

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: P199178

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3188 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

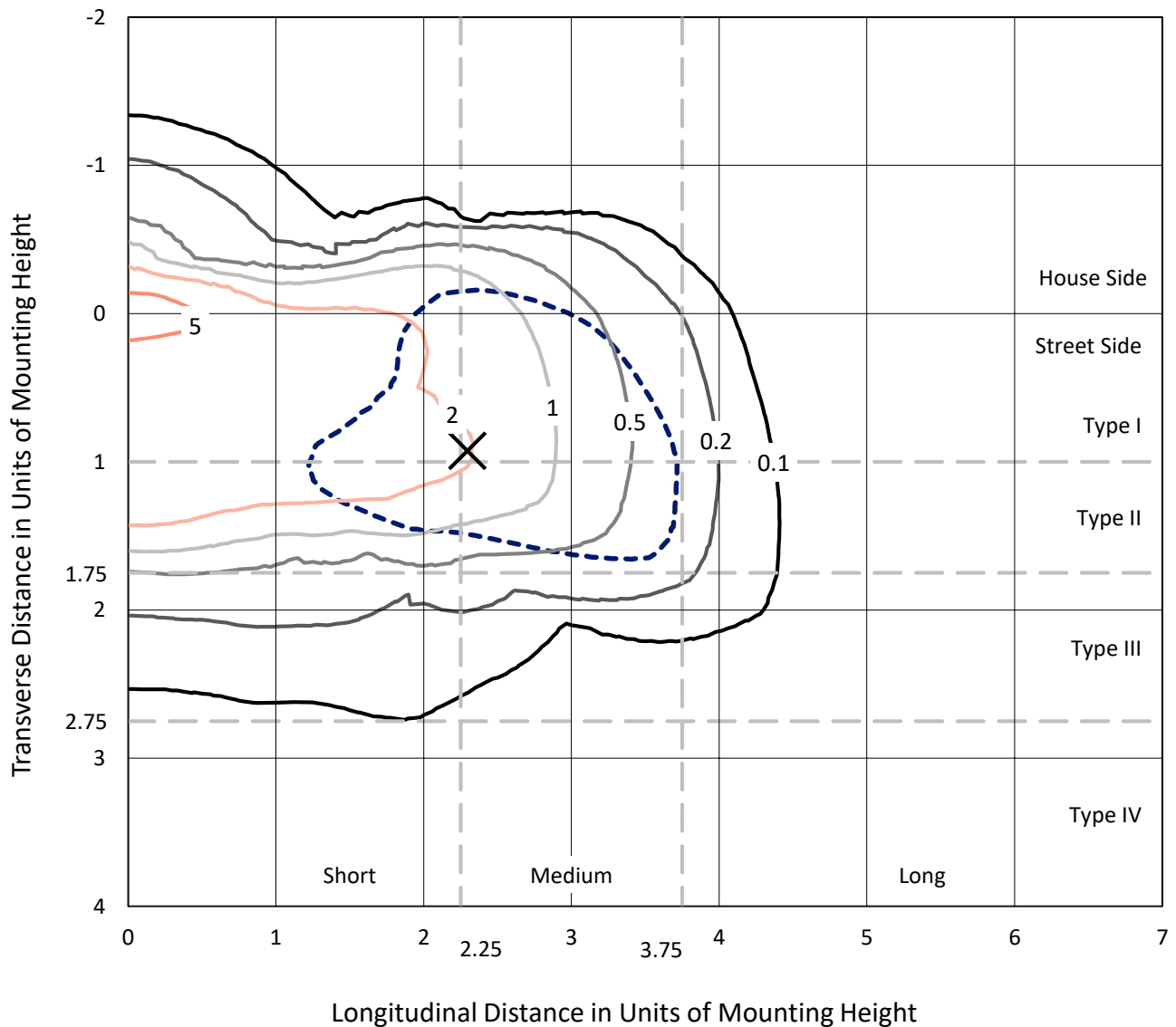
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

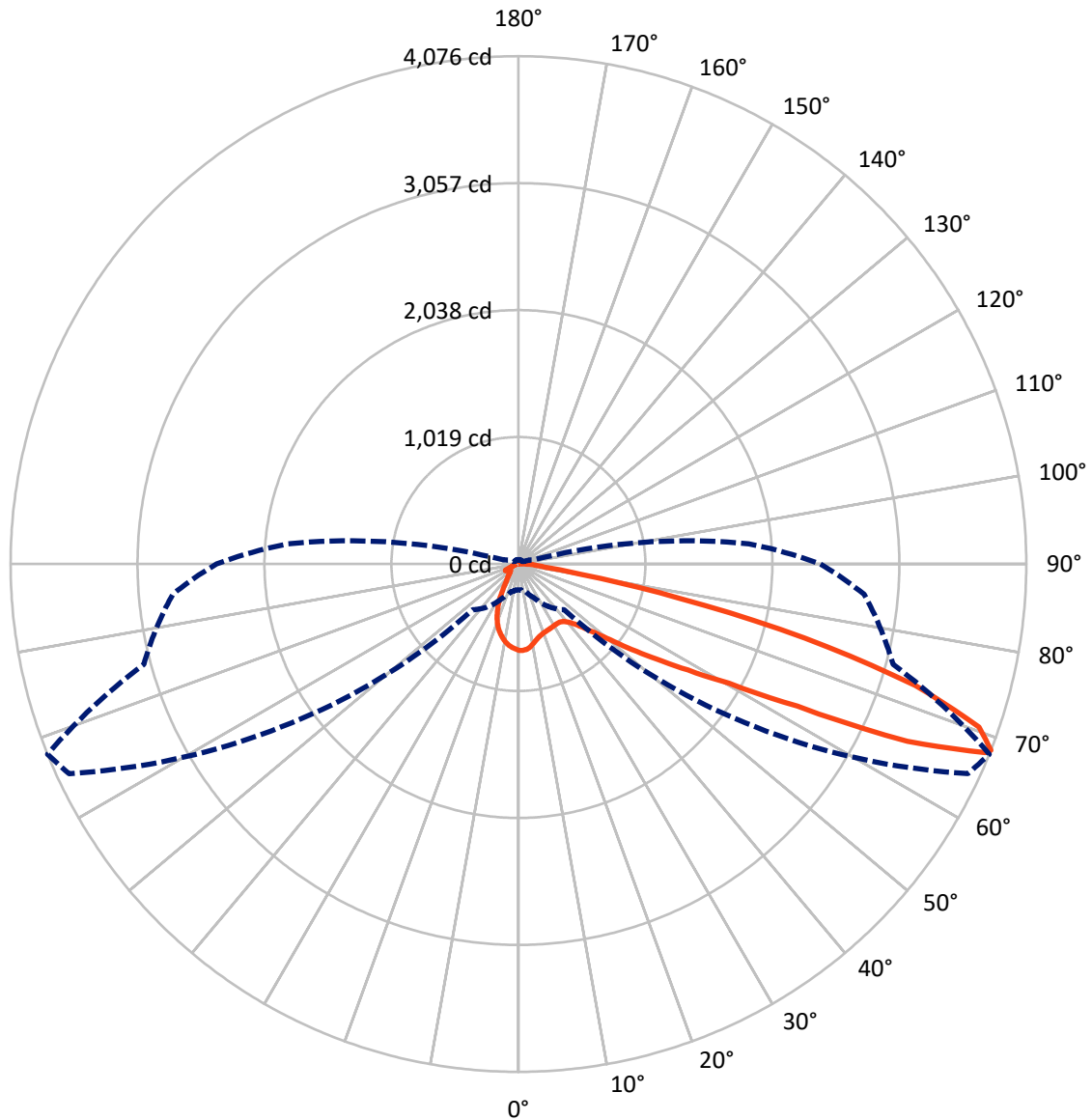
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.6	0.0	521.6
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	2666.4	0.0	2666.4
	% Fixture	83.6	0.0	83.6
Total	Lumens	3188.0	0.0	3188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.9
10°-20°	137.9	4.3
20°-30°	186.4	5.8
30°-40°	262.9	8.2
40°-50°	432.3	13.6
50°-60°	670.1	21.0
60°-70°	868.8	27.3
70°-80°	498.5	15.6
80°-90°	71.7	2.2
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°	3188.0	100.0
0°-180°	3188.0	100.0

Coefficient of Utilization



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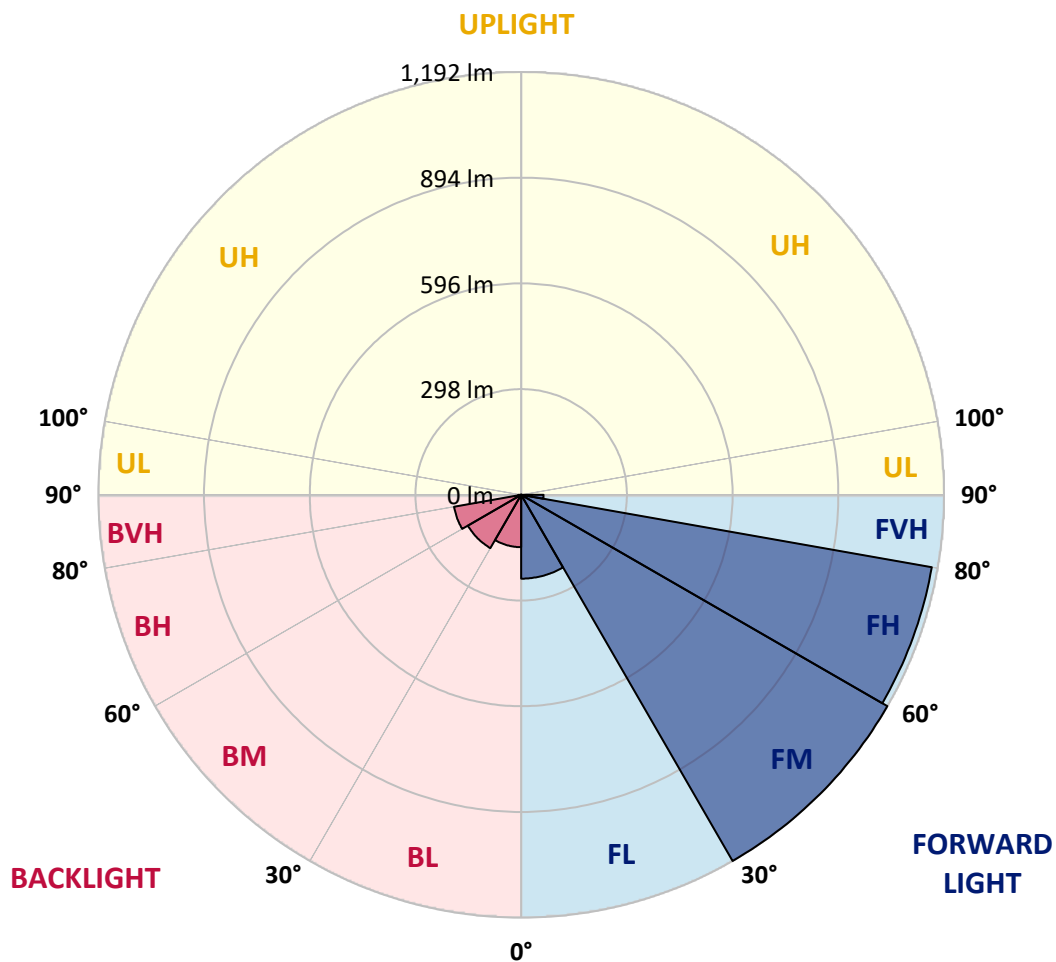
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.3	7.4			
FM	(30°-60°)	1191.7	37.4			
FH	(60°-80°)	1175.2	36.9			G1/1800
FVH	(80°-90°)	63.2	2.0			G1/100
BL	(0°-30°)	147.5	4.6	B1/500		
BM	(30°-60°)	173.5	5.4	B0/220		
BH	(60°-80°)	192.1	6.0	B1/500		G1/500
BVH	(80°-90°)	8.5	0.3			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7
2.5°	675.1	680.6	680.6	684.5	688.1	691.0	693.5	693.5	693.5	691.8	690.3
5°	604.1	611.4	612.5	622.5	635.6	651.6	669.5	685.4	688.5	694.3	696.6
7.5°	554.8	557.1	561.0	567.9	581.2	601.0	629.1	664.5	673.1	691.4	701.0
10°	519.8	521.7	525.0	531.9	543.9	561.9	589.6	635.6	649.7	682.2	701.2
12.5°	494.2	495.6	498.8	505.0	517.3	533.3	561.6	609.5	627.0	673.1	704.1
15°	474.2	476.7	479.2	485.2	497.7	513.1	541.9	590.6	609.5	665.8	709.5
17.5°	466.3	467.5	467.9	471.1	482.3	497.9	526.7	577.3	596.8	659.9	713.7
20°	471.3	471.5	467.3	465.2	471.7	486.1	514.0	567.3	587.3	654.7	715.3
22.5°	493.1	493.1	482.3	473.1	468.8	477.7	505.4	560.4	582.1	650.8	715.3
25°	534.8	532.9	516.0	497.9	478.6	474.8	500.0	556.0	578.1	648.7	712.6
27.5°	589.6	587.9	566.4	539.6	504.6	481.1	498.1	552.5	574.1	645.6	706.8
30°	656.2	654.7	630.4	595.2	543.5	500.8	502.5	550.0	571.0	640.4	697.0
32.5°	722.6	721.8	702.4	666.4	597.3	534.4	514.0	549.6	569.4	634.1	685.1
35°	789.5	789.5	777.6	747.2	669.5	584.8	537.9	557.3	572.5	630.8	674.9
37.5°	888.2	884.2	862.2	830.7	760.5	650.2	576.6	573.5	584.6	636.4	671.6
40°	1041.0	1029.6	974.4	921.5	859.9	733.9	633.3	605.0	611.6	655.6	679.5
42.5°	1201.0	1182.9	1109.8	1025.2	962.5	837.2	707.6	656.0	655.8	692.6	704.7
45°	1338.2	1328.8	1249.7	1142.5	1079.8	953.4	801.6	731.8	724.3	750.1	753.2
47.5°	1418.0	1411.7	1364.0	1266.6	1218.9	1090.6	920.7	837.0	822.8	838.2	833.4
50°	1395.9	1401.9	1388.2	1338.4	1368.4	1283.4	1072.5	981.1	954.2	969.6	957.9
52.5°	1279.7	1295.9	1308.2	1317.8	1454.4	1541.5	1263.2	1161.0	1138.7	1136.0	1124.8
55°	1070.4	1096.2	1135.0	1205.4	1431.3	1748.7	1596.4	1378.6	1346.1	1329.1	1333.4
57.5°	728.5	767.6	851.1	985.0	1311.1	1837.0	2089.2	1659.8	1604.8	1544.0	1558.1
60°	401.3	434.0	533.3	668.3	1036.9	1823.9	2525.9	2116.7	1943.6	1782.4	1811.6
62.5°	259.7	266.8	340.7	456.5	636.4	1610.2	2768.5	2880.3	2513.6	2096.9	2137.9
65°	208.7	213.7	249.9	368.2	443.4	1035.8	2779.3	3672.5	3430.7	2524.2	2525.4
67.5°	203.9	206.2	227.2	309.7	415.9	563.9	2402.4	3984.9	4040.9	3028.6	2784.7
68°	206.8	209.5	230.7	300.1	415.7	519.8	2220.4	3980.1	4076.1	3112.9	2784.7
70°	182.4	185.8	235.3	310.5	398.0	446.9	1520.4	3768.7	3923.2	3306.8	2642.3
72.5°	95.4	92.7	116.4	245.1	447.9	465.6	803.2	3148.5	3328.9	3062.5	2282.8
75°	74.3	67.7	65.2	96.8	394.0	482.9	466.5	2237.9	2374.0	2207.7	1525.8
77.5°	70.0	61.9	57.1	57.3	173.5	502.5	377.3	1317.0	1317.0	1053.1	486.9
80°	56.2	48.7	45.6	52.1	83.7	463.1	393.8	600.2	511.9	272.2	134.1
82.5°	37.1	33.1	33.3	42.3	63.5	309.3	456.1	296.3	222.6	120.6	78.9
85°	23.5	20.2	22.5	29.6	47.5	137.9	451.5	206.0	147.4	67.7	39.4
87.5°	11.9	9.2	11.2	15.4	28.9	39.6	371.7	183.9	109.3	28.1	21.4
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°	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7	693.7
2.5°	690.3	685.8	683.5	679.7	675.1	670.6	667.4	666.0	665.2	665.6	665.4
5°	695.3	689.3	679.5	665.6	651.2	636.0	624.3	615.4	609.8	608.1	607.7
7.5°	699.1	690.3	672.0	646.6	622.0	595.4	572.7	554.6	542.3	536.7	536.5
10°	698.5	687.2	658.3	620.8	584.8	545.6	510.0	479.6	457.5	446.9	446.5
12.5°	699.1	683.7	641.4	590.6	539.0	482.9	430.0	382.8	349.9	334.2	333.6
15°	701.6	679.9	624.1	556.9	485.4	406.3	330.7	271.3	241.4	231.2	231.2
17.5°	701.4	673.7	604.1	517.7	421.9	315.9	225.7	189.1	186.2	195.5	197.0
20°	697.2	663.7	578.3	471.3	347.4	218.7	153.1	147.9	171.2	197.0	199.9
22.5°	690.8	650.8	548.5	417.3	260.5	142.4	118.1	126.0	157.6	189.7	194.3
25°	681.8	635.2	514.4	354.6	173.3	102.5	98.5	108.3	130.6	152.0	155.4
27.5°	668.7	615.4	477.1	286.8	110.6	84.3	85.8	92.7	102.3	111.4	113.3
30°	652.2	592.3	436.5	211.6	83.9	75.4	77.9	82.1	86.2	92.0	93.3
32.5°	635.6	568.7	394.2	145.4	73.3	70.6	73.1	75.4	78.9	82.9	83.7
35°	620.6	546.9	350.7	101.4	68.7	67.5	68.7	70.2	73.7	77.7	78.1
37.5°	609.8	529.0	305.3	80.2	66.0	64.8	65.4	66.0	70.2	76.0	76.6
40°	608.3	517.1	259.3	72.1	63.9	62.3	61.9	62.3	67.7	74.3	75.0
42.5°	622.5	517.7	214.3	68.7	62.3	60.4	58.7	59.6	64.3	69.6	70.0
45°	656.0	532.3	175.3	67.3	60.8	59.4	56.9	57.3	59.6	62.3	62.7
47.5°	715.1	564.1	145.6	66.4	59.6	58.3	55.2	53.9	54.1	55.6	55.6
50°	809.7	617.5	127.4	65.6	58.5	56.2	52.7	50.2	49.6	50.4	50.6
52.5°	950.7	708.9	118.7	63.9	56.6	53.5	49.6	47.1	46.0	46.9	46.9
55°	1141.2	854.9	114.5	61.6	54.4	50.2	46.6	44.6	43.7	44.4	44.4
57.5°	1358.4	1044.6	121.6	58.5	51.4	46.6	44.1	42.7	42.1	42.7	42.9
60°	1616.4	1292.8	170.3	54.6	48.3	43.5	42.1	41.2	40.8	41.4	41.4
62.5°	1959.4	1623.1	263.6	51.4	45.0	40.6	40.2	39.8	39.4	40.0	40.0
65°	2329.7	1923.6	271.3	49.6	42.1	38.1	38.3	38.3	37.9	38.5	38.5
67.5°	2447.6	1897.6	151.6	47.3	38.5	35.6	36.4	36.4	36.2	36.9	36.7
68°	2422.6	1856.3	132.0	46.6	37.9	35.0	35.8	36.0	35.8	36.4	36.2
70°	2236.4	1629.8	86.8	43.1	35.2	32.9	34.2	34.4	34.2	35.0	34.8
72.5°	1846.1	1222.4	64.1	37.7	31.9	30.2	31.4	31.7	31.9	32.7	32.5
75°	1172.4	675.1	50.6	32.1	28.5	27.1	28.3	28.9	29.4	30.6	30.0
77.5°	321.1	204.9	41.0	27.3	24.6	23.9	24.8	25.6	26.0	27.5	26.4
80°	112.5	90.6	34.2	23.1	20.4	20.2	21.0	21.9	22.3	23.5	22.3
82.5°	68.3	59.1	27.3	18.1	16.0	15.8	16.9	17.7	18.1	18.1	17.3
85°	35.6	31.2	20.0	12.7	11.0	10.4	12.3	13.3	13.5	13.3	12.7
87.5°	20.0	17.7	10.6	6.0	5.0	5.2	6.5	7.9	8.5	8.3	7.9
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)