

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: P199188

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199188
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-SL3-8030-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3385 lumens
Efficiency: N/A
Efficacy: 76.9 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): 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

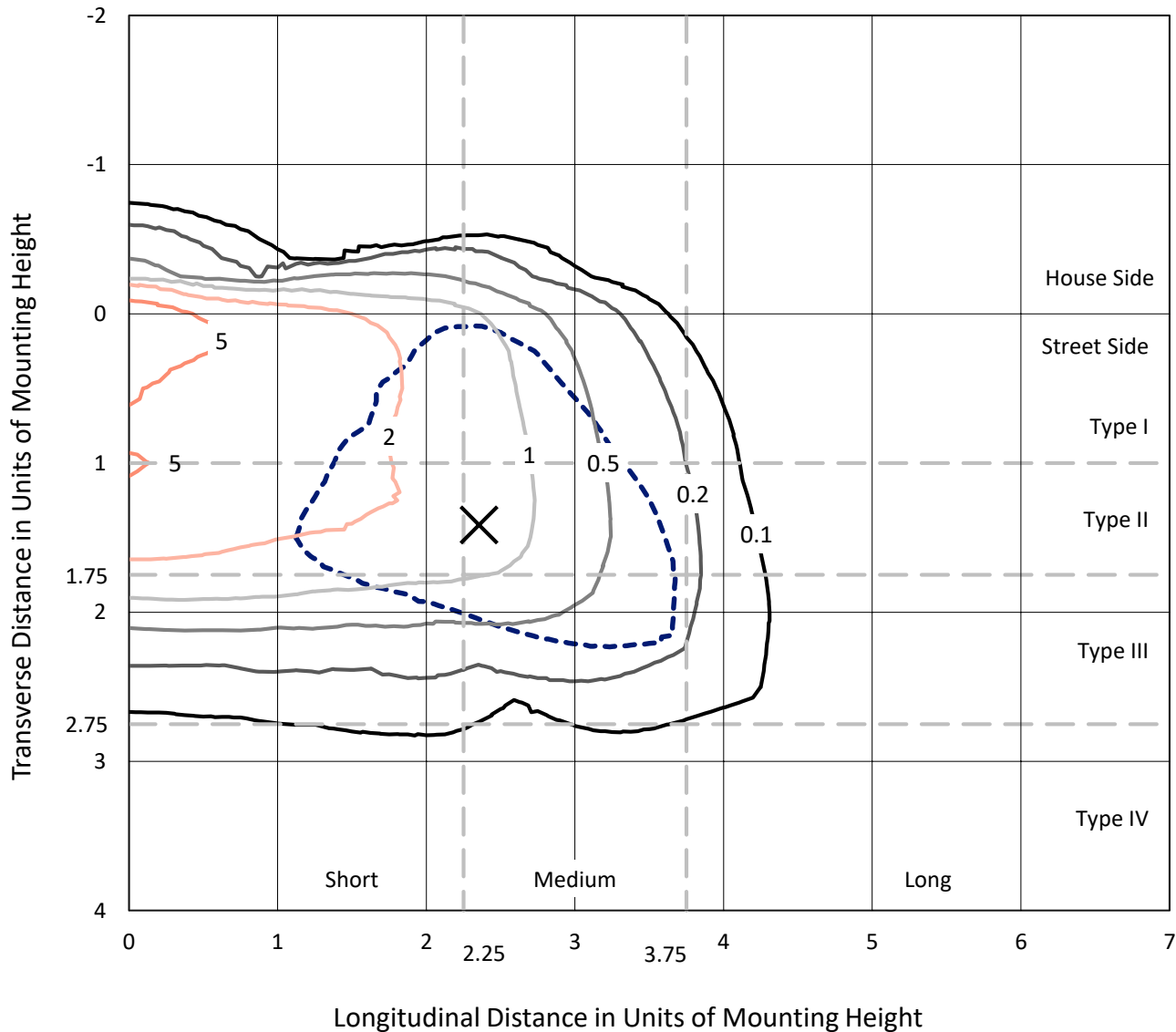


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

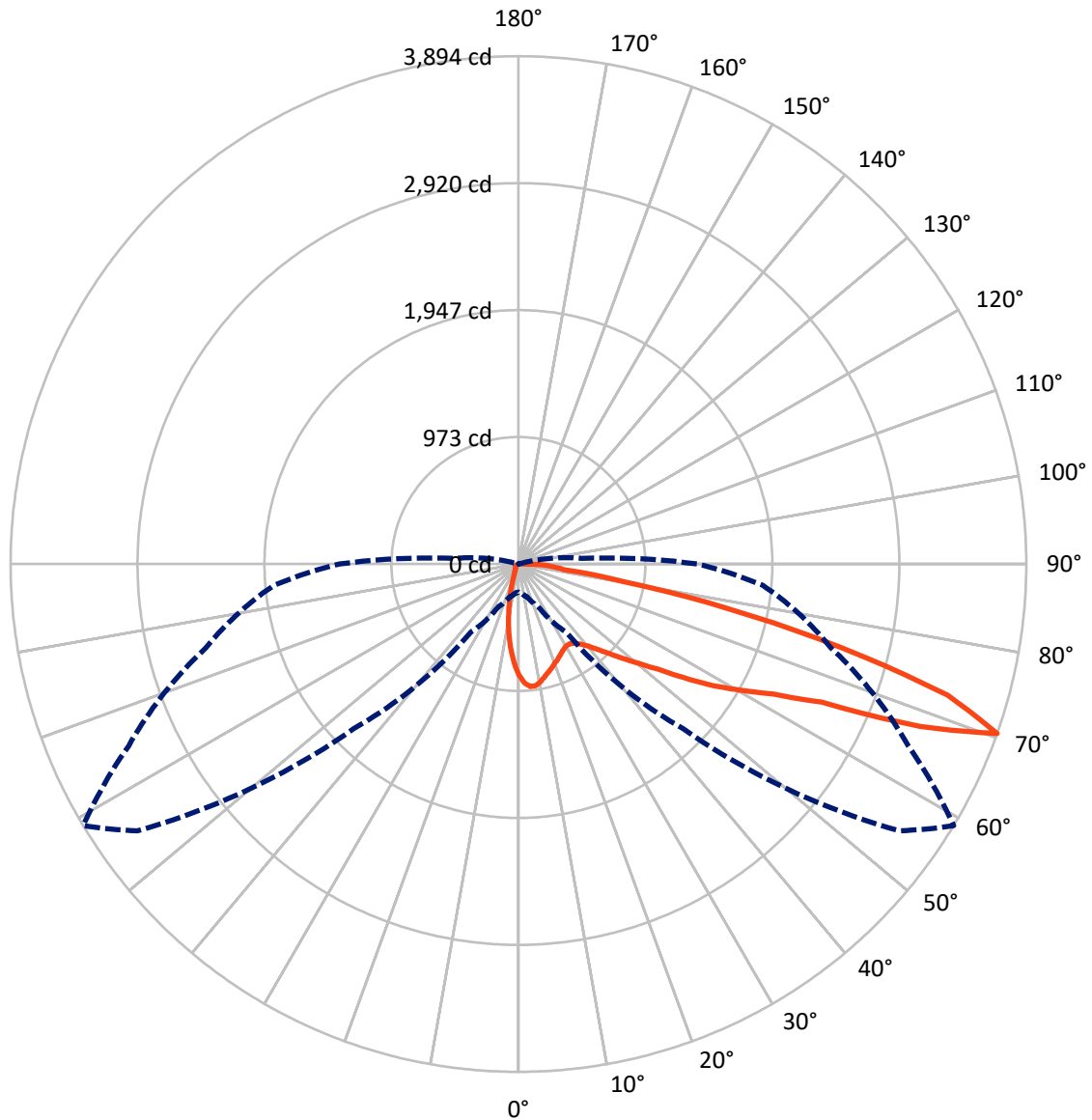


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - Non-Cutoff

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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	260.2	0.0	260.2
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3124.8	0.0	3124.8
	% Fixture	92.3	0.0	92.3
Total	Lumens	3385.0	0.0	3385.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	2.1
10°-20°	147.6	4.4
20°-30°	199.8	5.9
30°-40°	288.4	8.5
40°-50°	479.0	14.1
50°-60°	732.6	21.6
60°-70°	911.2	26.9
70°-80°	503.7	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°	3385.0	100.0
0°-180°	3385.0	100.0



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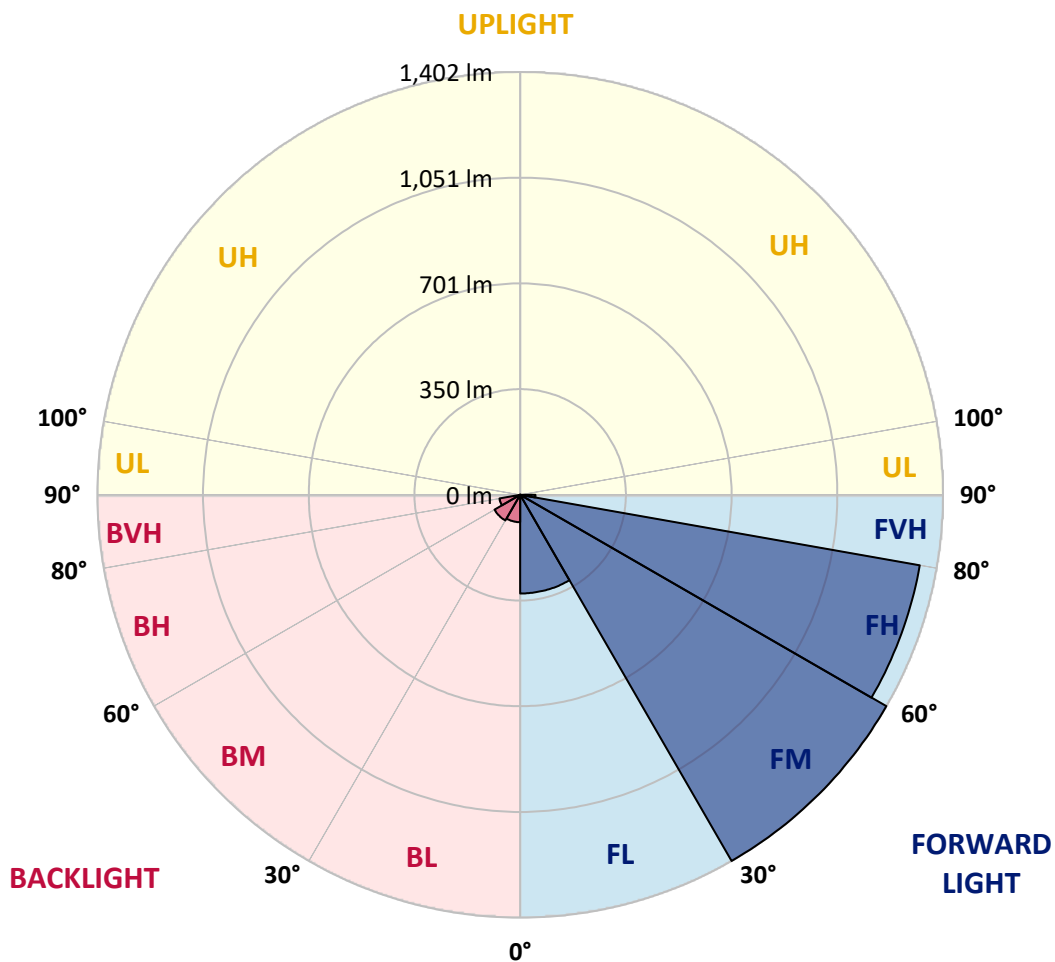
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.2	9.7			
FM	(30°-60°)	1401.8	41.4			
FH	(60°-80°)	1345.1	39.7			G1/1800
FVH	(80°-90°)	50.7	1.5			G1/100
BL	(0°-30°)	90.7	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°	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9
2.5°	967.5	966.0	959.6	958.3	951.2	936.9	920.3	913.7	900.1	878.7	854.9
5°	983.6	984.4	984.9	982.1	981.1	969.3	950.9	943.0	924.9	889.7	846.2
7.5°	923.4	925.4	931.8	934.6	946.9	951.4	947.6	942.5	928.2	886.6	825.6
10°	859.8	863.6	870.5	875.1	890.2	902.4	918.0	919.3	916.2	876.4	802.3
12.5°	805.1	808.7	816.4	825.6	840.9	856.7	879.9	888.1	898.3	869.7	785.7
15°	758.1	759.2	766.6	778.1	798.2	819.9	847.5	859.5	879.4	867.2	773.0
17.5°	717.0	717.3	722.1	732.6	757.1	785.7	817.9	833.7	859.0	863.6	761.7
20°	690.0	689.7	690.0	695.6	717.3	751.2	790.3	806.9	839.3	859.3	750.2
22.5°	680.8	679.5	673.6	671.6	685.4	715.2	762.0	783.7	821.7	858.0	741.8
25°	692.0	691.2	678.7	667.0	668.3	686.9	733.1	759.7	807.9	862.6	739.8
27.5°	728.3	726.7	707.6	684.6	670.0	673.4	711.7	739.5	797.0	873.8	742.6
30°	775.8	776.0	755.6	727.8	693.5	674.6	700.2	726.5	789.6	890.7	748.7
32.5°	828.6	828.4	813.8	781.6	738.0	698.1	705.3	727.5	790.6	915.4	760.4
35°	883.3	880.5	875.6	847.3	796.2	739.2	728.5	744.9	801.3	948.1	780.4
37.5°	946.3	945.3	950.2	920.3	868.2	799.8	769.4	780.4	828.4	996.4	812.5
40°	1046.7	1041.1	1043.4	1002.8	949.4	881.2	826.6	829.4	871.5	1060.2	863.3
42.5°	1238.0	1215.2	1172.6	1096.5	1038.8	971.6	901.4	896.5	932.6	1137.6	930.3
45°	1466.5	1440.4	1332.9	1199.9	1128.2	1068.7	993.8	980.8	1007.6	1229.8	1016.6
47.5°	1657.2	1629.2	1486.7	1307.9	1219.1	1168.8	1096.2	1080.9	1097.5	1336.8	1120.2
50°	1722.4	1706.8	1581.7	1397.8	1310.7	1281.1	1224.7	1199.1	1203.2	1452.2	1241.3
52.5°	1692.5	1687.1	1603.4	1459.3	1395.5	1405.2	1365.4	1338.6	1334.0	1578.3	1375.1
55°	1629.4	1626.9	1586.0	1493.6	1470.3	1518.8	1562.8	1539.5	1496.1	1712.4	1485.6
57.5°	1539.3	1549.0	1578.3	1559.4	1562.3	1638.9	1746.1	1758.1	1693.2	1819.1	1567.6
60°	1298.5	1324.5	1459.1	1630.2	1761.2	1838.5	1942.5	1964.9	1860.2	1892.2	1662.4
62.5°	959.9	997.2	1188.9	1503.3	1870.7	2218.3	2203.7	2193.7	2019.6	1990.0	1834.7
65°	563.8	607.5	769.6	1174.6	1705.5	2462.4	2691.4	2553.5	2262.4	2193.2	2109.2
67.5°	280.9	281.1	354.4	620.0	1260.4	2292.1	3403.4	3323.7	2778.8	2492.8	2217.5
70°	216.0	221.9	262.2	360.3	637.4	1785.2	3566.5	3893.6	3297.6	2479.5	1881.4
72.5°	183.1	186.9	233.4	313.6	476.5	980.0	3087.5	3441.7	3146.7	2094.9	1386.8
75°	131.8	134.8	206.6	284.5	438.7	486.2	2117.9	2552.5	2361.0	1473.6	763.3
77.5°	32.7	32.4	72.0	230.8	392.5	405.0	1215.2	1636.8	1354.6	603.4	196.1
80°	14.6	14.0	16.3	48.5	365.2	382.3	534.5	826.6	519.6	97.8	60.0
82.5°	10.2	9.7	10.2	17.9	122.1	354.7	323.0	358.3	190.2	33.5	25.5
85°	3.3	3.1	5.6	15.1	34.2	204.5	315.1	267.6	141.5	14.3	17.1
87.5°	0.5	0.5	2.0	8.2	10.0	68.2	184.9	185.4	63.6	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°	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9
2.5°	842.9	827.9	806.7	785.5	766.3	746.7	730.8	723.4	720.1	715.5	705.5
5°	823.5	796.2	749.7	704.0	661.4	620.5	585.5	565.6	544.2	543.1	532.7
7.5°	792.4	753.5	680.3	609.3	544.2	481.9	428.2	393.5	369.8	354.9	344.7
10°	757.6	707.8	610.8	511.0	422.4	339.1	270.2	225.2	197.9	184.1	176.2
12.5°	730.1	667.5	542.4	416.7	305.7	210.2	146.1	113.4	98.8	93.2	90.7
15°	706.3	630.5	478.3	332.5	204.0	120.8	84.5	73.8	71.5	71.5	71.2
17.5°	682.3	594.7	416.0	249.7	128.4	79.2	66.6	65.1	65.4	66.1	66.1
20°	659.6	560.8	356.0	178.0	84.3	63.3	60.5	60.0	60.8	61.8	61.5
22.5°	641.2	530.9	299.8	122.3	64.9	57.5	55.7	54.9	55.4	56.2	55.9
25°	628.2	505.3	248.2	85.3	56.4	52.3	50.3	49.3	48.8	49.3	49.0
27.5°	620.3	483.9	199.7	64.1	50.6	47.2	44.7	42.6	41.4	41.4	40.9
30°	615.1	463.7	156.5	53.1	45.7	42.1	38.6	35.7	33.7	33.2	32.9
32.5°	614.9	446.4	117.0	47.0	41.1	37.0	32.7	29.1	26.8	26.3	26.0
35°	621.3	432.3	86.1	42.4	37.0	32.2	27.3	23.5	21.4	21.4	21.2
37.5°	637.9	424.1	65.1	38.8	33.7	28.1	23.0	19.4	17.6	18.1	18.1
40°	668.8	422.6	53.1	36.0	30.9	24.5	18.6	15.8	15.1	15.8	15.8
42.5°	716.0	430.8	47.2	34.0	28.3	20.9	15.6	13.5	13.3	14.0	14.0
45°	777.6	446.9	43.9	32.2	25.5	17.4	13.0	11.7	11.5	12.5	12.5
47.5°	852.1	468.6	40.9	30.1	22.7	14.3	11.0	10.0	10.0	11.0	11.2
50°	940.5	497.9	37.8	28.1	20.4	12.0	9.2	8.4	8.7	9.7	10.0
52.5°	1042.1	533.9	35.0	26.3	17.9	9.7	7.7	7.1	7.4	8.4	8.7
55°	1129.7	565.4	31.7	24.5	14.6	7.9	6.4	6.1	6.4	7.7	7.7
57.5°	1206.0	595.5	28.6	21.7	11.5	6.4	5.1	5.1	5.6	6.9	7.1
60°	1307.4	643.0	26.0	18.4	8.7	4.9	4.1	4.3	5.1	6.1	6.4
62.5°	1486.9	723.7	22.7	15.3	6.4	3.8	3.3	3.6	4.6	5.9	6.1
65°	1711.6	800.0	18.9	12.8	4.9	2.8	2.6	3.3	4.6	5.9	6.1
67.5°	1688.7	695.8	14.8	10.2	3.6	2.3	2.0	3.1	4.3	5.9	6.1
70°	1369.5	487.7	11.0	6.9	2.8	2.0	2.0	3.1	4.3	5.6	5.9
72.5°	949.9	271.4	8.4	4.6	2.6	2.0	1.8	2.8	4.1	5.6	5.9
75°	452.0	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°	29.4	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	4.9	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)