

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: P959951

Luminaire Tested: **NVN-SB1B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3836.6 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

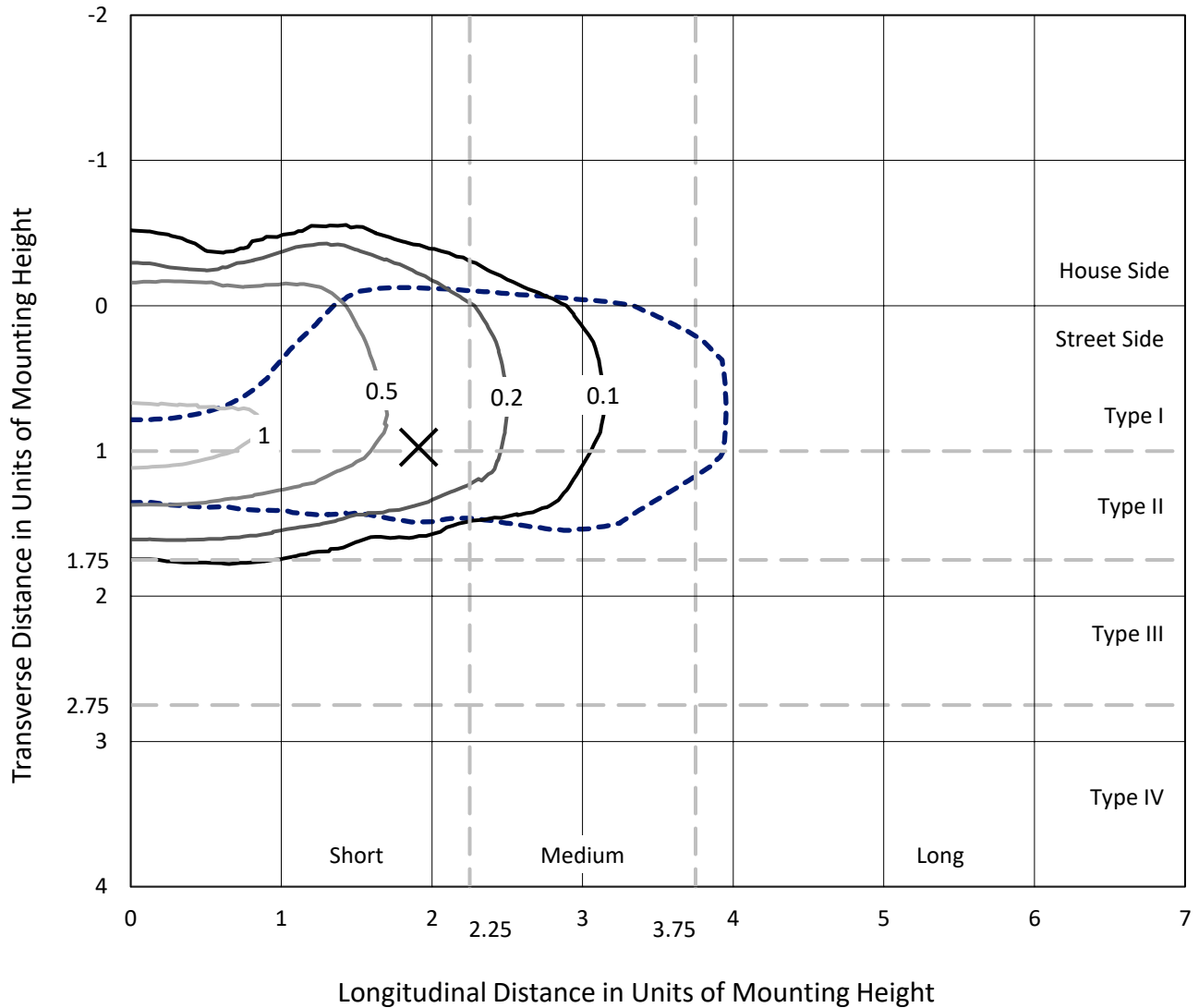
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

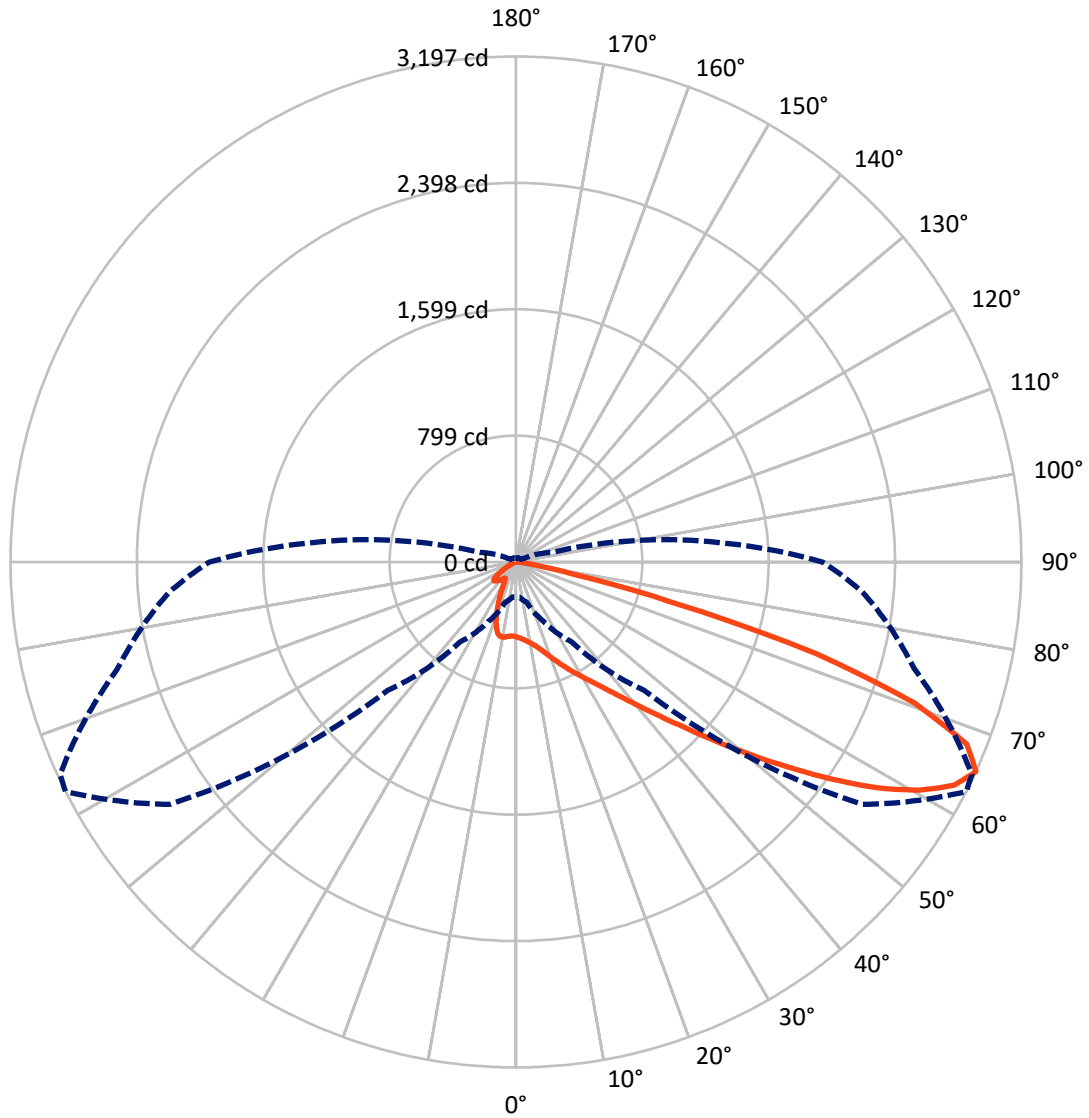
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	563.9	0.0	563.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3272.6	0.0	3272.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	3836.6	0.0	3836.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.2
10°-20°	123.8	3.2
20°-30°	215.5	5.6
30°-40°	388.5	10.1
40°-50°	770.5	20.1
50°-60°	1049.5	27.4
60°-70°	837.7	21.8
70°-80°	379.1	9.9
80°-90°	27.2	0.7
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°	3836.6	100.0
0°-180°	3836.6	100.0

Coefficient of Utilization



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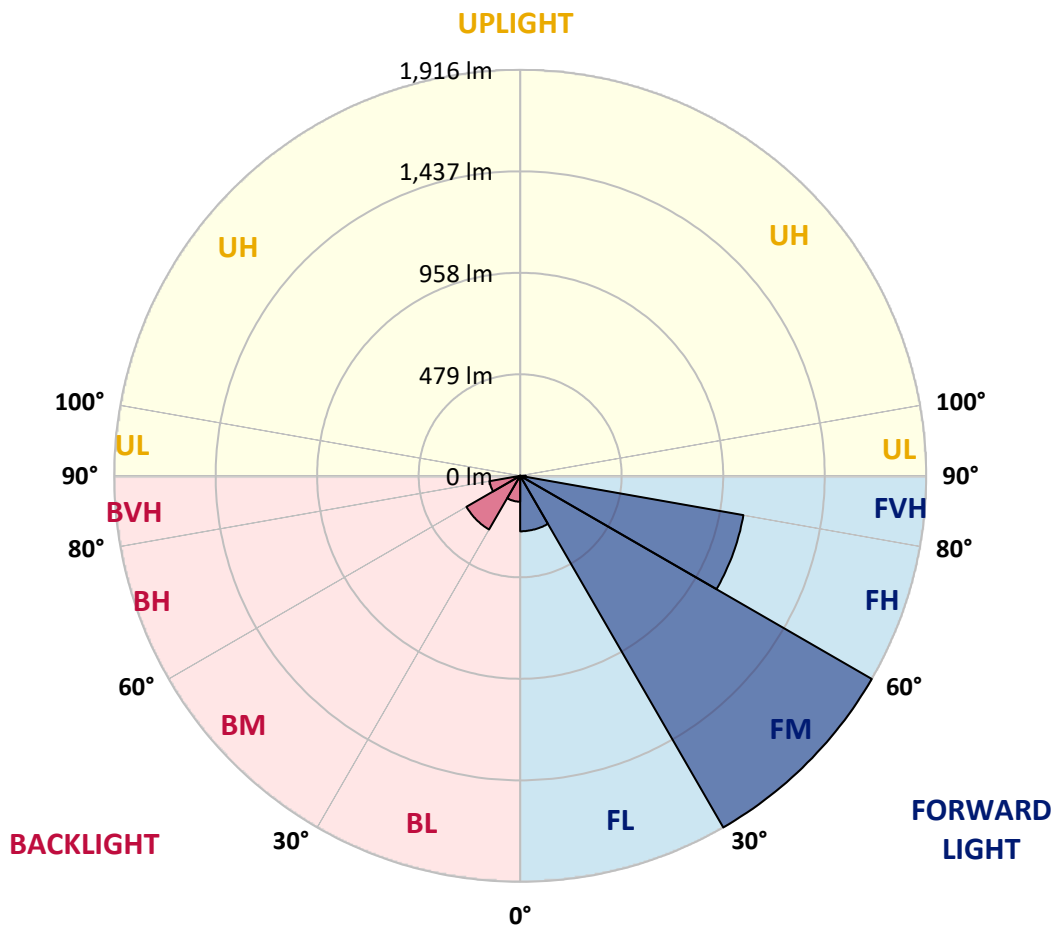
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.9	6.8			
FM (30°-60°)	1915.9	49.9			
FH (60°-80°)	1069.6	27.9			G1/1800
FVH (80°-90°)	25.2	0.7			G1/100
BL (0°-30°)	122.0	3.2	B1/500		
BM (30°-60°)	292.6	7.6	B1/1000		
BH (60°-80°)	147.2	3.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6
2.5°	484.6	483.3	485.1	484.3	483.8	482.8	482.3	481.6	480.6	479.8	476.6
5°	486.0	485.1	487.0	488.5	490.2	491.7	492.5	493.5	492.5	490.4	487.2
7.5°	474.8	474.3	478.3	483.0	490.2	496.2	502.8	506.5	506.8	505.9	502.6
10°	474.1	472.7	476.6	482.5	491.7	502.6	514.1	522.0	523.2	526.5	522.9
12.5°	486.5	485.1	490.7	497.0	506.5	517.8	532.1	543.1	544.8	549.5	546.8
15°	507.3	505.4	511.8	520.0	532.1	545.0	560.1	570.1	571.4	577.3	572.5
17.5°	531.6	529.7	537.1	545.8	559.0	576.7	594.1	605.2	606.8	610.5	601.8
20°	562.7	560.4	566.1	574.1	588.0	609.2	630.1	645.9	645.5	645.5	631.3
22.5°	598.9	595.2	600.2	606.5	619.7	645.3	673.0	691.8	691.8	684.4	660.9
25°	637.7	634.0	639.5	645.3	656.9	685.9	718.4	741.7	742.7	730.0	692.6
27.5°	686.2	681.5	685.7	692.6	699.5	729.0	767.5	794.5	795.0	775.4	722.6
30°	779.7	766.2	753.1	745.6	748.8	778.1	819.3	849.1	851.8	824.8	755.4
32.5°	950.7	948.0	901.6	840.9	809.2	830.9	877.1	913.0	914.5	880.0	797.9
35°	1216.5	1213.3	1138.7	1023.1	919.8	901.6	947.3	989.7	988.7	949.7	853.0
37.5°	1533.7	1530.8	1432.4	1277.8	1110.7	1008.5	1037.8	1082.4	1089.0	1037.8	924.3
40°	1804.8	1794.0	1731.7	1582.6	1364.1	1185.9	1166.7	1196.2	1203.0	1142.4	1014.9
42.5°	2010.1	2000.9	1969.2	1876.1	1670.7	1448.2	1318.4	1329.7	1337.4	1264.5	1118.8
45°	2116.5	2114.4	2127.1	2118.4	1983.3	1770.3	1535.3	1488.1	1491.0	1399.9	1236.9
47.5°	2131.6	2130.5	2188.3	2270.2	2251.9	2133.4	1813.7	1685.5	1675.3	1552.8	1365.1
50°	2042.9	2040.8	2151.6	2305.0	2431.4	2438.6	2130.0	1908.0	1885.3	1710.8	1498.9
52.5°	1759.7	1759.1	1941.2	2196.5	2494.4	2705.6	2442.5	2152.4	2114.4	1878.2	1640.4
55°	1354.0	1363.8	1572.6	1874.2	2379.4	2834.1	2723.0	2423.7	2365.4	2046.6	1770.8
57.5°	959.2	973.4	1179.8	1448.5	2022.5	2758.2	2912.8	2695.6	2632.8	2214.4	1903.0
60°	515.2	527.9	734.5	1055.2	1504.7	2474.7	3012.9	2931.6	2872.2	2373.9	2022.3
62.5°	307.0	311.2	396.7	681.2	1017.7	1890.6	2970.3	3111.3	3062.5	2507.7	2126.1
65°	220.4	221.2	264.2	415.9	617.9	1148.6	2672.4	3197.4	3182.3	2608.5	2202.8
67.5°	185.5	185.0	203.0	276.3	421.0	575.4	2048.2	3075.7	3139.6	2672.4	2246.4
70°	159.2	159.9	181.0	202.4	316.4	325.7	1018.2	2677.9	2814.1	2689.3	2243.7
72.5°	118.5	121.2	140.6	184.5	238.8	224.1	351.6	1985.6	2231.8	2533.8	2127.4
75°	83.6	85.0	99.0	155.2	178.1	163.1	179.5	1026.4	1342.1	1942.6	1741.2
77.5°	64.4	66.7	74.9	108.4	175.5	114.6	109.8	355.3	545.8	1173.4	1193.8
80°	34.8	39.1	54.1	78.4	123.3	81.1	54.3	141.4	185.0	548.7	460.3
82.5°	17.9	20.1	37.7	56.5	70.2	70.7	27.0	58.8	76.3	169.4	63.0
85°	7.2	8.7	25.3	31.2	36.2	34.8	12.1	23.8	27.5	46.9	19.3
87.5°	1.5	2.7	9.2	7.2	6.9	7.4	2.9	5.5	5.3	5.5	3.4
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°	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6	473.6
2.5°	476.4	475.4	472.4	469.2	465.6	463.5	462.2	461.9	460.0	458.7	460.0
5°	484.3	483.3	477.8	471.1	464.0	458.5	453.2	448.4	441.6	440.2	439.7
7.5°	500.2	497.2	488.3	479.3	465.9	449.8	430.2	407.7	387.8	381.6	378.7
10°	519.7	515.8	504.4	488.5	458.7	414.9	367.7	323.9	289.0	279.2	275.5
12.5°	541.8	538.4	523.4	494.0	428.9	349.4	277.2	222.7	189.0	180.5	178.1
15°	568.3	563.2	542.4	485.6	375.6	265.5	190.3	158.1	146.0	144.4	142.8
17.5°	596.2	588.0	559.2	455.3	303.8	188.7	147.0	137.8	132.5	130.9	130.1
20°	621.9	611.3	569.3	409.4	227.0	147.0	131.7	125.7	120.8	119.0	118.0
22.5°	647.5	632.4	569.3	346.9	170.3	130.4	120.8	115.3	109.8	107.4	106.1
25°	674.1	654.1	559.2	277.2	136.9	119.5	110.6	104.6	99.7	96.9	95.8
27.5°	700.0	672.3	536.3	211.2	122.0	110.1	101.1	95.3	90.8	88.7	88.7
30°	724.5	690.2	504.1	160.2	112.1	100.9	92.4	87.3	82.9	80.8	81.1
32.5°	757.8	712.9	469.9	131.4	103.7	92.1	84.5	79.7	75.7	74.2	74.2
35°	803.9	746.4	440.2	129.0	96.6	85.0	77.3	72.9	68.9	67.5	67.5
37.5°	869.4	800.5	424.7	144.9	90.8	78.6	71.5	66.7	63.0	62.0	61.8
40°	950.2	873.9	433.2	160.7	86.8	73.1	66.2	61.5	58.3	57.0	56.8
42.5°	1046.0	964.4	479.8	172.9	84.2	68.4	61.2	56.0	53.8	53.3	53.3
45°	1156.1	1063.9	551.3	185.8	79.9	63.9	56.2	52.3	50.6	50.4	50.1
47.5°	1281.1	1173.2	634.3	201.9	75.7	59.7	52.3	49.6	48.3	47.8	47.8
50°	1405.2	1283.3	719.4	210.8	72.4	55.7	49.1	46.9	45.9	45.6	45.6
52.5°	1535.0	1396.5	788.4	202.4	69.4	52.5	46.4	44.9	43.8	43.6	43.6
55°	1658.9	1488.1	800.2	171.8	63.7	49.4	43.6	42.7	41.4	41.4	41.2
57.5°	1765.5	1534.0	716.4	126.2	57.8	44.6	40.7	39.9	38.8	38.5	38.2
60°	1863.4	1520.8	553.0	85.0	51.5	39.9	37.0	36.4	35.4	34.0	33.8
62.5°	1918.6	1462.8	378.2	55.5	45.1	34.8	32.7	32.5	30.1	27.5	27.0
65°	1939.4	1343.5	236.0	40.4	37.7	29.8	28.3	27.7	24.3	21.4	21.1
67.5°	1921.3	1147.1	119.0	32.0	29.8	24.8	23.3	23.3	20.8	18.2	17.9
70°	1848.4	859.9	50.1	25.6	23.0	19.0	19.0	20.1	17.7	14.8	14.6
72.5°	1690.2	578.5	26.6	19.6	17.1	13.4	15.6	16.4	13.9	11.1	11.1
75°	1343.7	352.9	18.4	14.6	10.9	9.5	11.9	12.4	9.5	7.4	7.2
77.5°	919.0	202.7	12.4	9.2	6.9	5.5	8.2	7.7	5.0	3.4	3.7
80°	403.5	84.5	7.2	4.2	2.7	2.2	2.9	2.2	1.5	1.0	1.0
82.5°	47.3	19.8	2.7	1.5	1.0	0.5	0.3	0.0	0.0	0.0	0.0
85°	9.7	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)