

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: P882108

Luminaire Tested: **NVN-SB1D-827-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6490 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

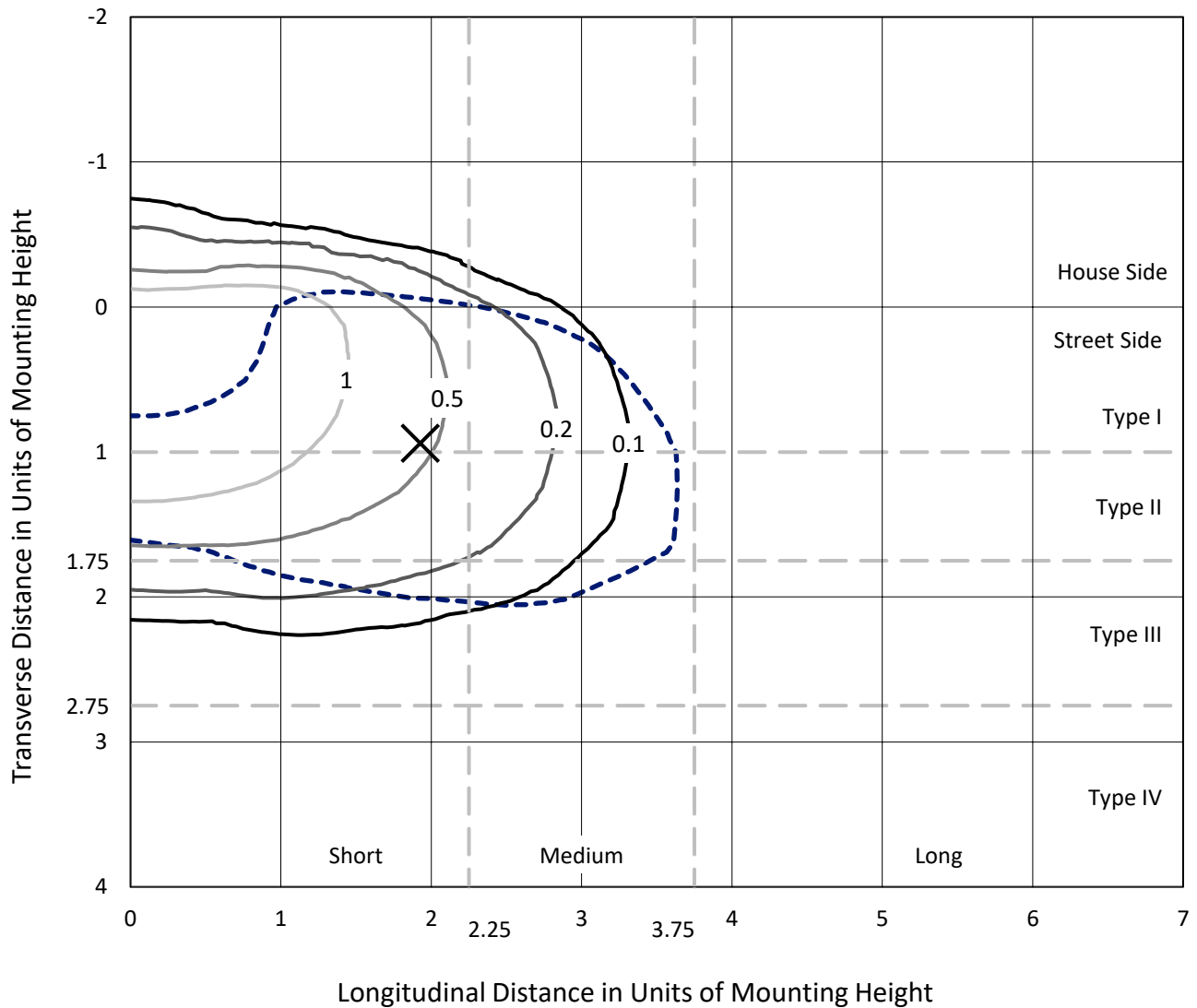
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

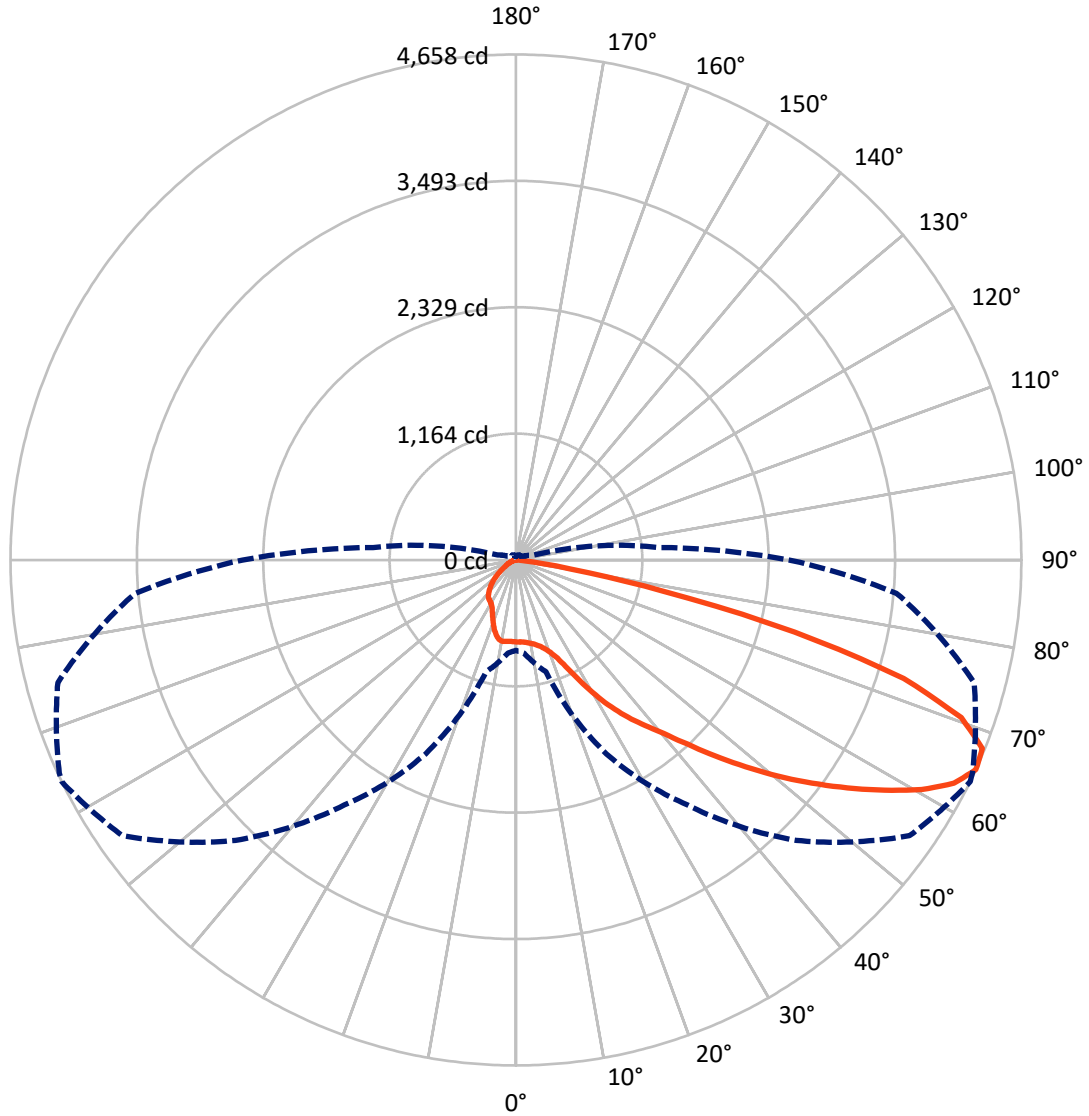
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.9	0.0	867.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5622.1	0.0	5622.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	6490.0	0.0	6490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.1
10°-20°	188.9	2.9
20°-30°	357.9	5.5
30°-40°	724.3	11.2
40°-50°	1233.8	19.0
50°-60°	1677.9	25.9
60°-70°	1575.6	24.3
70°-80°	631.3	9.7
80°-90°	30.6	0.5
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°	6490.0	100.0
0°-180°	6490.0	100.0

Coefficient of Utilization



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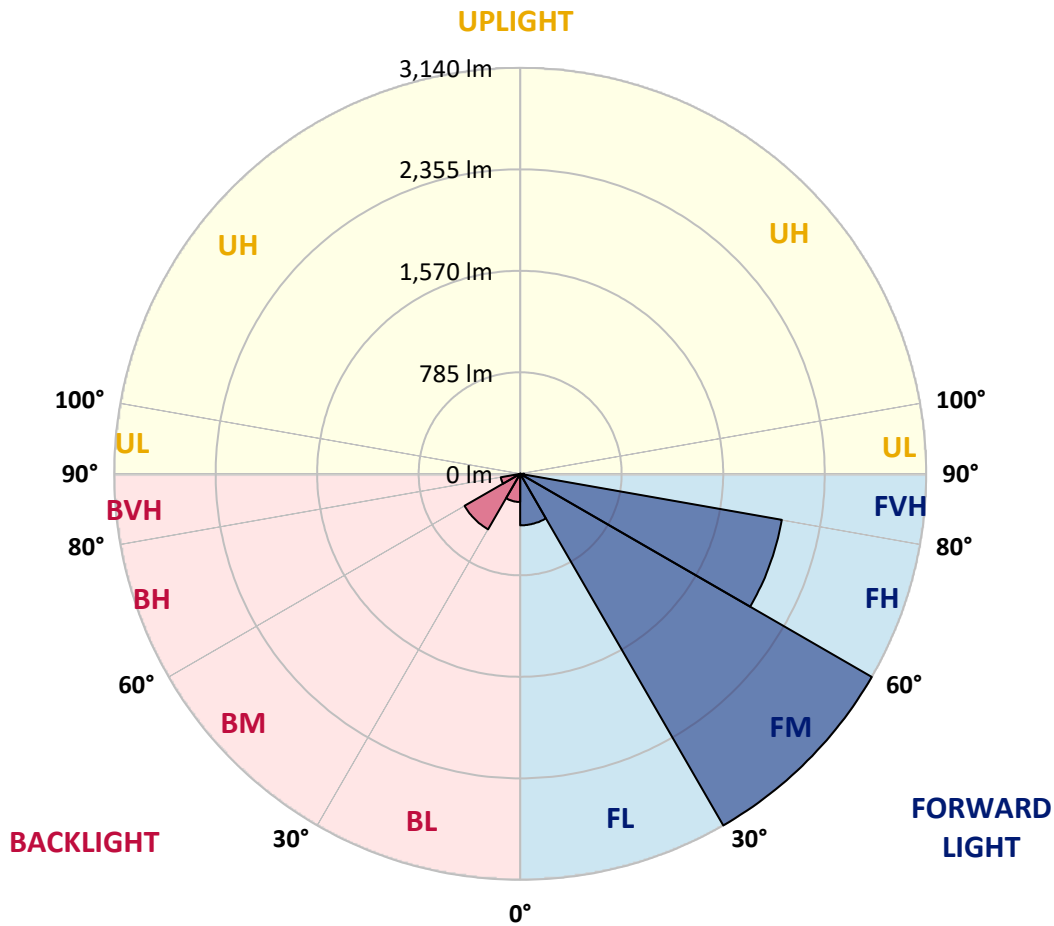
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.6	6.1			
FM (30°-60°)	3139.9	48.4			
FH (60°-80°)	2054.6	31.7			G2/5000
FVH (80°-90°)	29.1	0.4			G1/100
BL (0°-30°)	217.9	3.4	B1/500		
BM (30°-60°)	496.2	7.6	B1/1000		
BH (60°-80°)	152.3	2.3	B1/500		G1/500
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: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	752.2	757.5	756.2	754.9	754.4	755.3	755.7	755.3	755.3	755.3	755.7
5°	737.9	742.2	742.2	745.3	749.6	754.9	758.8	759.6	760.5	761.8	761.4
7.5°	710.5	714.0	716.6	726.6	737.5	751.4	763.1	769.2	770.1	774.9	776.6
10°	691.8	696.1	700.5	710.9	726.6	747.5	767.5	782.3	784.4	795.8	801.0
12.5°	690.9	695.2	700.9	712.2	730.5	752.7	777.0	798.4	802.3	818.8	829.7
15°	700.0	705.3	710.5	724.4	744.0	771.0	797.1	823.6	827.5	851.0	862.8
17.5°	718.7	725.7	729.6	743.5	764.4	794.4	828.8	859.3	862.8	890.2	905.0
20°	755.7	764.0	765.3	776.6	797.1	829.3	870.1	908.0	912.4	943.7	960.2
22.5°	832.3	844.0	833.6	839.3	857.5	889.7	934.1	982.0	988.1	1023.7	1038.5
25°	967.2	983.7	956.7	947.2	955.0	988.5	1044.2	1104.7	1111.6	1140.3	1147.7
27.5°	1232.1	1210.8	1169.9	1129.9	1106.4	1125.5	1188.2	1263.0	1271.7	1299.6	1290.9
30°	1523.2	1504.5	1449.2	1360.5	1304.8	1301.7	1359.6	1443.1	1453.1	1479.7	1453.1
32.5°	1814.7	1796.9	1736.8	1627.6	1531.0	1483.2	1523.2	1615.9	1621.1	1638.1	1598.9
35°	2101.4	2083.1	2023.1	1911.3	1792.5	1683.7	1675.9	1780.3	1782.1	1799.9	1741.6
37.5°	2389.9	2374.6	2310.7	2201.0	2084.0	1933.9	1861.2	1936.1	1938.3	1955.7	1895.2
40°	2595.7	2602.2	2558.2	2473.4	2372.9	2208.9	2069.2	2101.8	2088.8	2117.9	2081.8
42.5°	2772.3	2785.3	2747.1	2704.4	2646.1	2501.7	2326.8	2321.1	2300.2	2315.9	2278.5
45°	2925.0	2935.9	2901.5	2891.5	2890.2	2788.8	2608.3	2574.3	2545.2	2542.1	2497.3
47.5°	2981.1	3002.0	3016.8	3050.3	3115.6	3072.9	2899.3	2846.7	2814.1	2790.1	2719.2
50°	3002.4	3024.6	3075.1	3172.6	3327.0	3345.3	3189.1	3129.9	3089.9	3046.4	2942.0
52.5°	2973.7	3013.3	3081.2	3245.2	3469.3	3563.7	3467.1	3415.3	3369.7	3298.7	3143.8
55°	2804.5	2844.1	2982.9	3244.4	3540.2	3716.8	3729.9	3706.8	3655.5	3543.7	3307.0
57.5°	2447.7	2506.5	2726.2	3133.8	3538.9	3848.7	3987.5	4004.0	3946.6	3786.5	3435.3
60°	1953.5	2033.1	2301.1	2888.9	3429.7	3920.0	4213.3	4295.9	4235.0	4025.7	3539.3
62.5°	1363.1	1455.3	1709.0	2505.2	3180.0	3868.7	4378.2	4530.9	4484.7	4239.8	3579.4
65°	831.4	861.0	1065.5	1971.3	2755.3	3653.8	4429.1	4657.9	4642.7	4370.8	3520.2
67.5°	553.8	578.6	637.4	1351.8	2138.8	3224.3	4307.2	4635.7	4640.1	4349.4	3303.5
70°	333.7	355.0	393.3	786.2	1386.1	2552.1	3930.0	4352.9	4378.2	4064.5	2892.8
72.5°	137.5	151.8	186.6	356.3	717.9	1619.8	3129.5	3737.3	3796.0	3417.5	2220.2
75°	77.9	85.3	109.6	178.8	311.5	754.9	1895.6	2653.1	2739.7	2355.5	1335.7
77.5°	51.8	55.3	70.9	115.7	175.3	257.6	810.1	1382.2	1547.6	1286.5	578.2
80°	34.8	37.9	48.7	77.4	114.0	110.5	258.0	512.1	630.0	442.0	141.0
82.5°	23.5	23.9	34.8	50.9	72.2	53.5	76.1	159.2	200.1	127.9	53.5
85°	13.5	13.1	25.7	29.6	32.2	22.2	23.1	47.9	62.7	53.9	30.5
87.5°	1.7	2.6	10.0	7.8	4.4	4.8	4.8	8.3	12.2	13.1	6.5
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°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	755.7	755.3	754.0	752.7	749.6	747.9	748.8	747.9	747.5	747.9	749.6
5°	761.4	760.1	756.6	752.2	746.2	738.8	734.0	727.0	720.5	716.6	717.4
7.5°	776.6	775.3	770.5	758.3	738.8	707.9	679.6	654.8	636.1	625.2	625.6
10°	801.0	798.8	791.4	764.4	713.1	645.7	589.5	543.0	512.5	498.2	496.9
12.5°	829.7	827.1	814.0	758.8	664.4	559.1	481.6	429.9	401.6	389.0	387.7
15°	863.6	860.1	834.5	731.8	593.4	463.4	392.4	353.7	335.4	324.1	324.6
17.5°	905.8	899.7	849.7	691.3	516.4	390.3	337.6	308.5	292.4	281.5	280.6
20°	960.6	950.6	861.9	643.0	445.5	344.1	300.6	276.3	264.1	254.5	252.8
22.5°	1037.2	1022.9	876.7	590.8	395.5	312.4	273.2	255.4	245.4	234.5	232.8
25°	1132.1	1115.1	894.9	542.5	361.1	285.0	253.2	238.4	226.7	214.1	212.8
27.5°	1264.8	1234.3	916.7	502.9	331.5	261.5	234.9	218.4	204.9	194.5	192.3
30°	1412.7	1362.7	935.8	479.0	304.6	239.7	211.0	194.5	181.9	174.5	173.2
32.5°	1552.8	1484.9	948.5	468.6	280.2	214.9	184.9	167.1	157.5	155.3	156.6
35°	1685.0	1595.4	947.2	458.6	258.4	190.1	159.2	141.0	133.6	134.9	134.9
37.5°	1837.3	1713.3	938.0	442.9	240.6	167.5	137.0	121.0	114.4	114.9	116.6
40°	2014.4	1849.5	932.4	413.3	221.0	146.6	118.8	105.7	100.9	99.2	98.8
42.5°	2203.2	1981.3	933.2	379.8	196.7	127.9	106.2	95.3	90.9	89.6	89.2
45°	2392.9	2107.1	934.5	345.0	171.0	113.6	97.0	87.9	85.3	83.5	83.5
47.5°	2571.3	2214.1	910.2	307.6	145.7	102.7	89.6	83.5	81.4	79.2	79.2
50°	2737.5	2285.4	851.4	264.1	125.7	94.0	84.0	79.6	77.4	75.3	75.3
52.5°	2866.7	2296.8	754.4	219.3	111.8	87.4	80.5	76.6	74.0	71.8	71.4
55°	2924.1	2225.8	616.5	177.5	100.9	81.8	77.0	73.1	70.0	67.9	67.4
57.5°	2909.3	2076.6	480.8	142.7	90.5	76.1	72.7	70.0	66.6	63.1	62.7
60°	2836.7	1876.9	362.4	118.8	80.9	70.0	67.9	65.7	60.9	55.7	54.8
62.5°	2710.9	1625.9	258.4	98.3	70.5	63.1	62.2	60.5	53.5	43.9	43.1
65°	2518.6	1320.9	174.0	81.8	60.5	55.3	55.7	52.6	43.5	32.6	31.8
67.5°	2237.6	965.9	111.4	67.0	50.5	46.1	46.6	44.8	37.0	27.8	26.5
70°	1879.5	639.6	72.7	50.9	40.5	35.7	38.3	38.7	31.3	22.6	21.8
72.5°	1377.9	377.6	50.9	37.9	29.6	24.8	31.3	32.2	25.2	17.0	16.1
75°	785.3	179.3	38.3	27.4	18.3	17.4	24.4	24.4	17.4	11.3	10.4
77.5°	329.8	74.8	27.0	17.8	10.4	10.0	16.5	15.2	8.7	5.2	5.2
80°	95.3	33.5	14.4	8.7	4.4	3.9	6.5	4.8	2.2	0.9	0.9
82.5°	37.4	14.8	5.7	3.5	1.7	1.7	0.9	0.0	0.0	0.0	0.0
85°	22.2	6.1	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	1.3	0.9	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)