

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: P198866

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7050-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - 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

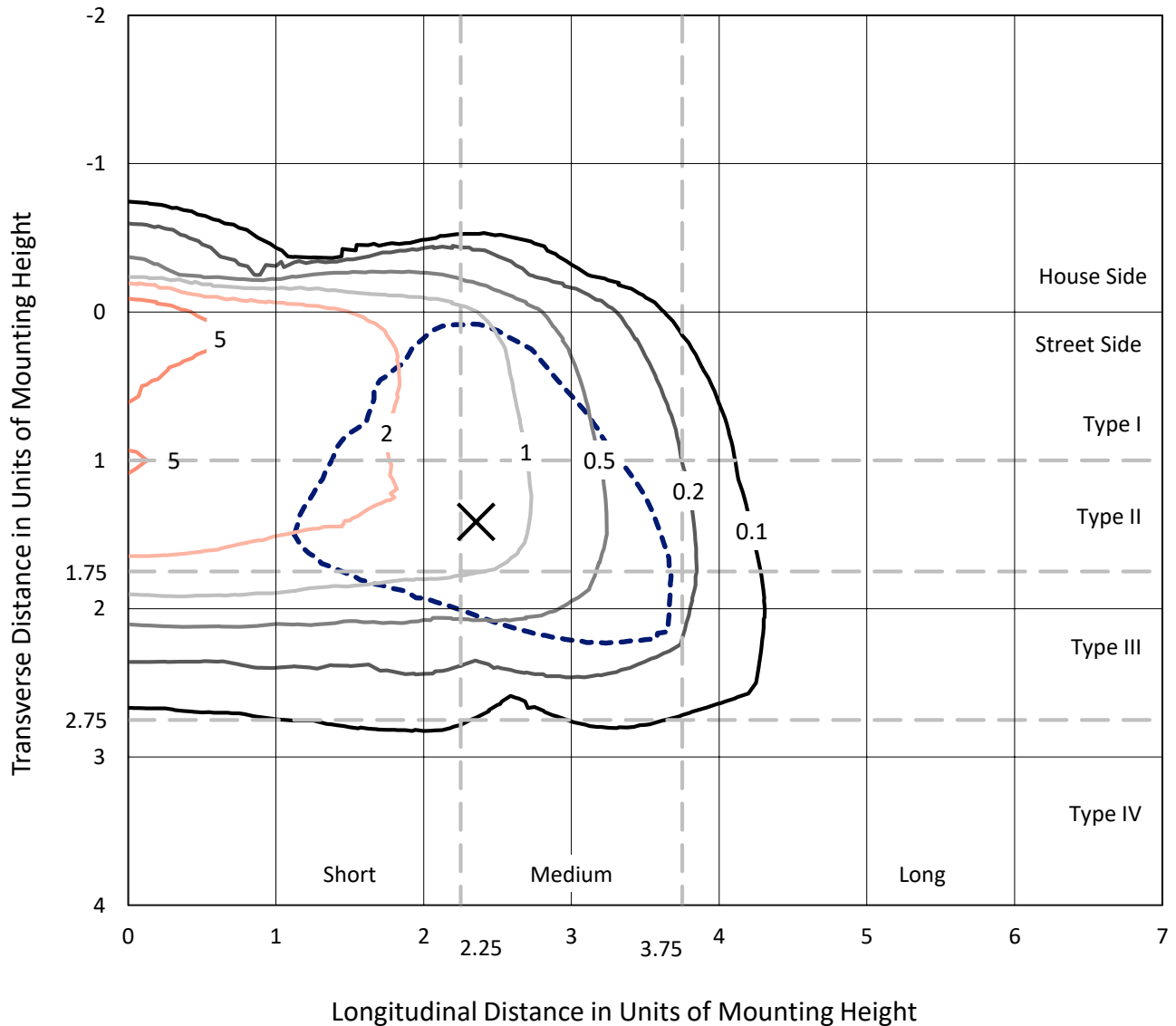


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

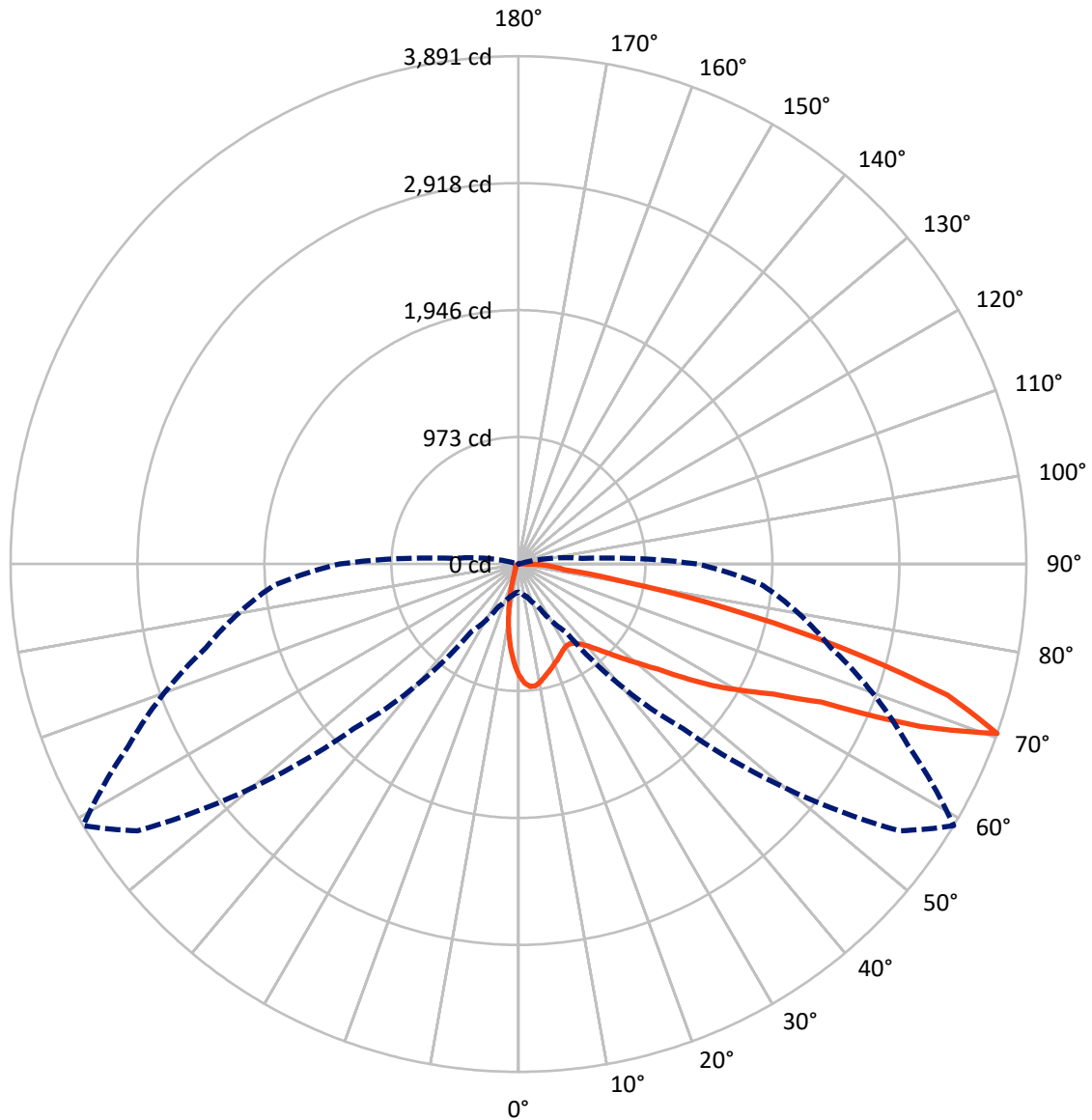


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.1	0.0	260.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3122.9	0.0	3122.9
	% Fixture	92.3	0.0	92.3
Total	Lumens	3383.0	0.0	3383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	2.1
10°-20°	147.5	4.4
20°-30°	199.7	5.9
30°-40°	288.2	8.5
40°-50°	478.7	14.1
50°-60°	732.2	21.6
60°-70°	910.7	26.9
70°-80°	503.4	14.9
80°-90°	52.2	1.5
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°	3383.0	100.0
0°-180°	3383.0	100.0

Coefficient of Utilization



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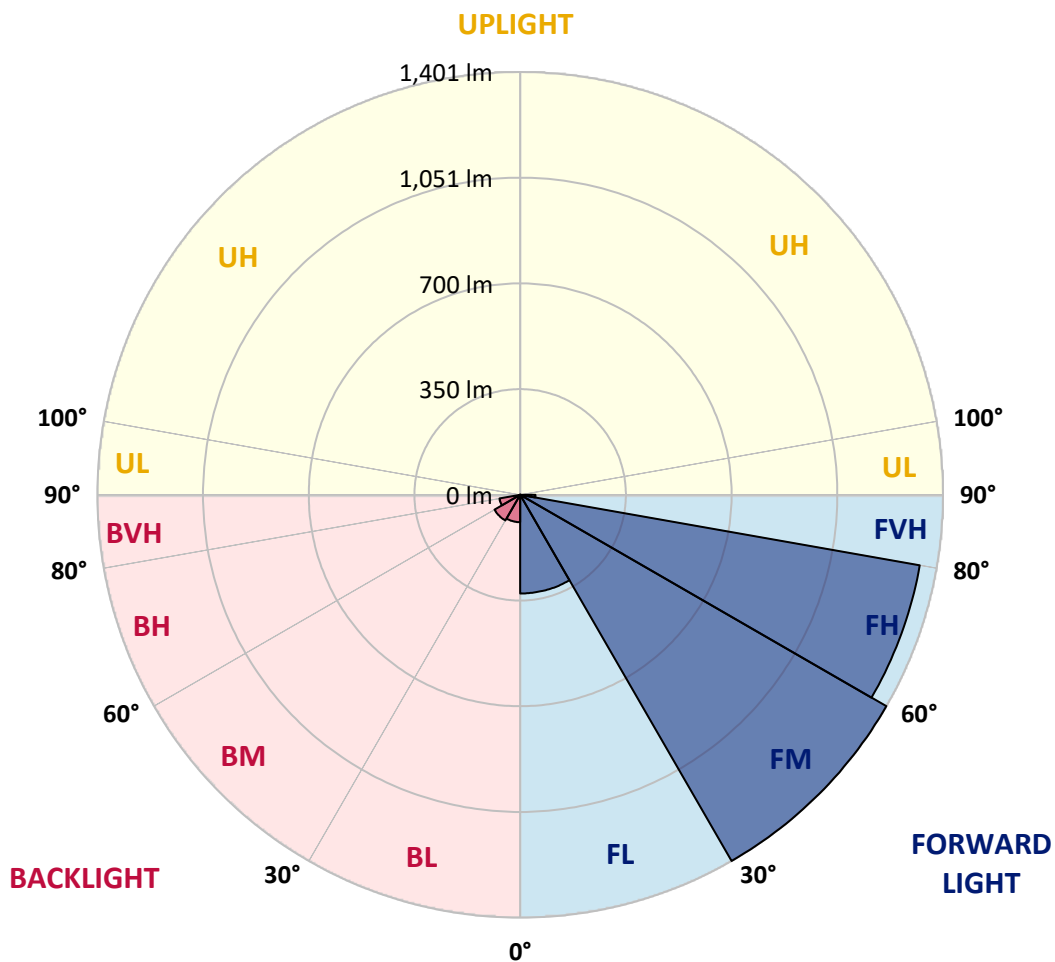
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.0	9.7			
FM	(30°-60°)	1400.9	41.4			
FH	(60°-80°)	1344.3	39.7			G1/1800
FVH	(80°-90°)	50.7	1.5			G1/100
BL	(0°-30°)	90.6	2.7	B0/110		
BM	(30°-60°)	98.2	2.9	B0/220		
BH	(60°-80°)	69.8	2.1	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	967.0	965.4	959.1	957.8	950.6	936.3	919.8	913.1	899.6	878.2	854.4
5°	983.0	983.8	984.3	981.5	980.5	968.7	950.4	942.5	924.3	889.1	845.7
7.5°	922.8	924.9	931.2	934.0	946.3	950.9	947.1	942.0	927.7	886.1	825.1
10°	859.3	863.1	870.0	874.6	889.6	901.9	917.5	918.7	915.7	875.9	801.8
12.5°	804.7	808.2	815.9	825.1	840.4	856.2	879.4	887.6	897.8	869.2	785.3
15°	757.7	758.7	766.1	777.6	797.8	819.5	847.0	859.0	878.9	866.7	772.5
17.5°	716.6	716.9	721.7	732.2	756.7	785.3	817.4	833.2	858.5	863.1	761.3
20°	689.6	689.3	689.6	695.2	716.9	750.8	789.9	806.4	838.9	858.8	749.8
22.5°	680.4	679.1	673.2	671.2	685.0	714.8	761.5	783.2	821.2	857.5	741.4
25°	691.6	690.8	678.3	666.6	667.9	686.5	732.7	759.2	807.5	862.1	739.3
27.5°	727.8	726.3	707.2	684.2	669.7	673.0	711.2	739.1	796.5	873.3	742.1
30°	775.3	775.6	755.1	727.3	693.1	674.2	699.8	726.1	789.1	890.1	748.3
32.5°	828.1	827.9	813.3	781.2	737.5	697.7	704.9	727.1	790.1	914.9	760.0
35°	882.7	879.9	875.1	846.8	795.7	738.8	728.1	744.4	800.8	947.6	779.9
37.5°	945.8	944.8	949.6	919.8	867.7	799.3	768.9	779.9	827.9	995.8	812.1
40°	1046.1	1040.5	1042.8	1002.2	948.8	880.7	826.1	828.9	871.0	1059.6	862.8
42.5°	1237.2	1214.5	1171.9	1095.8	1038.2	971.0	900.9	896.0	932.0	1136.9	929.7
45°	1465.6	1439.6	1332.2	1199.2	1127.5	1068.0	993.2	980.2	1007.0	1229.1	1016.0
47.5°	1656.3	1628.2	1485.8	1307.1	1218.3	1168.1	1095.6	1080.3	1096.9	1336.0	1119.6
50°	1721.3	1705.8	1580.7	1397.0	1310.0	1280.4	1224.0	1198.4	1202.5	1451.3	1240.5
52.5°	1691.5	1686.1	1602.4	1458.5	1394.7	1404.4	1364.6	1337.8	1333.2	1577.4	1374.3
55°	1628.4	1625.9	1585.1	1492.7	1469.5	1517.9	1561.8	1538.6	1495.2	1711.4	1484.8
57.5°	1538.4	1548.1	1577.4	1558.5	1561.3	1637.9	1745.1	1757.1	1692.2	1818.1	1566.7
60°	1297.7	1323.7	1458.2	1629.2	1760.1	1837.5	1941.3	1963.8	1859.2	1891.1	1661.4
62.5°	959.3	996.6	1188.2	1502.4	1869.6	2216.9	2202.4	2192.4	2018.4	1988.8	1833.6
65°	563.5	607.1	769.2	1173.9	1704.5	2460.9	2689.8	2552.0	2261.1	2191.9	2108.0
67.5°	280.7	281.0	354.2	619.6	1259.7	2290.7	3401.3	3321.7	2777.1	2491.3	2216.2
70°	215.9	221.8	262.1	360.1	637.0	1784.1	3564.4	3891.3	3295.7	2478.0	1880.3
72.5°	183.0	186.8	233.3	313.4	476.2	979.5	3085.7	3439.6	3144.9	2093.7	1386.0
75°	131.7	134.7	206.5	284.3	438.4	485.9	2116.6	2551.0	2359.6	1472.8	762.8
77.5°	32.7	32.4	72.0	230.7	392.2	404.8	1214.5	1635.8	1353.8	603.0	196.0
80°	14.5	14.0	16.3	48.5	364.9	382.0	534.1	826.1	519.3	97.7	60.0
82.5°	10.2	9.7	10.2	17.9	122.0	354.5	322.8	358.0	190.1	33.4	25.5
85°	3.3	3.1	5.6	15.1	34.2	204.4	314.9	267.5	141.4	14.3	17.1
87.5°	0.5	0.5	2.0	8.2	10.0	68.1	184.8	185.3	63.5	8.4	7.7
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°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	842.4	827.4	806.2	785.0	765.9	746.2	730.4	723.0	719.7	715.1	705.1
5°	823.0	795.7	749.3	703.6	661.0	620.1	585.2	565.3	543.8	542.8	532.4
7.5°	791.9	753.1	679.9	608.9	543.8	481.6	428.0	393.3	369.5	354.7	344.5
10°	757.2	707.4	610.4	510.7	422.1	338.9	270.0	225.1	197.8	184.0	176.1
12.5°	729.6	667.1	542.1	416.5	305.5	210.0	146.0	113.3	98.8	93.1	90.6
15°	705.9	630.1	478.0	332.3	203.9	120.7	84.5	73.8	71.5	71.5	71.2
17.5°	681.9	594.4	415.7	249.6	128.4	79.1	66.6	65.1	65.3	66.1	66.1
20°	659.2	560.4	355.8	177.9	84.2	63.3	60.5	60.0	60.7	61.8	61.5
22.5°	640.8	530.6	299.6	122.2	64.8	57.4	55.6	54.9	55.4	56.1	55.9
25°	627.8	505.0	248.1	85.2	56.4	52.3	50.3	49.3	48.7	49.3	49.0
27.5°	619.9	483.6	199.6	64.1	50.5	47.2	44.7	42.6	41.3	41.3	40.8
30°	614.8	463.4	156.4	53.1	45.7	42.1	38.5	35.7	33.7	33.2	32.9
32.5°	614.5	446.1	116.9	47.0	41.1	37.0	32.7	29.1	26.8	26.3	26.0
35°	620.9	432.1	86.0	42.4	37.0	32.2	27.3	23.5	21.4	21.4	21.2
37.5°	637.5	423.9	65.1	38.8	33.7	28.1	23.0	19.4	17.6	18.1	18.1
40°	668.4	422.4	53.1	36.0	30.9	24.5	18.6	15.8	15.1	15.8	15.8
42.5°	715.6	430.5	47.2	33.9	28.3	20.9	15.6	13.5	13.3	14.0	14.0
45°	777.1	446.6	43.9	32.2	25.5	17.4	13.0	11.7	11.5	12.5	12.5
47.5°	851.6	468.3	40.8	30.1	22.7	14.3	11.0	10.0	10.0	11.0	11.2
50°	939.9	497.6	37.8	28.1	20.4	12.0	9.2	8.4	8.7	9.7	10.0
52.5°	1041.5	533.6	35.0	26.3	17.9	9.7	7.7	7.1	7.4	8.4	8.7
55°	1129.0	565.0	31.6	24.5	14.5	7.9	6.4	6.1	6.4	7.7	7.7
57.5°	1205.3	595.1	28.6	21.7	11.5	6.4	5.1	5.1	5.6	6.9	7.1
60°	1306.6	642.6	26.0	18.4	8.7	4.8	4.1	4.3	5.1	6.1	6.4
62.5°	1486.0	723.2	22.7	15.3	6.4	3.8	3.3	3.6	4.6	5.9	6.1
65°	1710.6	799.5	18.9	12.8	4.8	2.8	2.6	3.3	4.6	5.9	6.1
67.5°	1687.7	695.4	14.8	10.2	3.6	2.3	2.0	3.1	4.3	5.9	6.1
70°	1368.7	487.4	11.0	6.9	2.8	2.0	2.0	3.1	4.3	5.6	5.9
72.5°	949.4	271.3	8.4	4.6	2.6	2.0	1.8	2.8	4.1	5.6	5.9
75°	451.7	83.2	6.6	3.3	2.3	1.8	1.5	2.8	4.1	5.6	5.9
77.5°	86.8	21.2	5.4	2.8	2.0	1.8	1.5	2.6	4.1	5.4	5.6
80°	29.3	9.4	4.3	2.6	2.0	1.8	1.5	2.6	3.8	5.1	5.4
82.5°	16.1	5.4	3.8	2.3	2.0	1.5	1.3	2.3	3.6	5.1	5.4
85°	12.5	3.8	3.1	2.3	2.0	1.5	1.3	2.3	3.6	4.8	5.1
87.5°	6.4	2.8	2.6	2.3	2.0	1.5	1.3	2.0	3.3	4.6	5.1
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)