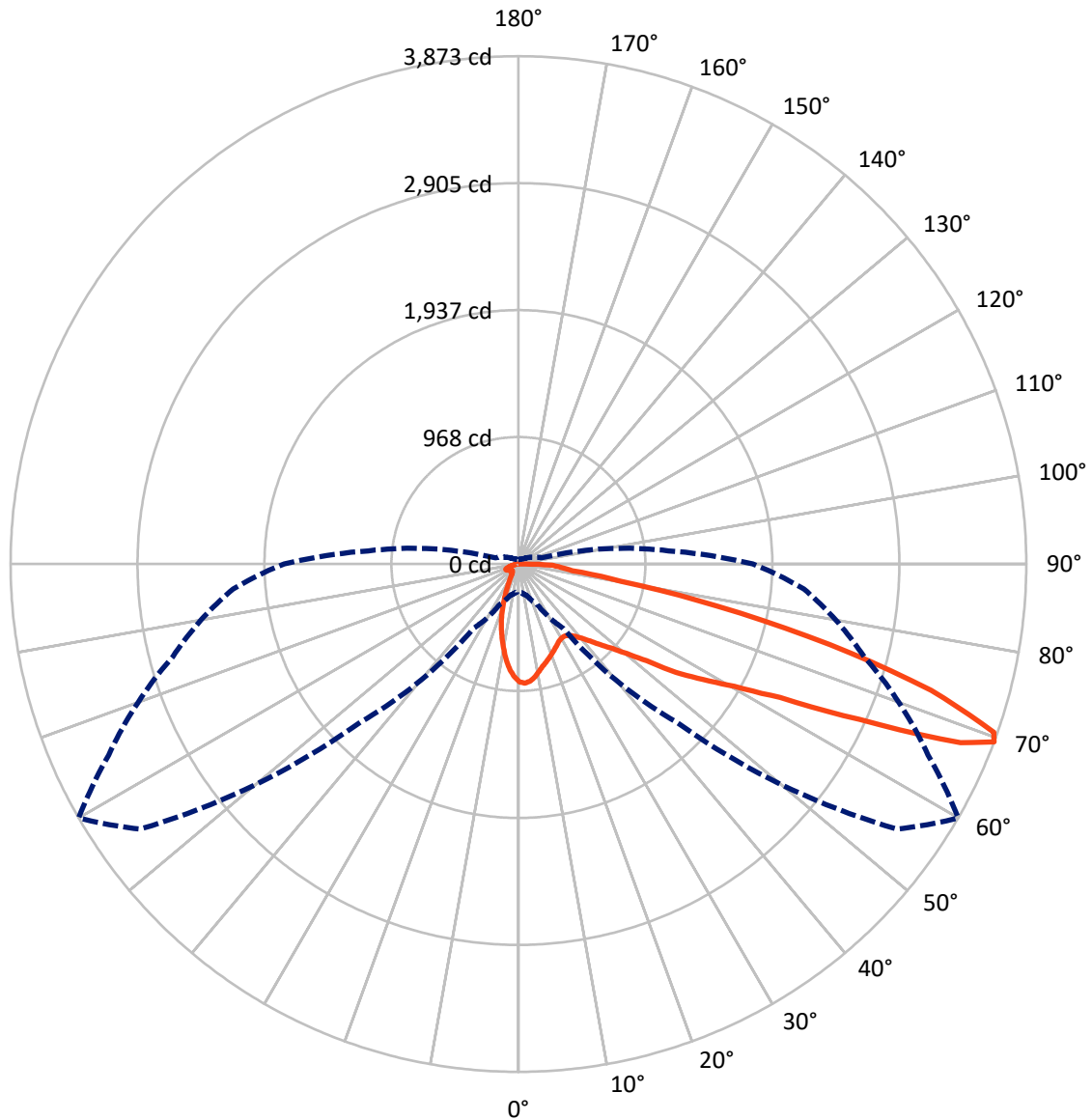
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	502.5	0.0	502.5
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	3020.5	0.0	3020.5
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	3523.0	0.0	3523.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.3	2.2
10°-20°	163.3	4.6
20°-30°	208.3	5.9
30°-40°	286.6	8.1
40°-50°	464.3	13.2
50°-60°	728.7	20.7
60°-70°	971.4	27.6
70°-80°	540.3	15.3
80°-90°	83.8	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°	3523.0	100.0
0°-180°	3523.0	100.0



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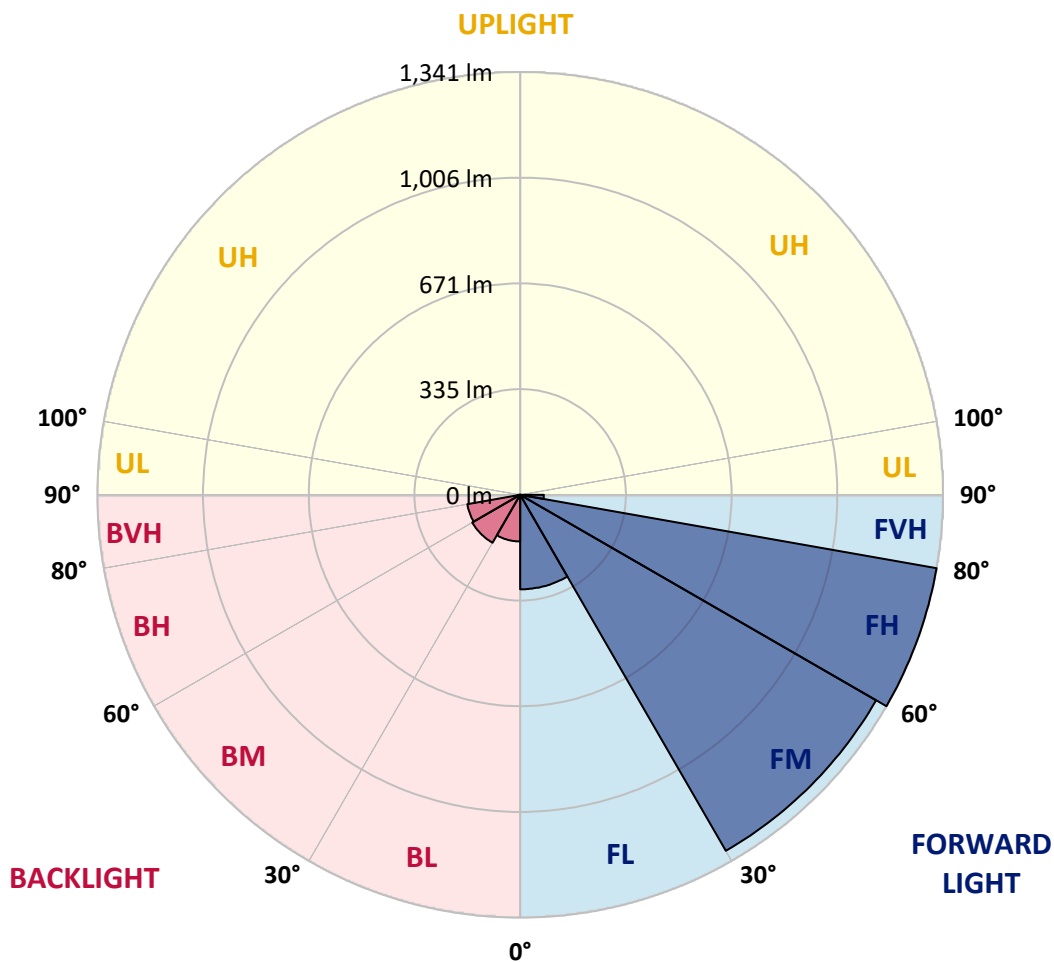
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.7	8.5			
FM	(30°-60°)	1304.0	37.0			
FH	(60°-80°)	1341.4	38.1			G1/1800
FVH	(80°-90°)	75.3	2.1			G1/100
BL	(0°-30°)	148.1	4.2	B1/500		
BM	(30°-60°)	175.5	5.0	B0/220		
BH	(60°-80°)	170.4	4.8	B1/500		G1/500
BVH	(80°-90°)	8.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9
2.5°	922.9	925.3	925.3	923.3	922.2	915.6	911.8	909.1	904.3	895.5	887.6
5°	889.9	894.6	896.6	897.5	903.4	901.4	901.6	899.8	895.7	886.3	873.4
7.5°	829.3	830.2	833.8	839.9	854.2	864.1	872.2	873.8	872.9	865.9	847.8
10°	769.7	771.3	775.6	785.9	799.5	813.7	831.4	838.6	844.0	841.7	818.9
12.5°	720.2	720.4	725.2	737.2	752.3	770.1	794.1	805.4	818.3	823.4	797.9
15°	672.5	675.7	680.2	694.7	713.4	736.0	763.6	779.2	796.1	811.0	781.7
17.5°	636.4	638.9	641.6	653.6	675.3	703.5	737.6	754.3	776.7	799.5	764.9
20°	616.5	617.4	615.4	621.3	639.6	670.1	709.6	729.7	756.4	788.4	747.8
22.5°	612.4	612.4	605.0	603.9	612.0	637.8	680.7	705.3	737.8	780.8	732.4
25°	631.4	630.1	616.1	603.2	600.2	613.4	653.1	683.4	722.0	780.5	720.9
27.5°	667.3	665.5	648.1	626.5	607.7	602.1	631.9	662.8	709.6	788.2	715.0
30°	712.1	711.4	693.8	666.7	635.7	606.6	623.5	652.2	701.2	802.4	714.8
32.5°	761.1	757.9	747.1	720.0	679.8	631.7	628.5	652.7	699.0	823.2	720.0
35°	813.3	811.0	808.3	781.0	735.8	675.9	650.4	668.2	710.0	852.1	734.7
37.5°	879.7	877.2	881.7	851.9	802.4	734.0	687.5	699.4	732.6	894.2	762.0
40°	997.9	990.6	978.0	932.1	880.2	805.2	741.0	742.8	771.3	950.4	805.8
42.5°	1191.9	1168.6	1106.1	1021.8	962.2	887.8	810.8	802.2	824.6	1024.7	869.5
45°	1386.4	1360.2	1254.5	1119.6	1047.1	976.6	897.1	876.5	891.0	1111.3	951.5
47.5°	1512.0	1499.2	1379.9	1217.4	1136.1	1073.3	995.8	961.9	972.3	1209.3	1052.8
50°	1548.9	1537.8	1444.0	1294.0	1220.2	1190.1	1118.0	1073.1	1074.9	1323.8	1174.1
52.5°	1521.3	1516.8	1454.6	1341.5	1297.4	1313.2	1287.2	1224.7	1209.8	1449.5	1305.5
55°	1484.5	1486.1	1462.1	1389.1	1376.0	1428.0	1508.6	1458.3	1395.0	1580.3	1442.4
57.5°	1368.6	1369.7	1432.5	1480.0	1526.0	1588.8	1681.0	1659.8	1586.1	1721.5	1595.8
60°	1102.0	1110.8	1250.6	1461.2	1697.5	1905.8	1928.4	1891.8	1789.5	1884.1	1795.3
62.5°	787.3	795.2	957.2	1268.5	1677.4	2264.5	2385.2	2239.7	2065.3	2127.4	2075.9
65°	413.6	412.3	537.7	876.5	1412.9	2347.7	3104.9	2857.3	2530.0	2462.0	2347.0
67.5°	231.1	238.6	287.1	442.1	920.8	2066.2	3564.7	3637.6	3176.1	2727.4	2335.3
69°	213.7	216.2	248.7	341.8	600.2	1704.7	3525.1	3873.3	3448.5	2728.6	2184.8
70°	207.6	210.3	239.9	314.9	504.2	1396.8	3381.2	3845.7	3514.7	2668.0	2047.9
72.5°	186.2	189.8	218.5	283.1	424.9	720.0	2723.6	3291.5	3183.8	2331.9	1587.9
75°	158.8	164.9	208.3	281.0	402.6	457.7	1816.3	2452.3	2369.6	1667.7	900.9
77.5°	65.7	66.4	91.0	205.8	422.5	438.0	976.2	1553.4	1375.1	731.3	271.3
80°	45.9	45.0	45.4	60.1	340.9	441.0	500.8	790.0	614.0	192.9	127.0
82.5°	38.6	38.2	40.0	37.7	115.4	500.4	418.8	411.8	289.2	103.9	60.5
85°	25.5	24.9	32.8	34.3	54.9	397.4	450.5	323.7	215.5	55.6	25.8
87.5°	12.4	12.7	18.8	23.3	29.1	125.8	431.5	256.0	166.5	24.2	10.4
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°	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9
2.5°	884.4	877.7	871.6	863.9	858.0	853.0	846.3	846.0	844.9	846.5	846.9
5°	864.8	853.5	836.3	817.1	803.6	785.7	768.3	762.5	755.9	755.2	757.3
7.5°	835.2	817.6	788.2	758.8	729.5	699.4	671.0	656.5	642.5	638.2	640.2
10°	802.2	779.8	734.9	687.0	645.7	600.9	557.6	529.5	504.0	493.2	495.9
12.5°	776.5	748.0	684.7	622.6	560.7	496.6	439.4	384.1	342.3	323.5	324.6
15°	754.3	717.9	637.8	555.1	477.6	389.7	310.4	246.2	209.6	196.1	195.6
17.5°	730.4	686.3	588.7	492.3	391.7	283.1	207.8	169.9	155.4	150.9	150.9
20°	704.8	653.8	537.4	423.8	301.4	197.7	156.3	141.6	136.2	134.9	134.6
22.5°	681.1	621.9	485.9	350.8	218.0	150.0	133.1	127.4	126.5	127.6	127.6
25°	662.4	593.9	433.8	274.0	158.6	125.6	118.4	117.7	121.1	125.2	125.8
27.5°	648.4	568.8	382.2	200.2	124.7	109.3	106.9	109.8	117.7	125.8	127.4
30°	638.7	547.4	320.6	143.9	103.9	95.8	96.9	102.1	114.1	126.5	129.9
32.5°	634.4	530.0	258.4	110.5	88.8	84.3	87.2	94.0	106.4	118.8	122.9
35°	638.4	517.3	201.1	91.7	77.7	74.3	77.7	84.7	92.8	98.9	101.4
37.5°	653.1	512.8	151.4	81.3	70.5	67.1	69.8	74.6	78.2	80.4	81.6
40°	684.1	517.6	118.6	75.9	66.4	62.6	63.3	65.5	68.0	69.8	70.0
42.5°	733.3	533.2	105.5	73.9	63.9	59.0	57.8	59.4	62.1	64.6	65.1
45°	798.8	559.1	104.1	74.6	62.8	56.0	53.8	55.3	59.0	63.0	63.7
47.5°	883.5	600.2	110.5	78.2	63.5	54.4	51.1	52.6	57.4	62.8	63.7
50°	983.8	657.2	122.2	83.6	66.6	54.4	49.9	51.3	56.3	62.4	63.3
52.5°	1102.0	736.5	134.4	89.0	71.2	56.5	50.4	50.2	54.7	60.3	61.4
55°	1232.4	835.0	146.2	93.8	73.6	59.2	51.5	48.8	52.4	56.9	57.8
57.5°	1385.7	969.8	166.7	98.3	75.0	61.2	52.9	47.4	49.5	52.6	53.3
60°	1593.8	1168.0	206.7	106.0	77.5	62.1	53.1	46.1	45.9	48.1	48.3
62.5°	1865.1	1400.0	244.9	115.0	82.5	62.4	52.2	45.2	42.9	43.6	43.6
65°	2058.1	1485.4	233.8	122.7	87.0	62.1	51.3	44.5	40.7	39.5	39.5
67.5°	1948.3	1312.1	198.6	124.7	87.4	59.6	49.2	42.9	38.6	35.9	35.9
69°	1787.0	1150.1	182.3	121.1	83.8	56.7	47.0	41.3	37.3	34.1	34.1
70°	1655.5	1027.4	172.4	116.8	79.5	54.2	45.0	39.8	35.9	33.2	33.0
72.5°	1236.0	685.6	147.3	100.8	65.3	45.9	39.3	35.5	32.3	30.5	30.5
75°	652.2	343.6	120.6	82.2	50.4	36.6	32.3	29.8	28.0	27.8	27.6
77.5°	213.7	155.4	86.8	61.9	37.0	28.5	25.8	24.2	23.9	24.9	24.9
80°	115.4	92.8	55.8	41.8	25.8	21.2	19.9	19.7	20.3	21.7	21.7
82.5°	56.0	45.9	33.2	25.8	17.6	15.6	15.6	15.8	16.7	18.3	18.3
85°	24.2	21.7	19.2	14.5	10.8	9.7	11.1	12.2	12.9	14.0	14.5
87.5°	11.5	10.2	8.8	5.6	4.7	5.0	5.9	7.2	8.6	9.5	9.7
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)