

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: P198538

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198538
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-SL2-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 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: 3458 lumens
Efficiency: N/A
Efficacy: 101.7 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

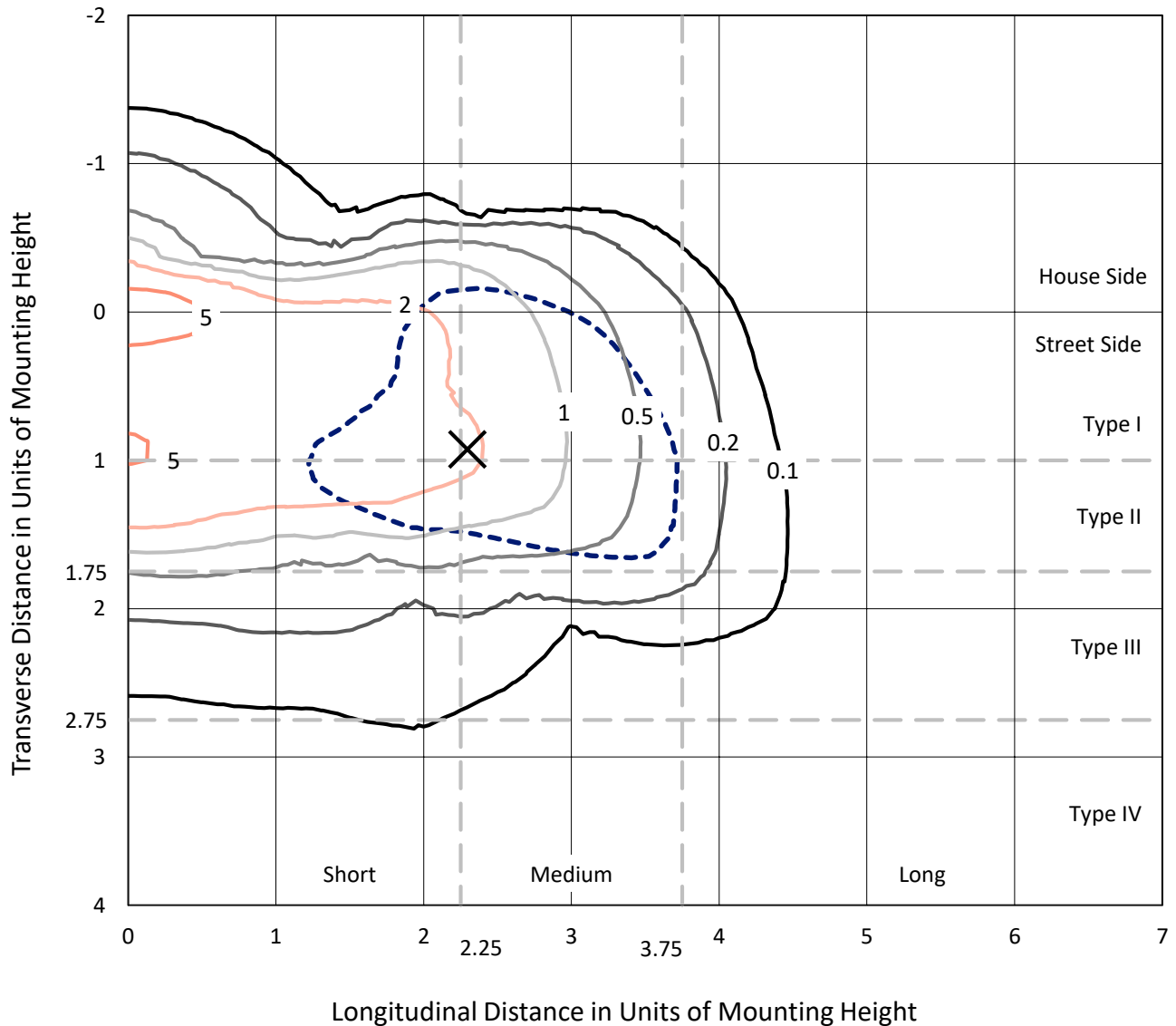
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

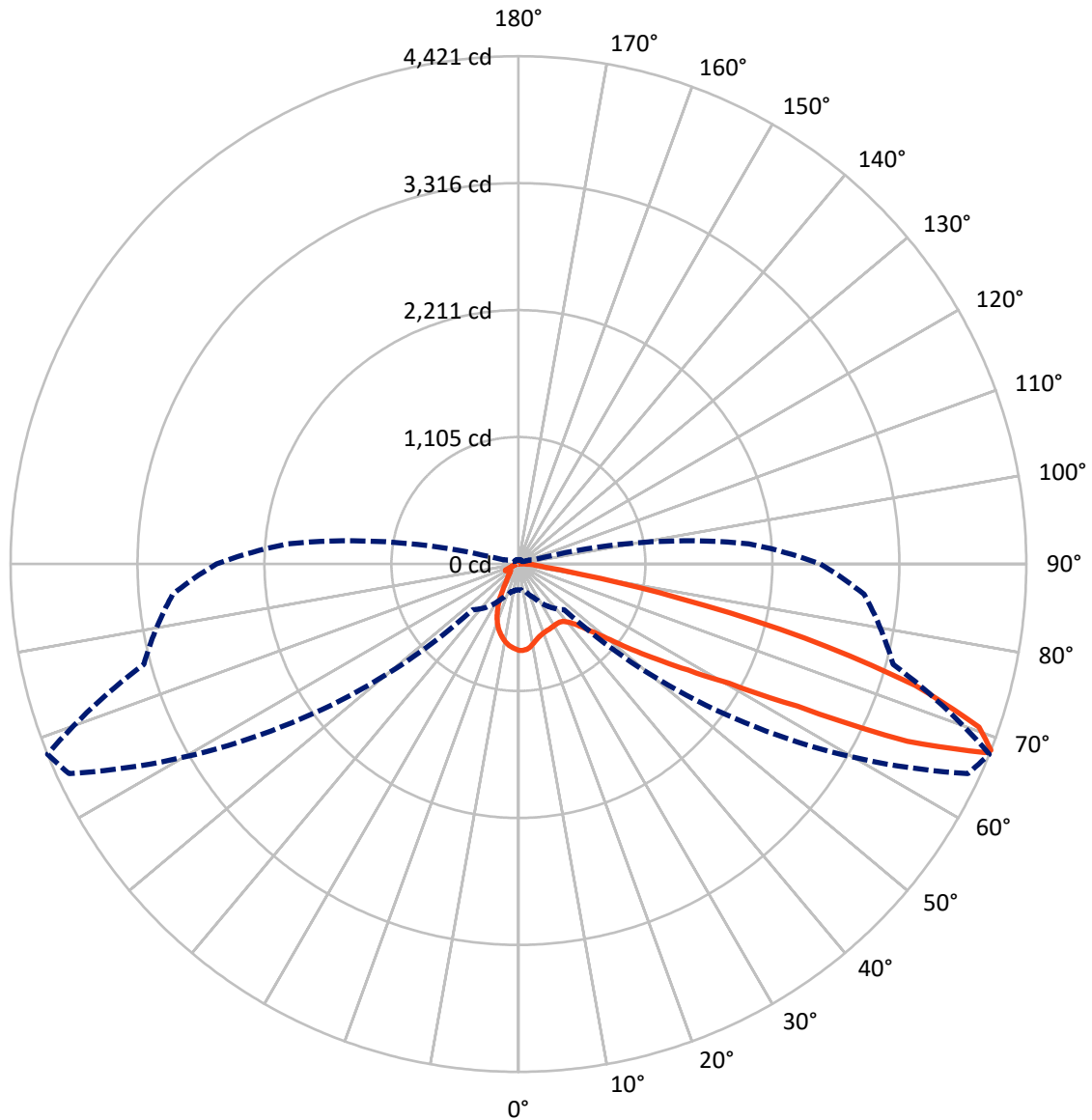
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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	565.7	0.0	565.7
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	2892.3	0.0	2892.3
	% Fixture	83.6	0.0	83.6
Total	Lumens	3458.0	0.0	3458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.9
10°-20°	149.5	4.3
20°-30°	202.2	5.8
30°-40°	285.1	8.2
40°-50°	468.9	13.6
50°-60°	726.8	21.0
60°-70°	942.4	27.3
70°-80°	540.8	15.6
80°-90°	77.8	2.3
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°	3458.0	100.0
0°-180°	3458.0	100.0

Coefficient of Utilization



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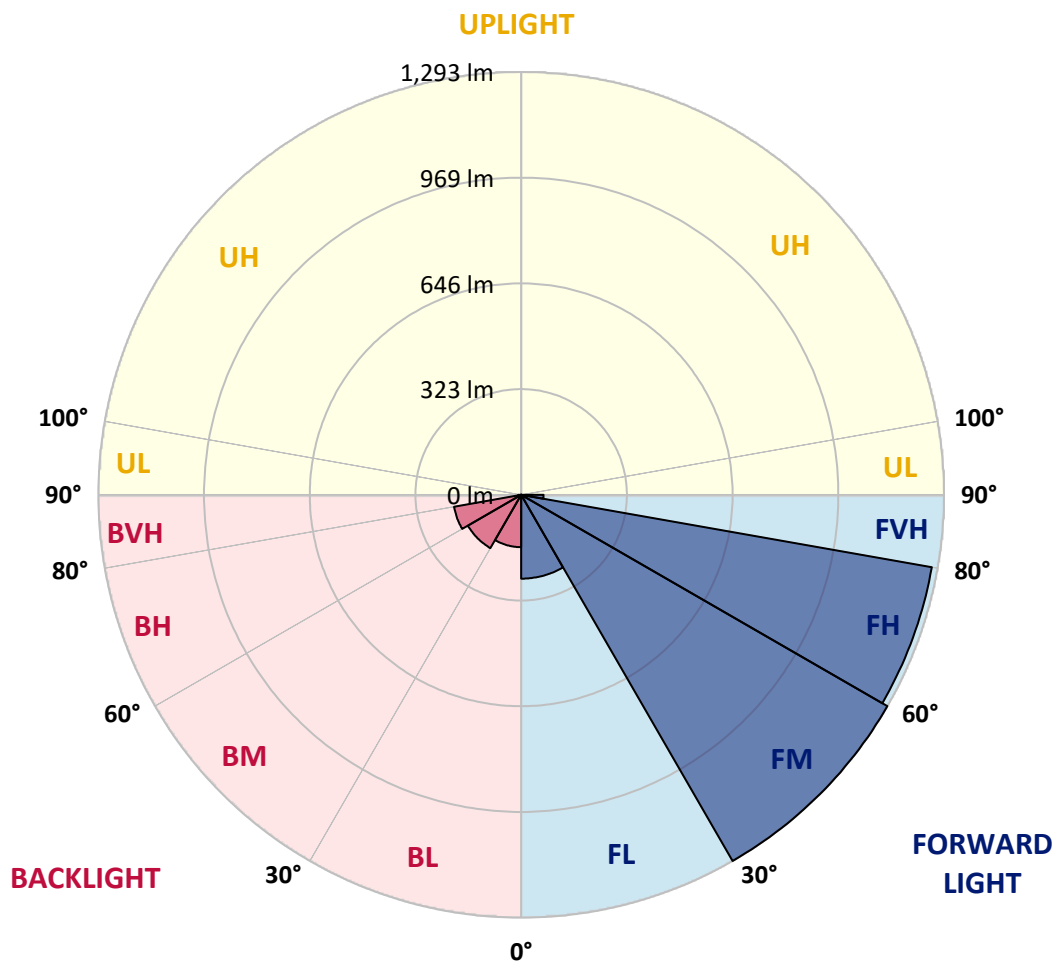
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.3	7.4			
FM	(30°-60°)	1292.7	37.4			
FH	(60°-80°)	1274.8	36.9			G1/1800
FVH	(80°-90°)	68.5	2.0			G1/100
BL	(0°-30°)	159.9	4.6	B1/500		
BM	(30°-60°)	188.2	5.4	B0/220		
BH	(60°-80°)	208.4	6.0	B1/500		G1/500
BVH	(80°-90°)	9.3	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°	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4
2.5°	732.3	738.2	738.2	742.5	746.3	749.5	752.2	752.2	752.2	750.4	748.8
5°	655.3	663.2	664.3	675.2	689.4	706.8	726.2	743.4	746.8	753.1	755.6
7.5°	601.8	604.2	608.5	616.0	630.5	651.9	682.4	720.8	730.1	749.9	760.3
10°	563.8	565.8	569.5	576.9	590.0	609.4	639.5	689.4	704.8	740.0	760.6
12.5°	536.0	537.6	541.0	547.8	561.1	578.5	609.2	661.2	680.1	730.1	763.7
15°	514.3	517.1	519.8	526.3	539.9	556.6	587.8	640.6	661.2	722.2	769.6
17.5°	505.8	507.1	507.6	511.0	523.2	540.1	571.3	626.2	647.4	715.8	774.1
20°	511.2	511.4	506.9	504.6	511.6	527.2	557.5	615.3	637.0	710.2	775.9
22.5°	534.9	534.9	523.2	513.2	508.5	518.2	548.2	607.9	631.4	705.9	775.9
25°	580.1	578.0	559.7	540.1	519.1	515.0	542.4	603.1	627.1	703.6	773.0
27.5°	639.5	637.7	614.4	585.3	547.3	521.8	540.3	599.3	622.8	700.3	766.7
30°	711.8	710.2	683.8	645.6	589.6	543.3	545.1	596.6	619.4	694.6	756.0
32.5°	783.8	782.9	761.9	722.8	647.8	579.6	557.5	596.1	617.6	687.8	743.2
35°	856.3	856.3	843.5	810.5	726.2	634.3	583.5	604.5	621.0	684.2	732.1
37.5°	963.4	959.1	935.2	901.1	824.9	705.2	625.5	622.1	634.1	690.3	728.5
40°	1129.2	1116.8	1056.9	999.6	932.7	796.0	686.9	656.2	663.4	711.1	737.1
42.5°	1302.7	1283.0	1203.8	1112.0	1044.1	908.1	767.6	711.5	711.3	751.3	764.4
45°	1451.6	1441.4	1355.5	1239.2	1171.2	1034.1	869.4	793.8	785.6	813.6	817.0
47.5°	1538.1	1531.3	1479.6	1373.8	1322.1	1183.0	998.6	907.8	892.5	909.2	904.0
50°	1514.1	1520.7	1505.8	1451.8	1484.3	1392.1	1163.3	1064.2	1035.0	1051.7	1039.1
52.5°	1388.1	1405.7	1419.0	1429.4	1577.6	1672.0	1370.2	1259.3	1235.2	1232.2	1220.0
55°	1161.1	1189.1	1231.1	1307.4	1552.5	1896.8	1731.7	1495.4	1460.1	1441.6	1446.4
57.5°	790.2	832.6	923.2	1068.4	1422.2	1992.6	2266.1	1800.3	1740.7	1674.7	1690.1
60°	435.3	470.7	578.5	724.9	1124.7	1978.3	2739.8	2295.9	2108.2	1933.4	1965.0
62.5°	281.7	289.4	369.6	495.1	690.3	1746.6	3002.9	3124.2	2726.5	2274.5	2319.0
65°	226.3	231.8	271.1	399.4	480.9	1123.6	3014.7	3983.5	3721.3	2738.0	2739.3
67.5°	221.1	223.6	246.4	335.9	451.1	611.7	2605.8	4322.3	4383.1	3285.1	3020.6
68°	224.3	227.2	250.3	325.5	450.9	563.8	2408.4	4317.2	4421.3	3376.6	3020.6
70°	197.9	201.5	255.3	336.8	431.7	484.8	1649.2	4087.9	4255.5	3586.9	2866.1
72.5°	103.5	100.5	126.3	265.9	485.9	505.1	871.2	3415.2	3610.8	3321.9	2476.2
75°	80.6	73.4	70.7	105.0	427.4	523.8	506.0	2427.4	2575.1	2394.6	1655.1
77.5°	75.9	67.1	61.9	62.1	188.2	545.1	409.3	1428.5	1428.5	1142.3	528.1
80°	61.0	52.9	49.5	56.5	90.8	502.4	427.2	651.0	555.2	295.2	145.5
82.5°	40.2	35.9	36.1	45.9	68.9	335.4	494.7	321.4	241.5	130.8	85.6
85°	25.5	21.9	24.4	32.1	51.5	149.5	489.7	223.4	159.9	73.4	42.7
87.5°	12.9	9.9	12.2	16.7	31.4	42.9	403.2	199.5	118.6	30.5	23.3
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°	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4
2.5°	748.8	743.8	741.4	737.3	732.3	727.4	724.0	722.4	721.5	721.9	721.7
5°	754.2	747.7	737.1	721.9	706.3	689.9	677.2	667.5	661.4	659.6	659.1
7.5°	758.3	748.8	728.9	701.4	674.7	645.8	621.2	601.5	588.2	582.1	581.9
10°	757.6	745.4	714.0	673.4	634.3	591.8	553.2	520.2	496.3	484.8	484.3
12.5°	758.3	741.6	695.7	640.6	584.6	523.8	466.5	415.2	379.5	362.5	361.9
15°	761.0	737.5	677.0	604.0	526.5	440.7	358.7	294.3	261.8	250.7	250.7
17.5°	760.8	730.7	655.3	561.6	457.6	342.7	244.9	205.1	201.9	212.1	213.7
20°	756.3	719.9	627.3	511.2	376.8	237.2	166.0	160.4	185.7	213.7	216.9
22.5°	749.3	705.9	595.0	452.7	282.6	154.5	128.1	136.7	171.0	205.8	210.8
25°	739.6	689.0	557.9	384.7	187.9	111.1	106.8	117.5	141.6	164.9	168.5
27.5°	725.3	667.5	517.5	311.0	119.9	91.5	93.1	100.5	110.9	120.8	122.9
30°	707.5	642.4	473.5	229.5	91.0	81.8	84.5	89.0	93.5	99.8	101.2
32.5°	689.4	616.9	427.6	157.7	79.5	76.6	79.3	81.8	85.6	89.9	90.8
35°	673.1	593.2	380.4	110.0	74.5	73.2	74.5	76.1	80.0	84.3	84.7
37.5°	661.4	573.8	331.2	87.0	71.6	70.3	70.9	71.6	76.1	82.4	83.1
40°	659.8	560.9	281.2	78.2	69.3	67.5	67.1	67.5	73.4	80.6	81.3
42.5°	675.2	561.6	232.4	74.5	67.5	65.5	63.7	64.6	69.8	75.4	75.9
45°	711.5	577.4	190.2	73.0	66.0	64.4	61.7	62.1	64.6	67.5	68.0
47.5°	775.7	611.9	157.9	72.1	64.6	63.2	59.9	58.5	58.7	60.3	60.3
50°	878.2	669.8	138.2	71.2	63.5	61.0	57.1	54.4	53.8	54.7	54.9
52.5°	1031.2	768.9	128.8	69.3	61.4	58.1	53.8	51.1	49.9	50.8	50.8
55°	1237.9	927.3	124.2	66.9	59.0	54.4	50.6	48.3	47.4	48.1	48.1
57.5°	1473.5	1133.0	131.9	63.5	55.8	50.6	47.9	46.3	45.6	46.3	46.5
60°	1753.3	1402.3	184.8	59.2	52.4	47.2	45.6	44.7	44.3	45.0	45.0
62.5°	2125.4	1760.6	286.0	55.8	48.8	44.0	43.6	43.1	42.7	43.4	43.4
65°	2527.0	2086.5	294.3	53.8	45.6	41.3	41.6	41.6	41.1	41.8	41.8
67.5°	2654.9	2058.3	164.4	51.3	41.8	38.6	39.5	39.5	39.3	40.0	39.8
68°	2627.7	2013.6	143.2	50.6	41.1	37.9	38.9	39.1	38.9	39.5	39.3
70°	2425.8	1767.8	94.2	46.8	38.2	35.7	37.0	37.3	37.0	37.9	37.7
72.5°	2002.5	1326.0	69.6	40.9	34.6	32.8	34.1	34.3	34.6	35.5	35.2
75°	1271.7	732.3	54.9	34.8	30.9	29.4	30.7	31.4	31.9	33.2	32.5
77.5°	348.3	222.3	44.5	29.6	26.7	26.0	26.9	27.8	28.2	29.8	28.7
80°	122.0	98.3	37.0	25.1	22.1	21.9	22.8	23.7	24.2	25.5	24.2
82.5°	74.1	64.2	29.6	19.7	17.4	17.2	18.3	19.2	19.7	19.7	18.7
85°	38.6	33.9	21.7	13.8	12.0	11.3	13.3	14.5	14.7	14.5	13.8
87.5°	21.7	19.2	11.5	6.6	5.4	5.6	7.0	8.6	9.3	9.0	8.6
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)