

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: P198546

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198546
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-SL3-7030-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 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: 2995 lumens
Efficiency: N/A
Efficacy: 88.1 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

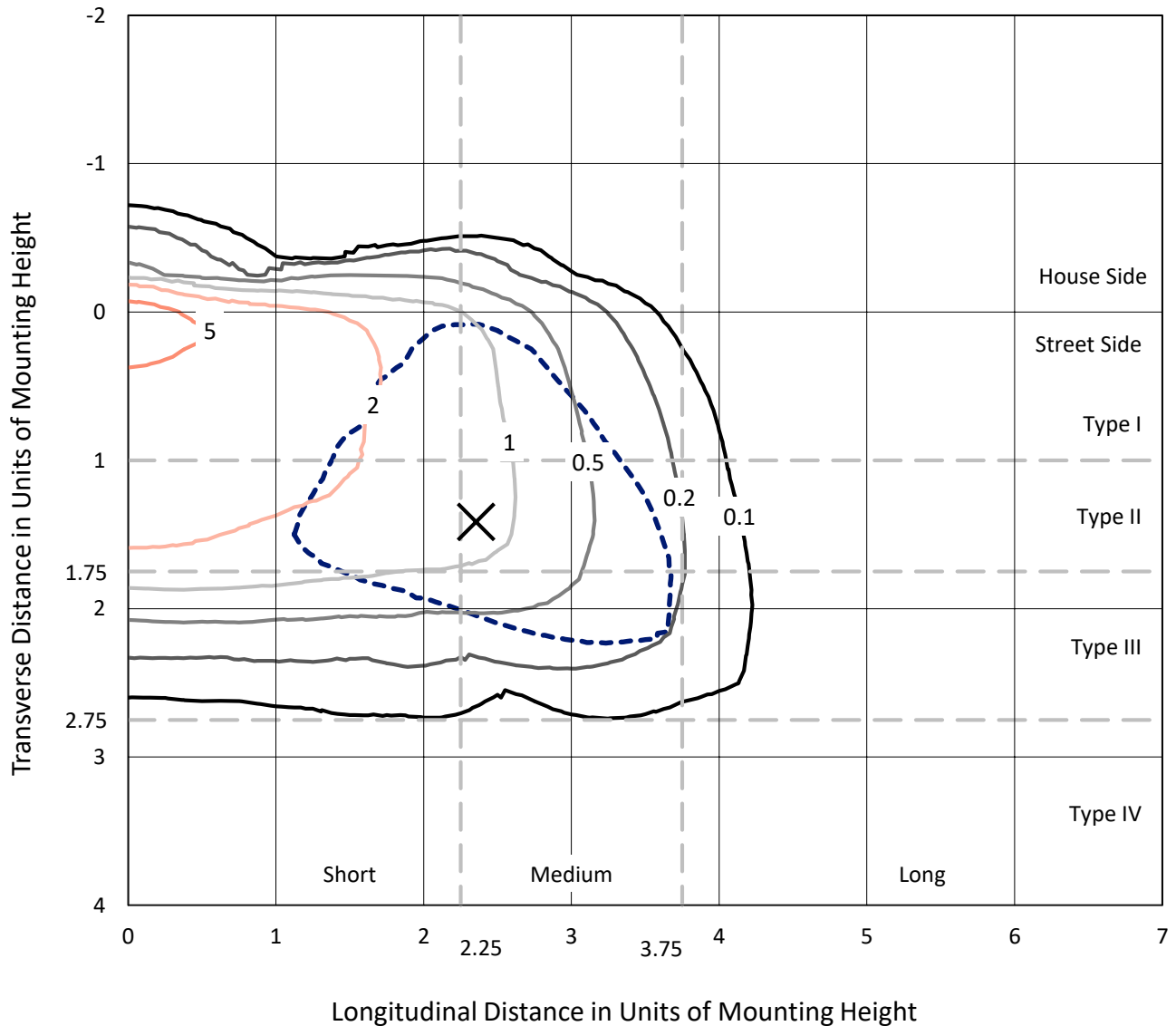


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

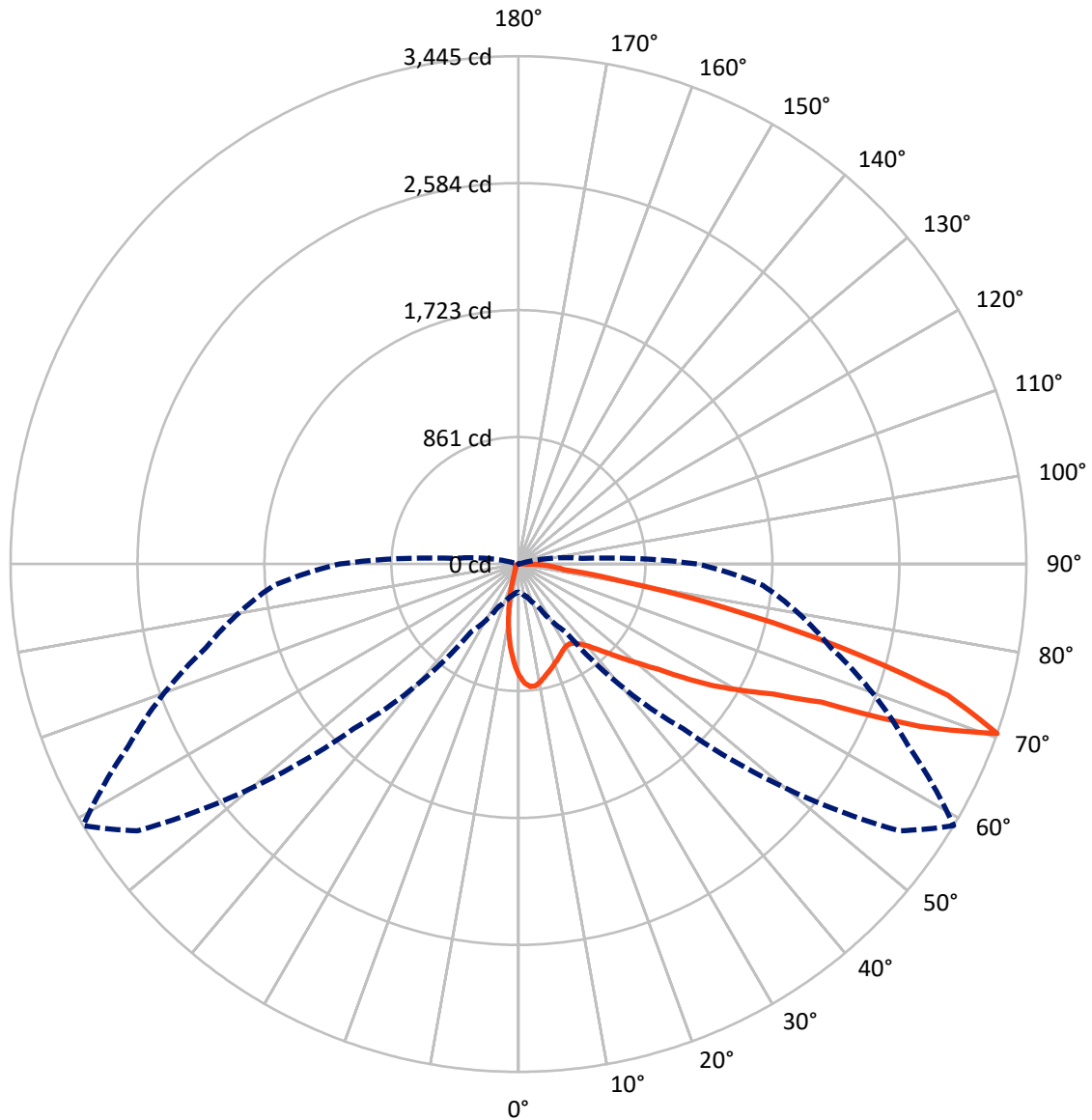


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - Non-Cutoff

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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	230.2	0.0	230.2
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	2764.8	0.0	2764.8
	% Fixture	92.3	0.0	92.3
Total	Lumens	2995.0	0.0	2995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	2.1
10°-20°	130.6	4.4
20°-30°	176.8	5.9
30°-40°	255.2	8.5
40°-50°	423.8	14.1
50°-60°	648.2	21.6
60°-70°	806.2	26.9
70°-80°	445.7	14.9
80°-90°	46.2	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°	2995.0	100.0
0°-180°	2995.0	100.0



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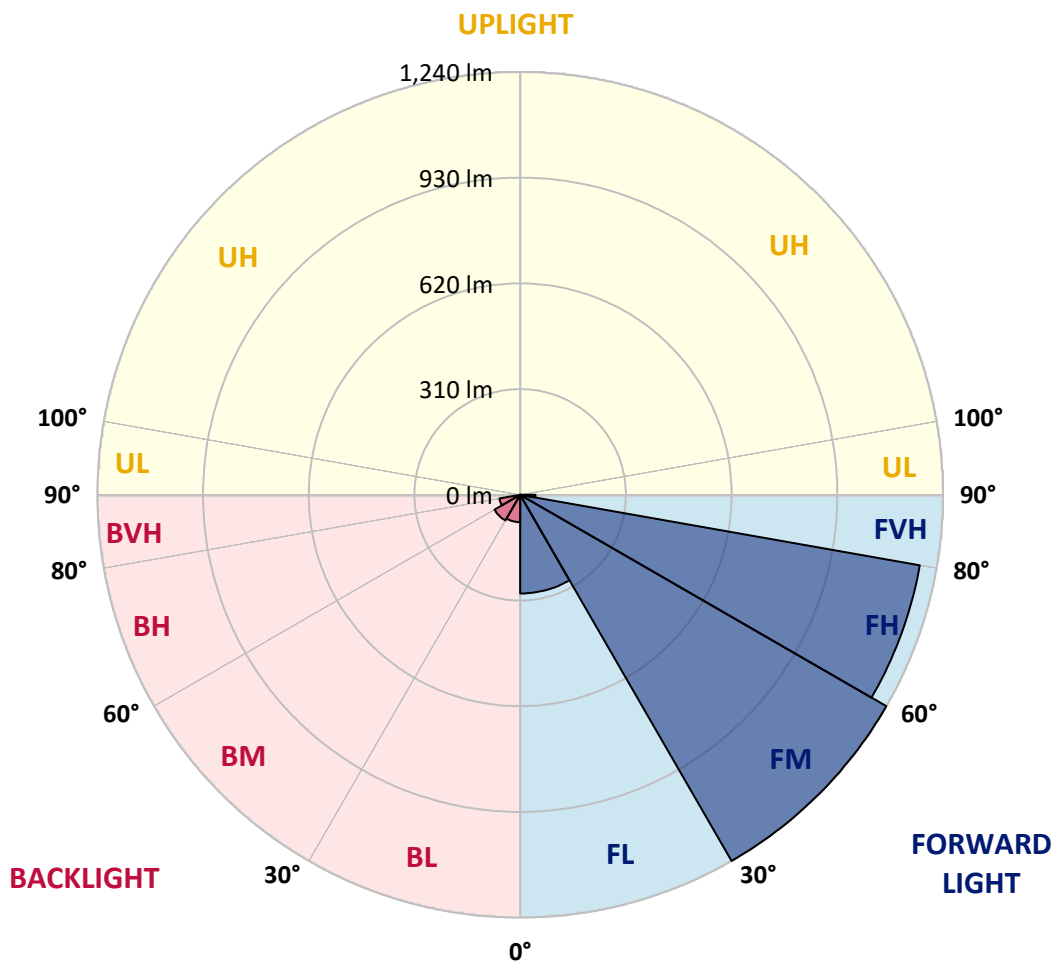
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.5	9.7			
FM	(30°-60°)	1240.3	41.4			
FH	(60°-80°)	1190.2	39.7			G1/1800
FVH	(80°-90°)	44.9	1.5			G1/100
BL	(0°-30°)	80.2	2.7	B0/110		
BM	(30°-60°)	86.9	2.9	B0/220		
BH	(60°-80°)	61.8	2.1	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	856.1	854.7	849.1	847.9	841.6	828.9	814.3	808.4	796.4	777.4	756.4
5°	870.3	871.0	871.4	868.9	868.0	857.6	841.4	834.4	818.3	787.2	748.7
7.5°	817.0	818.8	824.4	826.9	837.8	841.8	838.4	833.9	821.3	784.4	730.4
10°	760.7	764.1	770.2	774.3	787.6	798.4	812.2	813.4	810.6	775.4	709.9
12.5°	712.4	715.5	722.3	730.4	744.0	758.0	778.6	785.8	794.8	769.5	695.2
15°	670.8	671.7	678.3	688.4	706.3	725.5	749.9	760.5	778.1	767.3	683.9
17.5°	634.4	634.6	638.9	648.2	669.9	695.2	723.7	737.7	760.0	764.1	674.0
20°	610.5	610.2	610.5	615.4	634.6	664.7	699.3	713.9	742.6	760.3	663.8
22.5°	602.3	601.2	596.0	594.2	606.4	632.8	674.2	693.4	727.1	759.1	656.3
25°	612.3	611.6	600.5	590.1	591.3	607.8	648.7	672.2	714.9	763.2	654.5
27.5°	644.4	643.0	626.1	605.7	592.8	595.8	629.7	654.3	705.1	773.1	657.0
30°	686.4	686.6	668.5	643.9	613.6	596.9	619.5	642.8	698.6	788.1	662.4
32.5°	733.2	732.9	720.0	691.6	652.9	617.7	624.0	643.7	699.5	810.0	672.8
35°	781.5	779.0	774.7	749.6	704.5	654.1	644.6	659.0	709.0	838.9	690.5
37.5°	837.3	836.4	840.7	814.3	768.2	707.6	680.7	690.5	732.9	881.6	718.9
40°	926.1	921.1	923.2	887.2	840.0	779.7	731.3	733.8	771.1	938.1	763.9
42.5°	1095.3	1075.2	1037.5	970.2	919.1	859.7	797.5	793.3	825.1	1006.5	823.1
45°	1297.5	1274.5	1179.4	1061.7	998.2	945.5	879.3	867.8	891.5	1088.1	899.4
47.5°	1466.3	1441.5	1315.4	1157.2	1078.6	1034.1	969.9	956.4	971.1	1182.8	991.2
50°	1523.9	1510.1	1399.4	1236.8	1159.7	1133.5	1083.6	1061.0	1064.6	1284.9	1098.3
52.5°	1497.5	1492.7	1418.6	1291.2	1234.7	1243.3	1208.1	1184.3	1180.3	1396.5	1216.6
55°	1441.7	1439.4	1403.3	1321.5	1300.9	1343.9	1382.7	1362.2	1323.7	1515.1	1314.5
57.5°	1361.9	1370.5	1396.5	1379.8	1382.3	1450.0	1544.9	1555.5	1498.2	1609.5	1387.0
60°	1148.9	1171.9	1291.0	1442.4	1558.3	1626.7	1718.7	1738.6	1645.9	1674.2	1470.8
62.5°	849.3	882.3	1051.9	1330.1	1655.2	1962.7	1949.8	1941.0	1786.9	1760.7	1623.3
65°	498.9	537.5	681.0	1039.3	1509.0	2178.7	2381.3	2259.3	2001.8	1940.5	1866.2
67.5°	248.5	248.8	313.6	548.6	1115.2	2028.0	3011.2	2940.7	2458.6	2205.6	1962.0
70°	191.1	196.3	232.0	318.8	563.9	1579.5	3155.6	3445.0	2917.7	2193.8	1664.7
72.5°	162.0	165.4	206.5	277.4	421.6	867.1	2731.8	3045.1	2784.2	1853.6	1227.0
75°	116.6	119.3	182.8	251.7	388.2	430.2	1873.9	2258.4	2089.0	1303.9	675.3
77.5°	28.9	28.7	63.7	204.2	347.3	358.3	1075.2	1448.2	1198.6	533.9	173.5
80°	12.9	12.4	14.5	42.9	323.1	338.2	472.9	731.3	459.8	86.5	53.1
82.5°	9.0	8.6	9.0	15.8	108.0	313.8	285.8	317.0	168.3	29.6	22.6
85°	2.9	2.7	5.0	13.3	30.3	181.0	278.8	236.8	125.2	12.7	15.1
87.5°	0.5	0.5	1.8	7.2	8.8	60.3	163.6	164.0	56.3	7.5	6.8
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°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	745.8	732.5	713.7	695.0	678.0	660.6	646.6	640.1	637.1	633.1	624.3
5°	728.6	704.5	663.3	622.9	585.2	549.0	518.1	500.4	481.5	480.6	471.3
7.5°	701.1	666.7	601.9	539.1	481.5	426.3	378.9	348.2	327.2	314.0	305.0
10°	670.3	626.3	540.4	452.1	373.7	300.0	239.0	199.3	175.1	162.9	155.9
12.5°	645.9	590.6	479.9	368.7	270.4	185.9	129.2	100.3	87.4	82.5	80.2
15°	624.9	557.8	423.2	294.2	180.5	106.9	74.8	65.3	63.3	63.3	63.0
17.5°	603.7	526.2	368.0	221.0	113.6	70.0	59.0	57.6	57.8	58.5	58.5
20°	583.6	496.1	315.0	157.5	74.6	56.0	53.5	53.1	53.8	54.7	54.4
22.5°	567.3	469.7	265.2	108.2	57.4	50.8	49.3	48.6	49.0	49.7	49.5
25°	555.8	447.1	219.6	75.5	49.9	46.3	44.5	43.6	43.2	43.6	43.4
27.5°	548.8	428.1	176.7	56.7	44.7	41.8	39.5	37.7	36.6	36.6	36.1
30°	544.3	410.3	138.5	47.0	40.4	37.3	34.1	31.6	29.8	29.4	29.1
32.5°	544.0	394.9	103.5	41.6	36.4	32.8	28.9	25.8	23.7	23.3	23.0
35°	549.7	382.5	76.1	37.5	32.8	28.5	24.2	20.8	19.0	19.0	18.8
37.5°	564.4	375.3	57.6	34.3	29.8	24.9	20.3	17.2	15.6	16.0	16.0
40°	591.7	373.9	47.0	31.9	27.3	21.7	16.5	14.0	13.3	14.0	14.0
42.5°	633.5	381.1	41.8	30.0	25.1	18.5	13.8	12.0	11.7	12.4	12.4
45°	688.0	395.4	38.9	28.5	22.6	15.4	11.5	10.4	10.2	11.1	11.1
47.5°	753.9	414.6	36.1	26.7	20.1	12.7	9.7	8.8	8.8	9.7	9.9
50°	832.1	440.6	33.4	24.9	18.1	10.6	8.1	7.5	7.7	8.6	8.8
52.5°	922.0	472.4	31.0	23.3	15.8	8.6	6.8	6.3	6.6	7.5	7.7
55°	999.5	500.2	28.0	21.7	12.9	7.0	5.6	5.4	5.6	6.8	6.8
57.5°	1067.1	526.9	25.3	19.2	10.2	5.6	4.5	4.5	5.0	6.1	6.3
60°	1156.8	568.9	23.0	16.3	7.7	4.3	3.6	3.8	4.5	5.4	5.6
62.5°	1315.6	640.3	20.1	13.6	5.6	3.4	2.9	3.2	4.1	5.2	5.4
65°	1514.4	707.8	16.7	11.3	4.3	2.5	2.3	2.9	4.1	5.2	5.4
67.5°	1494.1	615.7	13.1	9.0	3.2	2.0	1.8	2.7	3.8	5.2	5.4
70°	1211.7	431.5	9.7	6.1	2.5	1.8	1.8	2.7	3.8	5.0	5.2
72.5°	840.5	240.2	7.5	4.1	2.3	1.8	1.6	2.5	3.6	5.0	5.2
75°	399.9	73.7	5.9	2.9	2.0	1.6	1.4	2.5	3.6	5.0	5.2
77.5°	76.8	18.8	4.7	2.5	1.8	1.6	1.4	2.3	3.6	4.7	5.0
80°	26.0	8.4	3.8	2.3	1.8	1.6	1.4	2.3	3.4	4.5	4.7
82.5°	14.2	4.7	3.4	2.0	1.8	1.4	1.1	2.0	3.2	4.5	4.7
85°	11.1	3.4	2.7	2.0	1.8	1.4	1.1	2.0	3.2	4.3	4.5
87.5°	5.6	2.5	2.3	2.0	1.8	1.4	1.1	1.8	2.9	4.1	4.5
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)