

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: P881696

Luminaire Tested: **NVN-SB1B-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3279 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

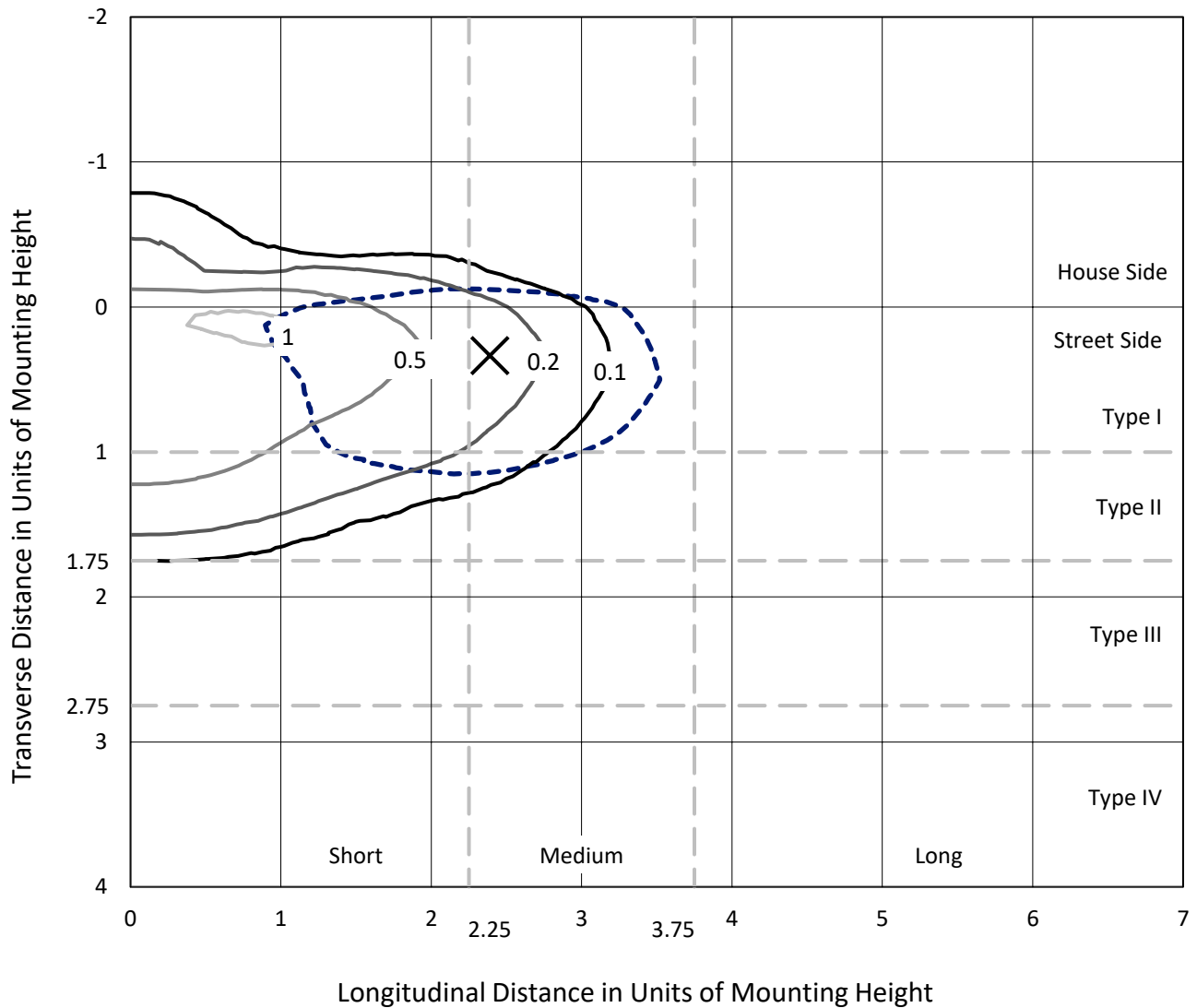
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

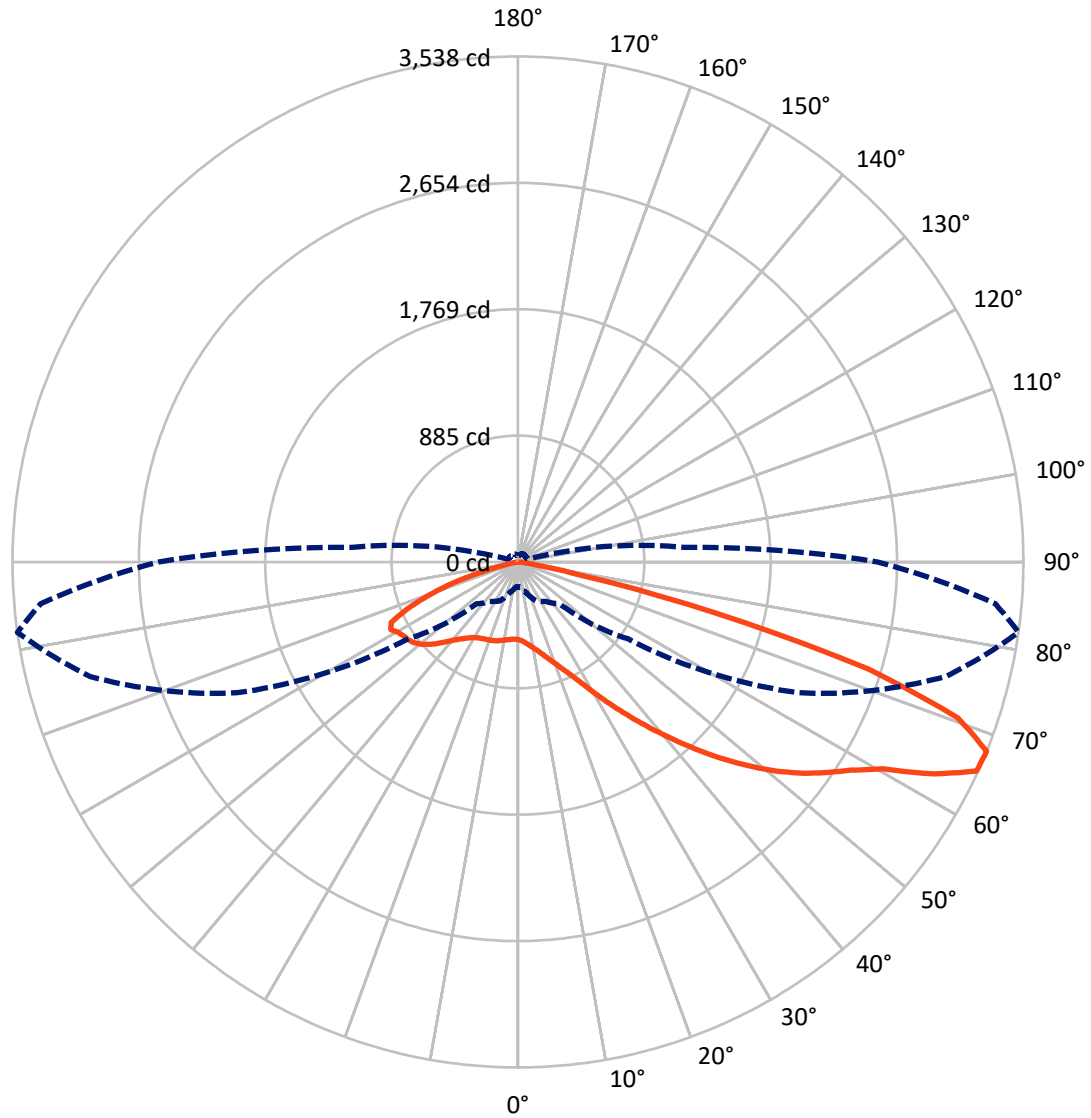
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.0	0.0	594.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2685.0	0.0	2685.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	3279.0	0.0	3279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.5
10°-20°	125.8	3.8
20°-30°	201.4	6.1
30°-40°	356.2	10.9
40°-50°	624.1	19.0
50°-60°	832.4	25.4
60°-70°	774.9	23.6
70°-80°	297.4	9.1
80°-90°	18.5	0.6
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°	3279.0	100.0
0°-180°	3279.0	100.0

Coefficient of Utilization



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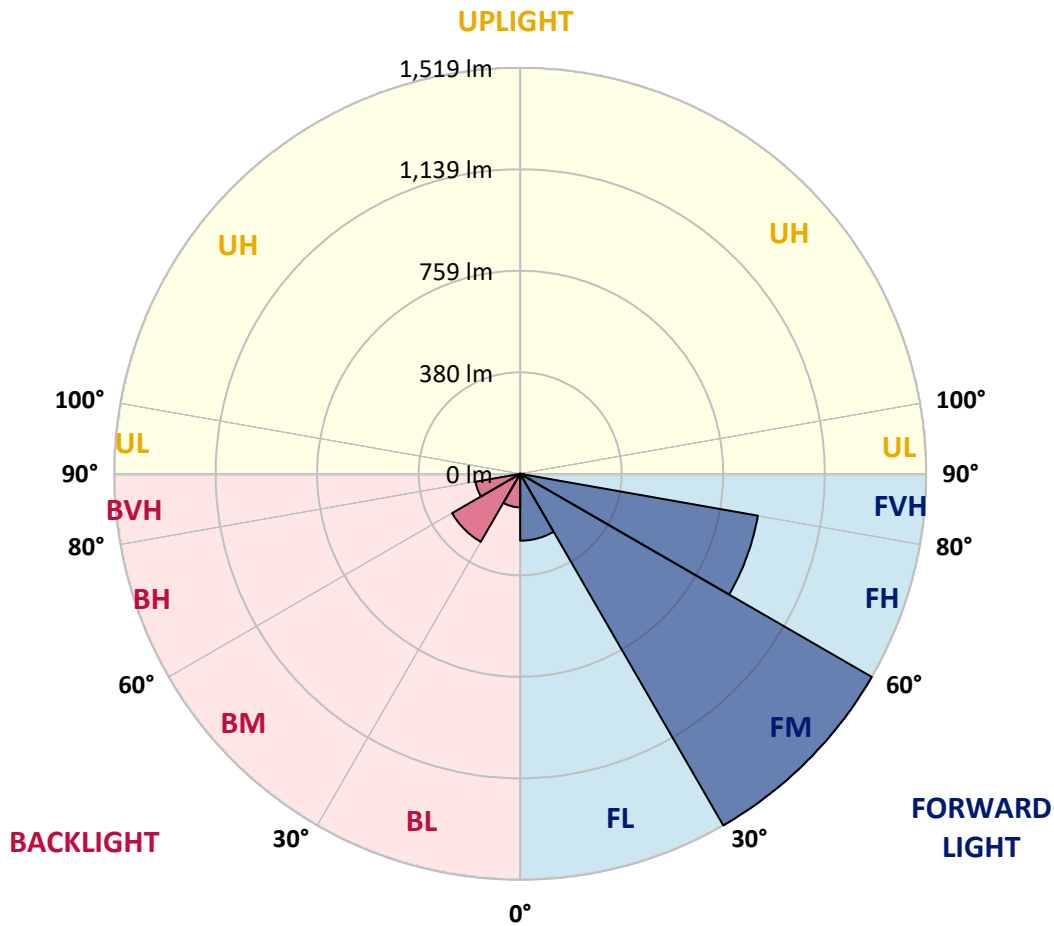
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.2	7.6			
FM (30°-60°)	1518.7	46.3			
FH (60°-80°)	902.8	27.5			G1/1800
FVH (80°-90°)	13.4	0.4			G1/100
BL (0°-30°)	125.4	3.8	B1/500		
BM (30°-60°)	294.0	9.0	B1/1000		
BH (60°-80°)	169.5	5.2	B1/500		G1/500
BVH (80°-90°)	5.0	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2
2.5°	574.1	577.5	575.6	574.6	573.0	570.6	568.7	562.8	556.7	552.7	551.2
5°	585.7	589.0	588.8	589.7	590.9	591.6	591.1	584.5	575.8	569.0	564.9
7.5°	575.8	579.6	582.6	587.4	595.6	604.4	608.6	607.2	598.2	588.8	583.8
10°	547.7	551.7	559.0	570.1	587.6	606.5	622.3	629.6	624.0	613.6	606.7
12.5°	496.2	500.3	514.7	538.7	568.0	600.8	631.0	650.6	652.1	641.7	633.6
15°	438.4	442.4	457.8	488.0	532.6	585.2	635.8	672.8	685.3	676.4	666.7
17.5°	402.5	406.1	417.6	441.9	488.4	554.1	634.1	696.4	725.0	717.9	706.4
20°	391.7	394.7	400.2	417.2	455.9	521.7	623.3	718.6	767.7	763.7	750.7
22.5°	403.2	406.1	407.7	415.3	439.6	500.5	609.6	741.3	817.3	817.8	802.0
25°	429.9	432.7	430.8	435.6	446.2	493.9	604.4	768.0	879.6	884.8	866.9
27.5°	473.8	474.0	469.6	469.3	471.0	503.8	609.8	796.5	958.2	967.9	945.7
30°	561.9	558.3	541.1	522.4	513.9	533.5	624.9	830.3	1051.0	1068.3	1040.4
32.5°	697.6	692.4	660.8	616.2	571.3	581.5	652.1	868.8	1152.1	1183.2	1149.2
35°	844.9	843.5	810.5	744.1	665.7	649.7	696.2	919.3	1262.3	1311.9	1271.5
37.5°	981.9	981.1	962.3	884.1	788.7	744.8	767.0	985.4	1380.4	1452.1	1404.4
40°	1107.0	1109.1	1090.2	1020.3	924.3	866.9	863.3	1067.1	1511.6	1604.9	1548.2
42.5°	1215.1	1217.5	1198.3	1146.6	1058.1	1001.9	981.6	1167.2	1639.8	1768.9	1701.9
45°	1288.5	1303.2	1300.3	1259.0	1195.5	1137.2	1123.7	1292.8	1785.9	1942.9	1864.3
47.5°	1309.3	1322.8	1344.0	1349.7	1311.0	1253.6	1269.6	1444.1	1933.7	2117.2	2027.7
50°	1258.1	1270.6	1314.7	1373.5	1400.4	1382.7	1411.5	1606.3	2085.1	2290.9	2188.0
52.5°	1157.0	1169.8	1225.5	1318.5	1428.3	1484.0	1553.9	1766.1	2231.7	2455.5	2339.8
55°	1010.9	1024.3	1095.9	1201.2	1375.2	1525.8	1672.6	1925.7	2366.0	2603.5	2476.7
57.5°	812.1	822.0	896.4	1043.7	1241.5	1484.2	1760.2	2099.9	2492.5	2748.9	2612.5
60°	529.3	538.0	624.4	788.7	1020.1	1345.4	1777.7	2294.2	2660.6	2938.0	2795.4
62.5°	352.0	357.9	409.1	529.8	718.4	1078.9	1675.5	2449.3	2907.1	3267.1	3109.2
65°	241.5	247.4	298.6	382.7	464.1	713.7	1381.5	2428.8	3130.4	3528.4	3341.7
67.5°	172.3	177.3	220.7	300.1	335.9	414.6	936.5	2166.3	3098.3	3538.4	3354.2
70°	123.5	126.3	162.2	233.7	267.0	249.1	520.8	1656.8	2712.8	3267.3	3098.8
72.5°	86.4	87.3	112.6	178.0	215.1	181.8	247.9	1104.6	2051.8	2564.5	2402.3
75°	58.5	59.7	75.8	130.6	172.6	138.8	131.3	592.3	1204.5	1419.5	1272.5
77.5°	35.9	36.4	48.9	89.2	129.1	105.8	84.5	251.0	466.0	457.5	390.0
80°	20.3	20.3	31.2	55.5	88.1	68.2	59.3	106.7	147.5	129.6	114.3
82.5°	11.3	11.6	22.7	34.5	58.3	40.4	32.6	49.3	63.7	56.4	49.1
85°	4.7	5.2	13.9	16.3	27.9	20.1	13.2	20.8	23.6	21.0	15.3
87.5°	0.5	0.7	4.2	3.1	3.3	4.0	1.9	4.0	3.3	3.3	2.4
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°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2
2.5°	546.8	543.2	534.2	523.9	510.2	503.6	494.6	488.4	483.3	483.7	479.0
5°	557.4	548.4	528.3	503.3	472.2	450.0	426.4	410.1	396.8	394.0	387.6
7.5°	572.0	557.9	522.7	477.6	424.9	385.0	349.4	326.5	310.2	305.0	299.8
10°	590.9	570.4	515.4	445.2	369.5	318.7	280.5	262.5	251.4	247.6	244.8
12.5°	612.9	584.8	505.7	405.8	312.3	263.5	239.1	230.2	226.6	225.5	224.7
15°	640.5	602.7	491.0	359.1	263.9	229.7	219.3	218.1	218.6	218.1	217.9
17.5°	673.3	622.3	467.2	310.9	231.4	212.5	208.7	209.6	210.8	210.6	210.1
20°	709.2	641.7	436.7	268.2	209.2	200.2	198.1	199.0	200.0	199.5	199.3
22.5°	750.0	662.4	403.0	234.9	194.3	188.9	186.5	186.7	186.7	185.8	185.3
25°	798.9	685.3	367.6	211.3	183.0	178.7	175.9	174.9	173.5	170.7	170.2
27.5°	857.2	709.7	333.6	194.8	174.0	170.0	166.7	164.3	160.8	156.0	155.6
30°	922.8	739.2	304.8	184.4	166.9	162.9	159.1	155.6	150.4	144.5	144.0
32.5°	1000.0	770.8	283.8	177.5	160.5	156.3	151.8	147.5	141.9	136.0	136.2
35°	1092.1	809.0	271.5	172.8	155.6	149.9	145.0	140.2	136.0	130.8	130.3
37.5°	1192.0	849.7	267.7	170.4	152.3	143.5	137.9	134.6	134.1	131.0	130.8
40°	1301.3	897.8	270.5	169.0	148.7	137.4	131.3	130.6	131.7	126.3	126.5
42.5°	1417.0	954.9	275.3	167.4	143.8	131.3	125.4	125.4	124.4	116.9	116.9
45°	1542.1	1020.8	280.0	163.4	137.9	125.1	120.6	119.0	115.0	107.7	107.4
47.5°	1668.1	1087.9	283.5	156.0	130.8	119.9	115.9	112.1	106.2	99.6	99.4
50°	1787.8	1148.1	279.8	145.2	122.8	115.0	110.7	105.5	99.2	94.7	94.0
52.5°	1894.8	1200.2	263.7	132.4	114.3	109.8	106.0	100.6	95.4	90.7	90.2
55°	1987.8	1242.5	235.4	120.4	106.7	105.3	101.5	94.7	87.6	83.6	83.1
57.5°	2077.0	1274.6	200.0	110.5	99.9	100.3	94.7	88.5	81.9	77.7	77.2
60°	2195.8	1317.6	164.1	101.3	92.5	94.0	87.8	83.3	75.1	69.6	68.9
62.5°	2385.6	1384.4	130.3	89.9	84.0	84.5	81.9	76.5	66.6	60.2	59.7
65°	2536.2	1359.8	102.7	77.7	74.4	75.1	75.1	69.2	58.5	51.2	50.5
67.5°	2519.2	1164.3	81.9	65.6	65.2	65.6	67.3	62.3	51.9	46.0	45.1
70°	2320.7	926.1	65.6	54.5	56.7	55.5	60.2	56.9	46.7	40.8	40.1
72.5°	1893.6	667.2	50.0	45.1	43.4	45.3	54.3	51.2	39.0	32.3	31.6
75°	1106.5	356.0	37.3	35.6	31.4	37.8	48.2	43.7	29.7	23.8	23.1
77.5°	360.3	124.2	27.4	26.2	23.4	30.5	41.1	36.8	24.3	18.9	18.2
80°	96.6	37.5	18.7	17.2	15.1	22.7	32.6	29.3	17.5	12.3	12.0
82.5°	38.7	15.8	10.9	9.7	8.3	15.6	25.7	23.6	13.0	7.8	7.8
85°	12.5	5.2	4.0	3.1	3.8	9.7	15.3	16.1	9.2	4.0	3.1
87.5°	1.7	0.7	0.7	0.9	0.7	1.7	4.7	4.5	2.6	0.5	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)