

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: P199180

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199180
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-SL2-8030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3909 lumens
Efficiency: N/A
Efficacy: 88.8 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

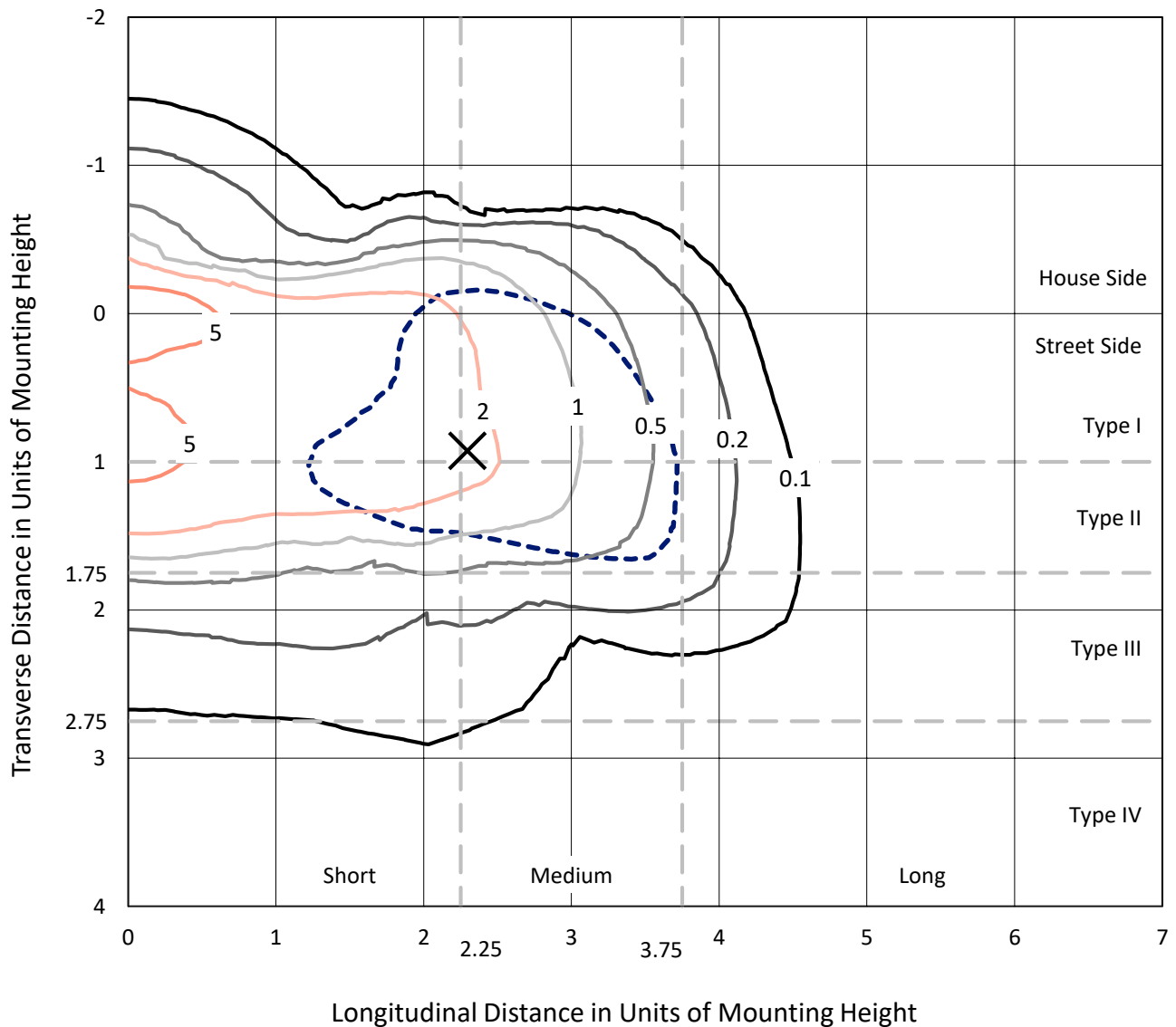
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

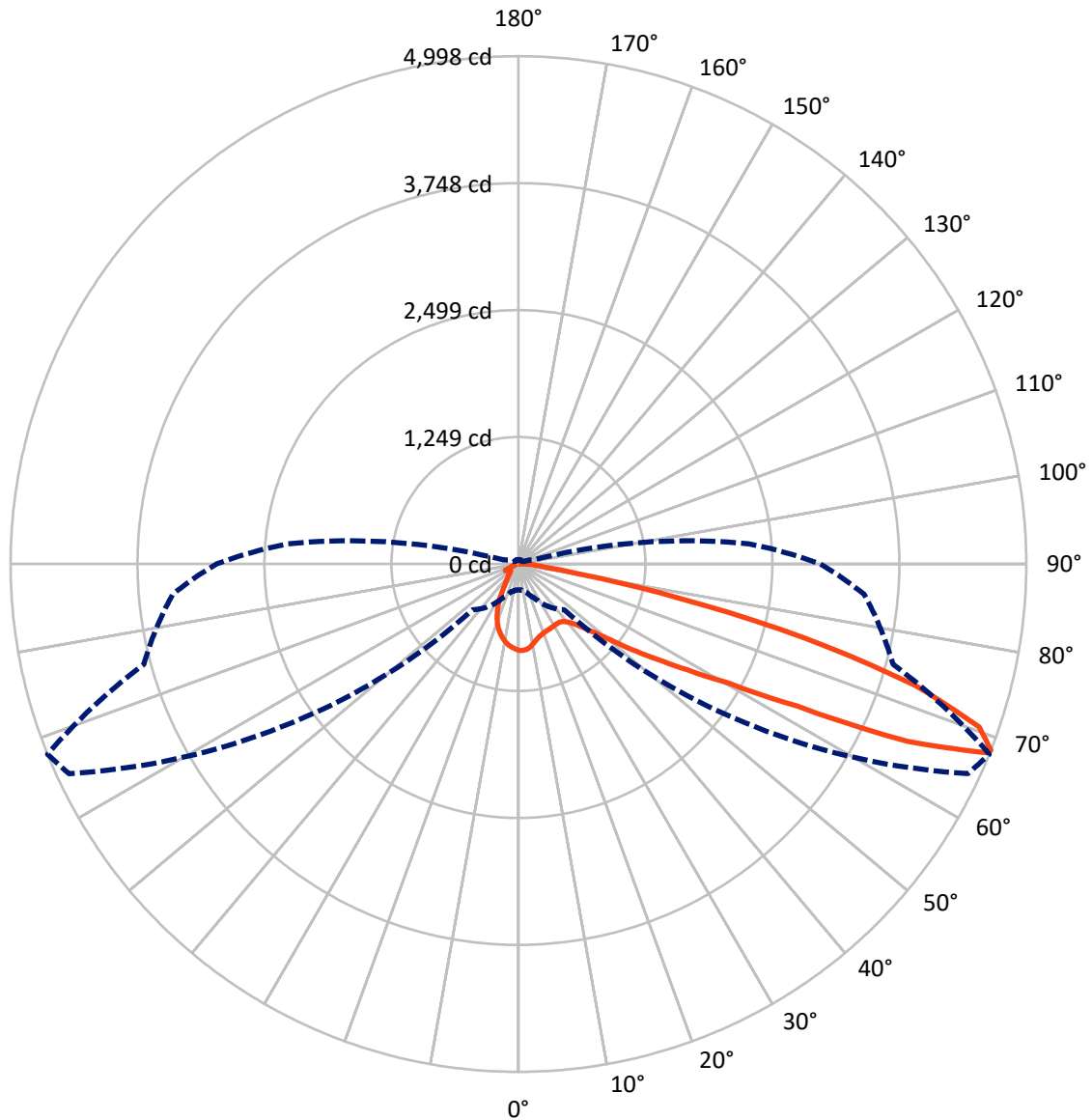
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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	639.5	0.0	639.5
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	3269.5	0.0	3269.5
	% Fixture	83.6	0.0	83.6
Total	Lumens	3909.0	0.0	3909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.9
10°-20°	169.0	4.3
20°-30°	228.6	5.8
30°-40°	322.3	8.2
40°-50°	530.0	13.6
50°-60°	821.6	21.0
60°-70°	1065.3	27.3
70°-80°	611.3	15.6
80°-90°	88.0	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°	3909.0	100.0
0°-180°	3909.0	100.0



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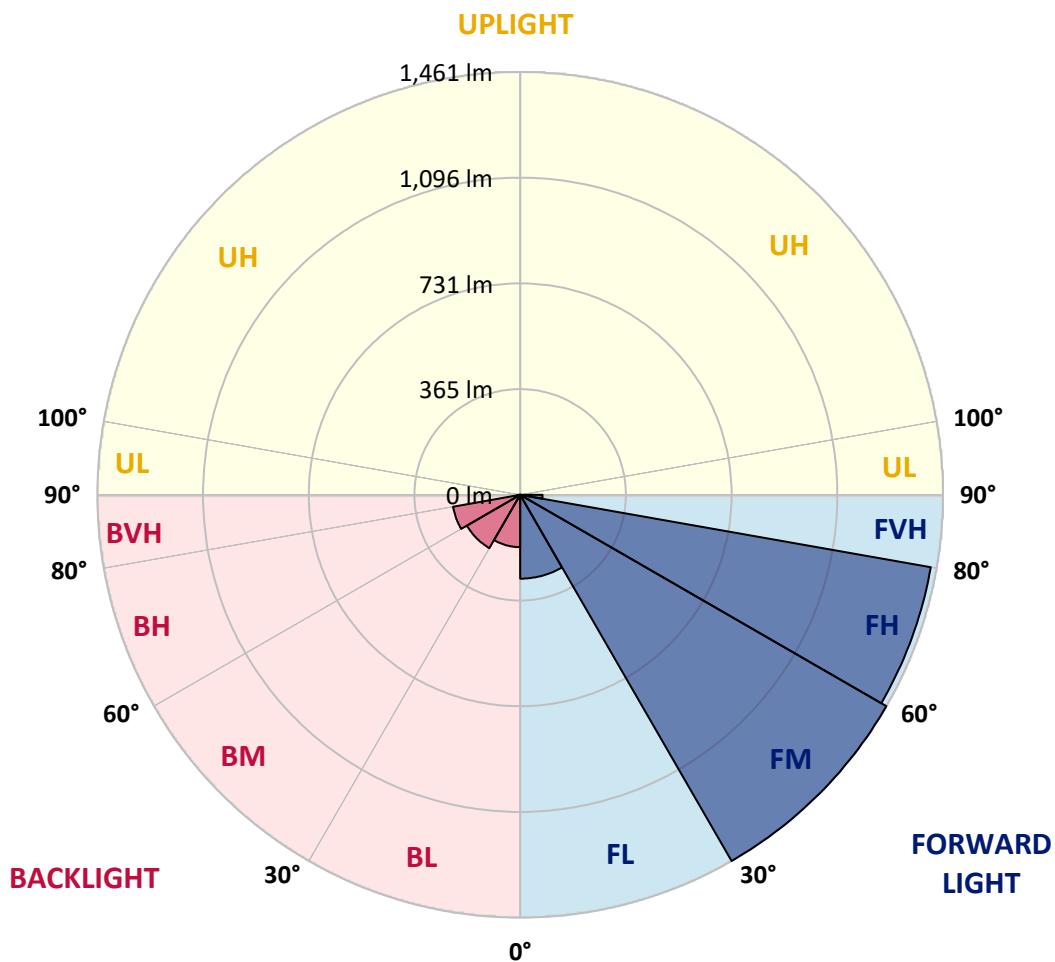
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.7	7.4			
FM	(30°-60°)	1461.2	37.4			
FH	(60°-80°)	1441.0	36.9			G1/1800
FVH	(80°-90°)	77.5	2.0			G1/100
BL	(0°-30°)	180.8	4.6	B1/500		
BM	(30°-60°)	212.7	5.4	B0/220		
BH	(60°-80°)	235.5	6.0	B1/500		G1/500
BVH	(80°-90°)	10.5	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6
2.5°	827.8	834.5	834.5	839.3	843.7	847.2	850.3	850.3	850.3	848.3	846.5
5°	740.8	749.7	751.0	763.2	779.3	799.0	820.9	840.3	844.2	851.3	854.1
7.5°	680.2	683.1	687.9	696.3	712.7	736.9	771.4	814.8	825.3	847.8	859.5
10°	637.3	639.6	643.7	652.2	667.0	688.9	722.9	779.3	796.7	836.5	859.8
12.5°	605.9	607.7	611.6	619.2	634.3	653.9	688.7	747.4	768.9	825.3	863.3
15°	581.4	584.5	587.6	595.0	610.3	629.2	664.4	724.2	747.4	816.3	870.0
17.5°	571.7	573.3	573.8	577.6	591.4	610.5	645.8	707.8	731.8	809.2	875.1
20°	577.9	578.1	573.0	570.4	578.4	596.0	630.2	695.6	720.1	802.8	877.1
22.5°	604.7	604.7	591.4	580.2	574.8	585.8	619.7	687.1	713.7	798.0	877.1
25°	655.7	653.4	632.8	610.5	586.8	582.2	613.1	681.8	708.8	795.4	873.8
27.5°	722.9	720.8	694.5	661.6	618.7	589.9	610.8	677.4	704.0	791.6	866.7
30°	804.6	802.8	772.9	729.8	666.5	614.1	616.2	674.4	700.2	785.2	854.6
32.5°	886.1	885.0	861.3	817.1	732.3	655.2	630.2	673.9	698.1	777.5	840.1
35°	968.0	968.0	953.5	916.2	820.9	717.0	659.6	683.3	702.0	773.4	827.6
37.5°	1089.1	1084.2	1057.1	1018.6	932.5	797.2	707.1	703.2	716.8	780.3	823.5
40°	1276.5	1262.4	1194.8	1129.9	1054.3	899.8	776.5	741.8	750.0	803.8	833.2
42.5°	1472.6	1450.4	1360.7	1257.1	1180.2	1026.5	867.7	804.3	804.1	849.3	864.1
45°	1640.9	1629.4	1532.3	1400.8	1324.0	1169.0	982.8	897.3	888.1	919.8	923.6
47.5°	1738.7	1731.0	1672.5	1553.0	1494.6	1337.3	1128.9	1026.2	1008.9	1027.8	1021.9
50°	1711.6	1719.0	1702.1	1641.1	1677.9	1573.7	1315.0	1202.9	1170.0	1188.9	1174.6
52.5°	1569.1	1589.0	1604.1	1615.8	1783.3	1890.1	1548.9	1423.6	1396.2	1392.9	1379.1
55°	1312.5	1344.2	1391.6	1478.0	1755.0	2144.2	1957.5	1690.4	1650.6	1629.6	1635.0
57.5°	893.2	941.2	1043.6	1207.8	1607.7	2252.4	2561.6	2035.1	1967.7	1893.1	1910.5
60°	492.1	532.1	653.9	819.4	1271.4	2236.3	3097.1	2595.4	2383.2	2185.5	2221.3
62.5°	318.4	327.1	417.7	559.7	780.3	1974.3	3394.6	3531.7	3082.0	2571.1	2621.4
65°	255.9	262.0	306.4	451.5	543.6	1270.1	3407.9	4503.1	4206.6	3095.1	3096.6
67.5°	250.0	252.8	278.6	379.7	509.9	691.5	2945.7	4886.1	4954.8	3713.5	3414.5
68°	253.6	256.9	282.9	368.0	509.7	637.3	2722.5	4880.2	4997.9	3816.9	3414.5
70°	223.7	227.8	288.5	380.7	488.0	548.0	1864.3	4621.0	4810.5	4054.7	3239.9
72.5°	116.9	113.6	142.7	300.5	549.3	571.0	984.9	3860.6	4081.7	3755.1	2799.1
75°	91.2	83.0	79.9	118.7	483.1	592.2	572.0	2744.0	2911.0	2706.9	1870.9
77.5°	85.8	75.8	70.0	70.2	212.7	616.2	462.7	1614.8	1614.8	1291.3	597.0
80°	68.9	59.8	55.9	63.8	102.6	567.9	482.9	735.9	627.6	333.7	164.4
82.5°	45.5	40.6	40.9	51.8	77.9	379.2	559.2	363.4	273.0	147.8	96.8
85°	28.9	24.8	27.6	36.3	58.2	169.0	553.6	252.5	180.8	83.0	48.3
87.5°	14.6	11.2	13.8	18.9	35.5	48.5	455.8	225.5	134.1	34.5	26.3
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°	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6
2.5°	846.5	840.9	838.1	833.5	827.8	822.2	818.4	816.6	815.6	816.1	815.8
5°	852.6	845.2	833.2	816.1	798.5	779.8	765.5	754.6	747.7	745.6	745.1
7.5°	857.2	846.5	824.0	792.9	762.7	730.0	702.2	680.0	664.9	658.0	657.8
10°	856.4	842.6	807.2	761.2	717.0	669.0	625.3	588.1	561.0	548.0	547.5
12.5°	857.2	838.3	786.5	724.2	660.8	592.2	527.3	469.3	429.0	409.8	409.1
15°	860.3	833.7	765.3	682.8	595.2	498.2	405.5	332.7	295.9	283.4	283.4
17.5°	860.0	826.1	740.8	634.8	517.3	387.4	276.8	231.9	228.3	239.8	241.6
20°	854.9	813.8	709.1	577.9	425.9	268.1	187.7	181.3	209.9	241.6	245.1
22.5°	847.0	798.0	672.6	511.7	319.4	174.7	144.8	154.5	193.3	232.6	238.2
25°	836.0	778.8	630.7	434.9	212.4	125.6	120.8	132.8	160.1	186.4	190.5
27.5°	819.9	754.6	585.0	351.6	135.6	103.4	105.2	113.6	125.4	136.6	138.9
30°	799.7	726.2	535.2	259.4	102.9	92.4	95.5	100.6	105.7	112.9	114.4
32.5°	779.3	697.4	483.4	178.2	89.9	86.6	89.6	92.4	96.8	101.6	102.6
35°	760.9	670.5	430.0	124.4	84.3	82.7	84.3	86.1	90.4	95.2	95.8
37.5°	747.7	648.6	374.3	98.3	80.9	79.4	80.2	80.9	86.1	93.2	94.0
40°	745.9	634.0	317.9	88.4	78.4	76.3	75.8	76.3	83.0	91.2	91.9
42.5°	763.2	634.8	262.8	84.3	76.3	74.1	72.0	73.0	78.9	85.3	85.8
45°	804.3	652.7	215.0	82.5	74.6	72.8	69.7	70.2	73.0	76.3	76.9
47.5°	876.9	691.7	178.5	81.5	73.0	71.5	67.7	66.1	66.4	68.2	68.2
50°	992.8	757.1	156.3	80.4	71.8	68.9	64.6	61.5	60.8	61.8	62.0
52.5°	1165.7	869.2	145.5	78.4	69.5	65.6	60.8	57.7	56.4	57.5	57.5
55°	1399.3	1048.2	140.4	75.6	66.6	61.5	57.2	54.6	53.6	54.4	54.4
57.5°	1665.6	1280.8	149.1	71.8	63.1	57.2	54.1	52.3	51.6	52.3	52.6
60°	1982.0	1585.2	208.9	66.9	59.2	53.4	51.6	50.6	50.0	50.8	50.8
62.5°	2402.6	1990.2	323.3	63.1	55.2	49.8	49.3	48.8	48.3	49.0	49.0
65°	2856.6	2358.6	332.7	60.8	51.6	46.7	47.0	47.0	46.5	47.2	47.2
67.5°	3001.1	2326.7	185.9	58.0	47.2	43.7	44.7	44.7	44.4	45.2	44.9
68°	2970.5	2276.2	161.9	57.2	46.5	42.9	43.9	44.2	43.9	44.7	44.4
70°	2742.2	1998.4	106.5	52.9	43.2	40.3	41.9	42.1	41.9	42.9	42.6
72.5°	2263.7	1498.9	78.6	46.2	39.1	37.0	38.6	38.8	39.1	40.1	39.8
75°	1437.6	827.8	62.0	39.3	35.0	33.2	34.7	35.5	36.0	37.5	36.8
77.5°	393.7	251.3	50.3	33.5	30.1	29.4	30.4	31.4	31.9	33.7	32.4
80°	137.9	111.1	41.9	28.3	25.0	24.8	25.8	26.8	27.3	28.9	27.3
82.5°	83.8	72.5	33.5	22.2	19.7	19.4	20.7	21.7	22.2	22.2	21.2
85°	43.7	38.3	24.5	15.6	13.5	12.8	15.1	16.3	16.6	16.3	15.6
87.5°	24.5	21.7	13.0	7.4	6.1	6.4	7.9	9.7	10.5	10.2	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)