

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: P199186

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199186
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-SL3-8030-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 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: 2761 lumens
Efficiency: N/A
Efficacy: 81.2 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

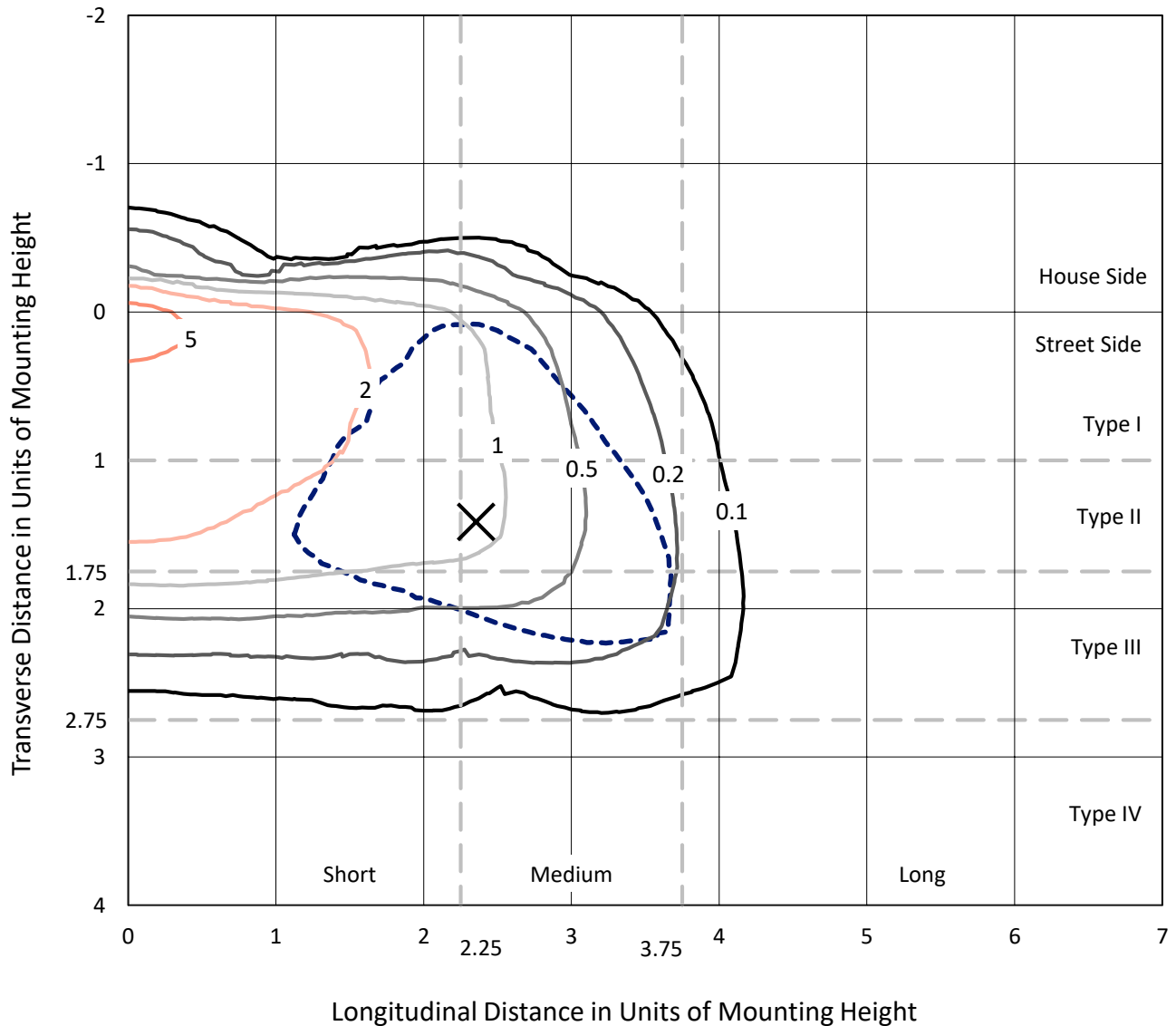


REPORT NUMBER: P199186

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

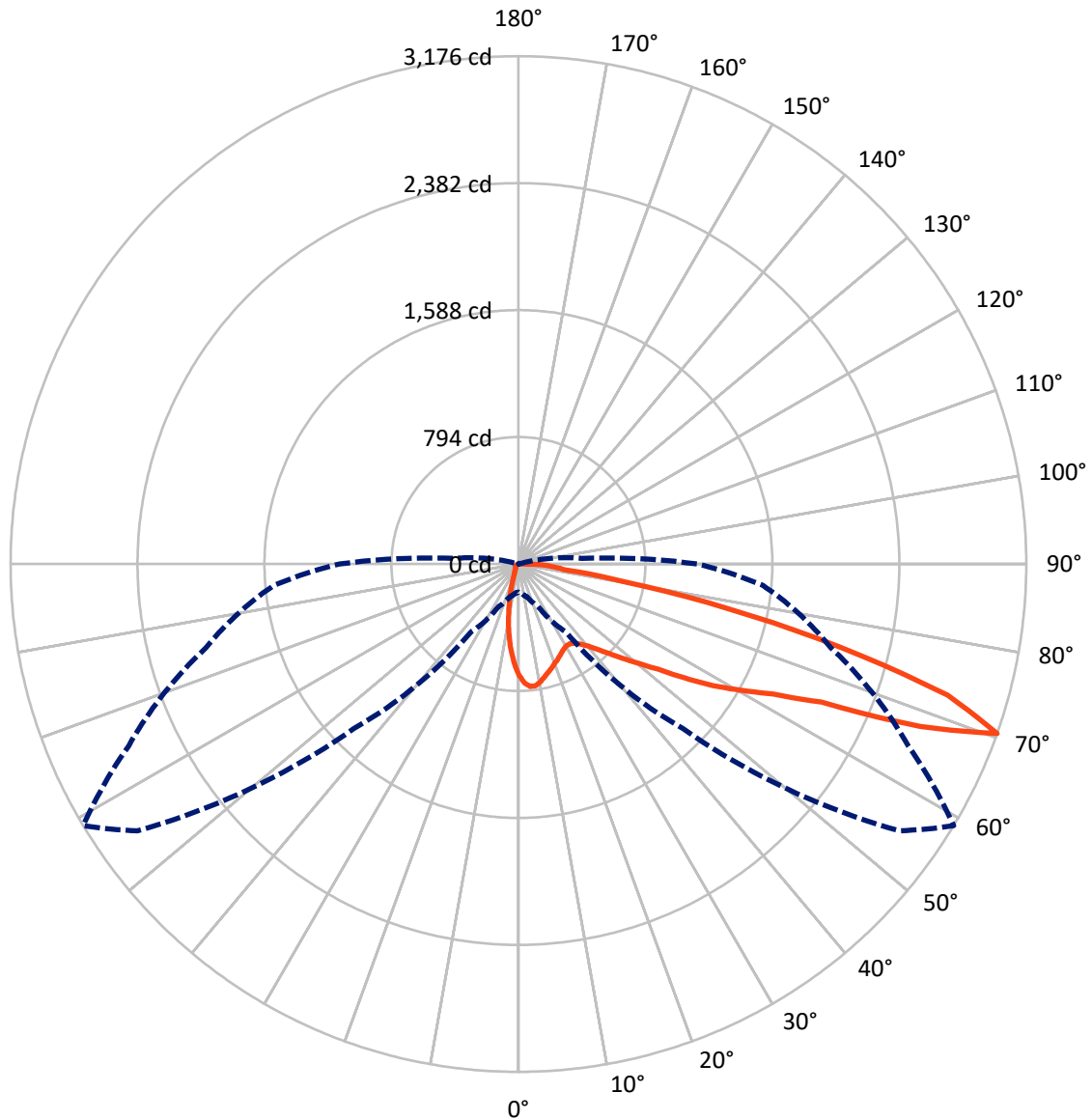


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199186

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P199186

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.2	0.0	212.2
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	2548.8	0.0	2548.8
	% Fixture	92.3	0.0	92.3
Total	Lumens	2761.0	0.0	2761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	2.1
10°-20°	120.4	4.4
20°-30°	163.0	5.9
30°-40°	235.2	8.5
40°-50°	390.7	14.1
50°-60°	597.6	21.6
60°-70°	743.2	26.9
70°-80°	410.9	14.9
80°-90°	42.6	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°	2761.0	100.0
0°-180°	2761.0	100.0



REPORT NUMBER: P199186

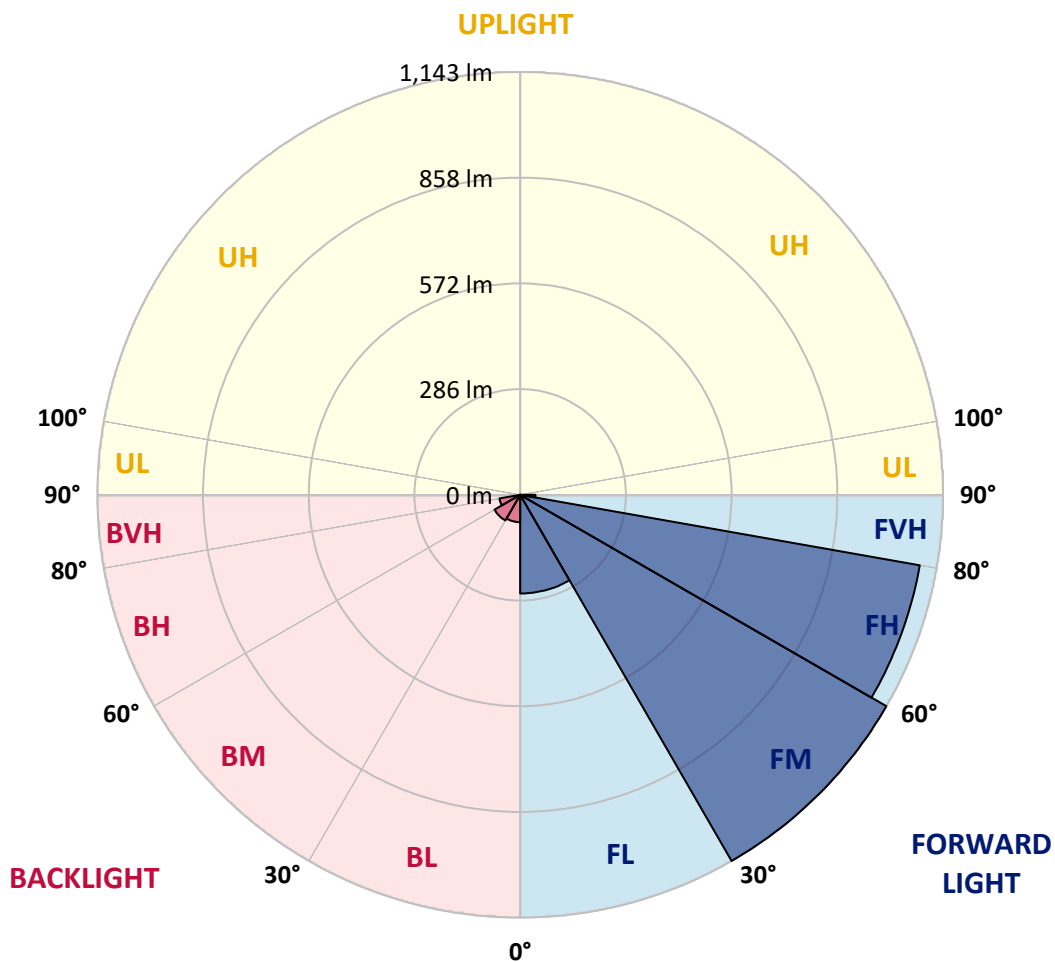
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.9	9.7			
FM (30°-60°)	1143.4	41.4			
FH (60°-80°)	1097.2	39.7			G1/1800
FVH (80°-90°)	41.4	1.5			G1/100
BL (0°-30°)	74.0	2.7	B0/110		
BM (30°-60°)	80.1	2.9	B0/220		
BH (60°-80°)	56.9	2.1	B0/110		G0/110
BVH (80°-90°)	1.2	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





REPORT NUMBER: P199186

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2
2.5°	789.2	787.9	782.7	781.7	775.8	764.2	750.6	745.2	734.2	716.7	697.3
5°	802.3	802.9	803.3	801.0	800.2	790.6	775.6	769.2	754.4	725.7	690.2
7.5°	753.1	754.8	760.0	762.3	772.3	776.1	772.9	768.8	757.1	723.2	673.4
10°	701.3	704.4	710.0	713.8	726.1	736.1	748.8	749.8	747.3	714.8	654.4
12.5°	656.7	659.6	665.9	673.4	685.9	698.8	717.7	724.4	732.7	709.4	640.9
15°	618.4	619.2	625.3	634.6	651.1	668.8	691.3	701.1	717.3	707.3	630.5
17.5°	584.9	585.1	589.0	597.6	617.6	640.9	667.1	680.0	700.7	704.4	621.3
20°	562.8	562.6	562.8	567.4	585.1	612.8	644.6	658.2	684.6	700.9	611.9
22.5°	555.3	554.2	549.4	547.8	559.0	583.4	621.5	639.2	670.2	699.8	605.1
25°	564.4	563.8	553.6	544.0	545.1	560.3	598.0	619.6	659.0	703.6	603.4
27.5°	594.0	592.8	577.1	558.4	546.5	549.2	580.5	603.2	650.0	712.7	605.7
30°	632.8	633.0	616.3	593.6	565.7	550.3	571.1	592.6	644.0	726.5	610.7
32.5°	675.9	675.7	663.8	637.5	601.9	569.4	575.3	593.4	644.8	746.7	620.3
35°	720.4	718.2	714.2	691.1	649.4	603.0	594.2	607.6	653.6	773.3	636.5
37.5°	771.9	771.1	775.0	750.6	708.2	652.3	627.6	636.5	675.7	812.7	662.7
40°	853.7	849.2	851.0	817.9	774.4	718.8	674.2	676.5	710.9	864.8	704.2
42.5°	1009.7	991.2	956.4	894.4	847.3	792.5	735.2	731.3	760.6	927.9	758.8
45°	1196.2	1174.9	1087.2	978.7	920.2	871.7	810.6	800.0	821.9	1003.1	829.2
47.5°	1351.7	1328.8	1212.6	1066.8	994.3	953.3	894.1	881.7	895.2	1090.4	913.7
50°	1404.9	1392.1	1290.1	1140.1	1069.1	1044.9	998.9	978.1	981.4	1184.5	1012.5
52.5°	1380.5	1376.1	1307.8	1190.3	1138.3	1146.2	1113.7	1091.8	1088.1	1287.4	1121.6
55°	1329.0	1327.0	1293.6	1218.2	1199.3	1238.9	1274.7	1255.7	1220.3	1396.7	1211.8
57.5°	1255.5	1263.4	1287.4	1272.0	1274.3	1336.7	1424.2	1434.0	1381.1	1483.8	1278.6
60°	1059.1	1080.4	1190.1	1329.7	1436.5	1499.6	1584.4	1602.7	1517.3	1543.4	1355.9
62.5°	782.9	813.3	969.8	1226.1	1525.9	1809.3	1797.5	1789.3	1647.3	1623.1	1496.5
65°	459.9	495.5	627.8	958.1	1391.1	2008.5	2195.3	2082.8	1845.4	1788.9	1720.4
67.5°	229.1	229.3	289.1	505.7	1028.1	1869.5	2776.0	2711.0	2266.5	2033.2	1808.7
70°	176.2	181.0	213.9	293.9	519.9	1456.1	2909.1	3175.9	2689.7	2022.4	1534.6
72.5°	149.3	152.5	190.4	255.8	388.7	799.4	2518.3	2807.2	2566.6	1708.7	1131.2
75°	107.5	110.0	168.5	232.0	357.8	396.6	1727.5	2082.0	1925.8	1202.0	622.6
77.5°	26.7	26.5	58.7	188.3	320.1	330.3	991.2	1335.1	1104.9	492.2	160.0
80°	11.9	11.5	13.3	39.6	297.8	311.8	435.9	674.2	423.9	79.8	48.9
82.5°	8.3	7.9	8.3	14.6	99.6	289.3	263.5	292.2	155.2	27.3	20.8
85°	2.7	2.5	4.6	12.3	27.9	166.8	257.0	218.3	115.4	11.7	14.0
87.5°	0.4	0.4	1.7	6.7	8.1	55.6	150.8	151.2	51.9	6.9	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199186

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2
2.5°	687.5	675.2	658.0	640.7	625.1	609.0	596.1	590.1	587.4	583.6	575.5
5°	671.7	649.4	611.5	574.2	539.4	506.1	477.6	461.3	443.8	443.0	434.5
7.5°	646.3	614.6	554.9	497.0	443.8	393.0	349.3	321.0	301.6	289.5	281.2
10°	618.0	577.4	498.2	416.8	344.5	276.6	220.4	183.7	161.4	150.2	143.7
12.5°	595.5	544.4	442.4	339.9	249.3	171.4	119.1	92.5	80.6	76.0	73.9
15°	576.1	514.2	390.1	271.2	166.4	98.5	68.9	60.2	58.3	58.3	58.1
17.5°	556.5	485.1	339.3	203.7	104.8	64.6	54.4	53.1	53.3	53.9	53.9
20°	538.0	457.4	290.3	145.2	68.7	51.7	49.4	48.9	49.6	50.4	50.2
22.5°	523.0	433.0	244.5	99.8	52.9	46.9	45.4	44.8	45.2	45.8	45.6
25°	512.4	412.2	202.4	69.6	46.0	42.7	41.0	40.2	39.8	40.2	40.0
27.5°	505.9	394.7	162.9	52.3	41.2	38.5	36.4	34.8	33.7	33.7	33.3
30°	501.7	378.2	127.7	43.3	37.3	34.4	31.5	29.2	27.5	27.1	26.9
32.5°	501.5	364.1	95.4	38.3	33.5	30.2	26.7	23.7	21.9	21.5	21.2
35°	506.7	352.6	70.2	34.6	30.2	26.2	22.3	19.2	17.5	17.5	17.3
37.5°	520.3	346.0	53.1	31.7	27.5	22.9	18.7	15.8	14.4	14.8	14.8
40°	545.5	344.7	43.3	29.4	25.2	20.0	15.2	12.9	12.3	12.9	12.9
42.5°	584.0	351.4	38.5	27.7	23.1	17.1	12.7	11.0	10.8	11.5	11.5
45°	634.2	364.5	35.8	26.2	20.8	14.2	10.6	9.6	9.4	10.2	10.2
47.5°	695.0	382.2	33.3	24.6	18.5	11.7	9.0	8.1	8.1	9.0	9.2
50°	767.1	406.1	30.8	22.9	16.7	9.8	7.5	6.9	7.1	7.9	8.1
52.5°	850.0	435.5	28.5	21.5	14.6	7.9	6.2	5.8	6.0	6.9	7.1
55°	921.4	461.1	25.8	20.0	11.9	6.5	5.2	5.0	5.2	6.2	6.2
57.5°	983.7	485.7	23.3	17.7	9.4	5.2	4.2	4.2	4.6	5.6	5.8
60°	1066.4	524.5	21.2	15.0	7.1	4.0	3.3	3.5	4.2	5.0	5.2
62.5°	1212.8	590.3	18.5	12.5	5.2	3.1	2.7	2.9	3.7	4.8	5.0
65°	1396.1	652.5	15.4	10.4	4.0	2.3	2.1	2.7	3.7	4.8	5.0
67.5°	1377.4	567.6	12.1	8.3	2.9	1.9	1.7	2.5	3.5	4.8	5.0
70°	1117.0	397.8	9.0	5.6	2.3	1.7	1.7	2.5	3.5	4.6	4.8
72.5°	774.8	221.4	6.9	3.7	2.1	1.7	1.5	2.3	3.3	4.6	4.8
75°	368.7	67.9	5.4	2.7	1.9	1.5	1.2	2.3	3.3	4.6	4.8
77.5°	70.8	17.3	4.4	2.3	1.7	1.5	1.2	2.1	3.3	4.4	4.6
80°	24.0	7.7	3.5	2.1	1.7	1.5	1.2	2.1	3.1	4.2	4.4
82.5°	13.1	4.4	3.1	1.9	1.7	1.2	1.0	1.9	2.9	4.2	4.4
85°	10.2	3.1	2.5	1.9	1.7	1.2	1.0	1.9	2.9	4.0	4.2
87.5°	5.2	2.3	2.1	1.9	1.7	1.2	1.0	1.7	2.7	3.7	4.2
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)