

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: P961529

Luminaire Tested: **NVN-SB2A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5838.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

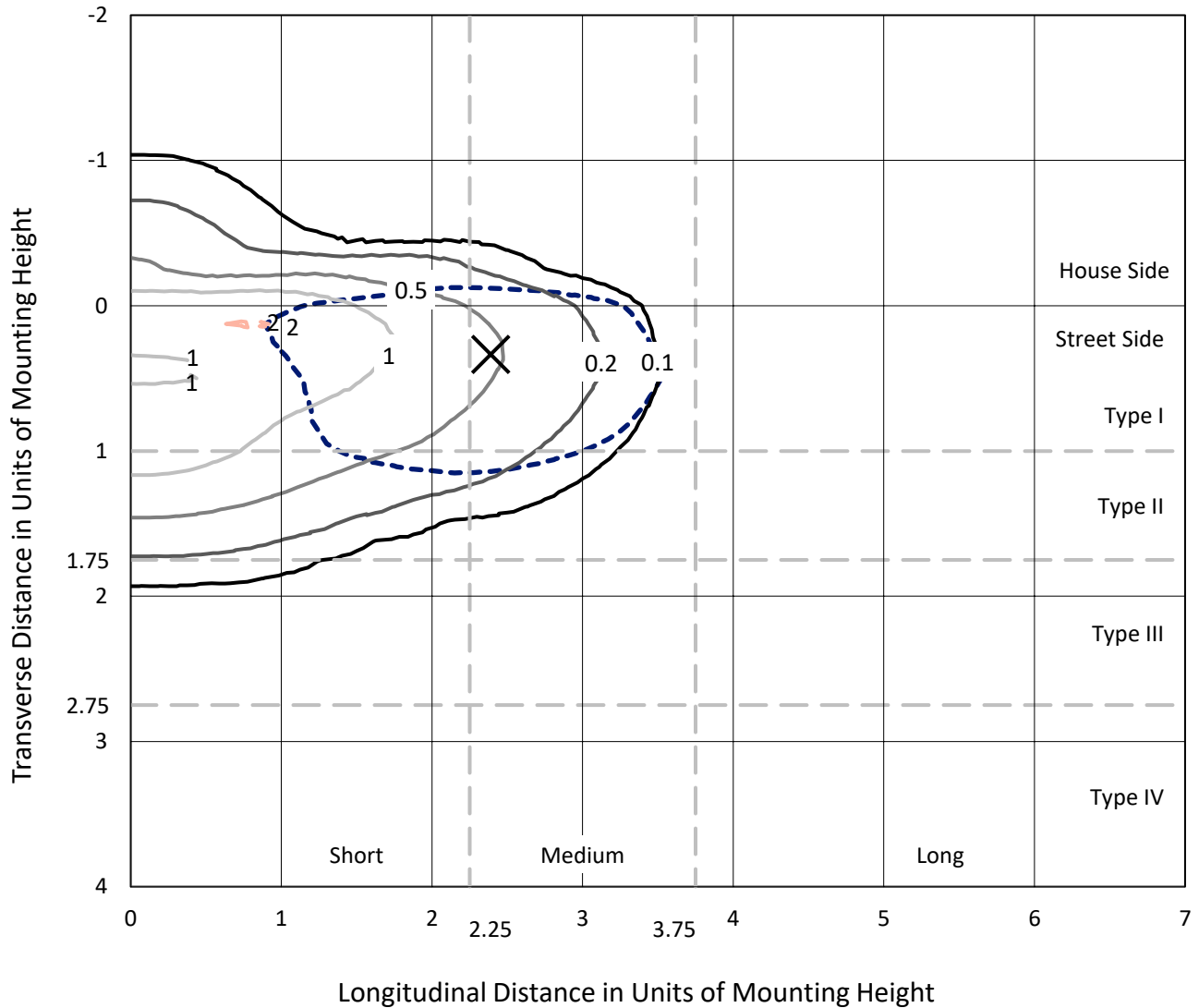
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

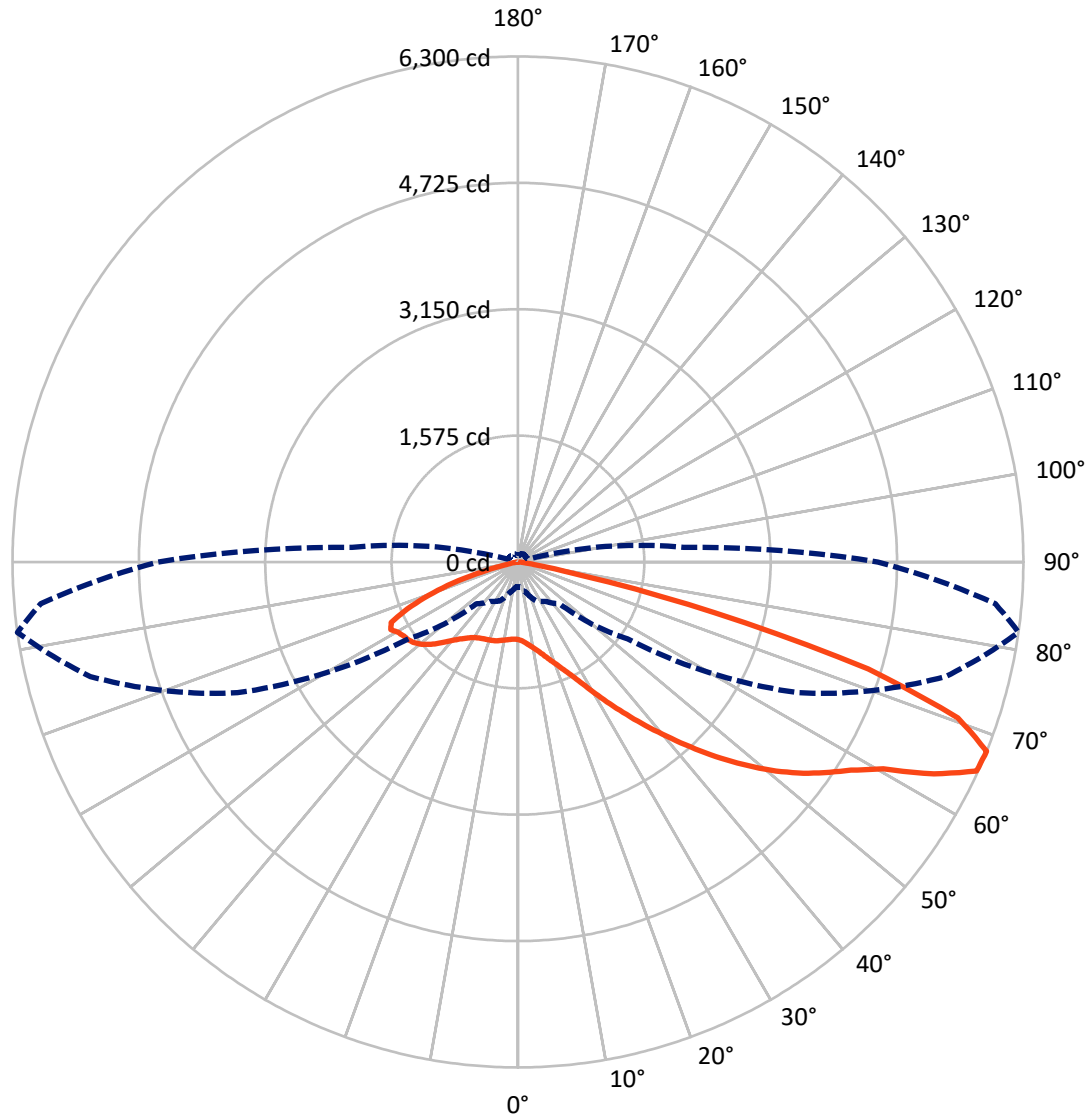
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1057.6	0.0	1057.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4780.8	0.0	4780.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	5838.4	0.0	5838.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.5
10°-20°	223.9	3.8
20°-30°	358.7	6.1
30°-40°	634.2	10.9
40°-50°	1111.2	19.0
50°-60°	1482.1	25.4
60°-70°	1379.7	23.6
70°-80°	529.5	9.1
80°-90°	32.9	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°	5838.4	100.0
0°-180°	5838.4	100.0

Coefficient of Utilization



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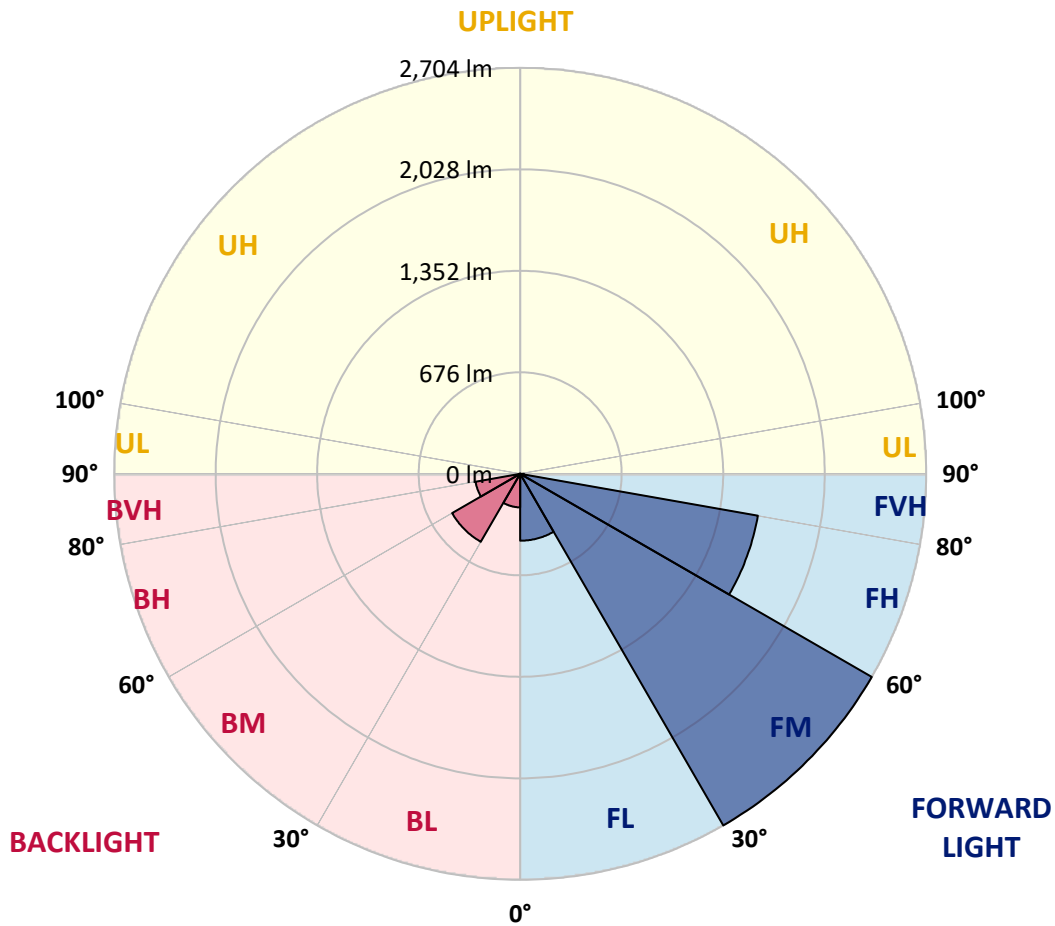
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.4	7.6			
FM (30°-60°)	2704.1	46.3			
FH (60°-80°)	1607.4	27.5			G1/1800
FVH (80°-90°)	23.9	0.4			G1/100
BL (0°-30°)	223.4	3.8	B1/500		
BM (30°-60°)	523.4	9.0	B1/1000		
BH (60°-80°)	301.9	5.2	B1/500		G1/500
BVH (80°-90°)	9.0	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°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	1022.3	1028.2	1024.8	1023.2	1020.2	1016.0	1012.6	1002.1	991.2	984.0	981.5
5°	1042.9	1048.8	1048.4	1050.0	1052.2	1053.4	1052.6	1040.8	1025.2	1013.0	1005.9
7.5°	1025.2	1032.0	1037.4	1045.8	1060.6	1076.0	1083.6	1081.2	1065.2	1048.4	1039.6
10°	975.2	982.4	995.4	1015.2	1046.2	1079.8	1108.0	1121.0	1111.0	1092.4	1080.4
12.5°	883.6	890.7	916.4	959.2	1011.4	1069.8	1123.6	1158.5	1161.0	1142.5	1128.2
15°	780.6	787.7	815.1	868.9	948.3	1042.0	1132.0	1198.0	1220.3	1204.3	1187.1
17.5°	716.7	723.0	743.6	786.9	869.7	986.6	1129.0	1240.0	1290.9	1278.3	1257.7
20°	697.4	702.8	712.5	742.7	811.7	929.0	1109.8	1279.5	1366.9	1359.9	1336.7
22.5°	717.9	723.0	725.9	739.4	782.7	891.1	1085.4	1319.9	1455.3	1456.1	1427.9
25°	765.5	770.5	767.1	775.5	794.5	879.3	1076.0	1367.4	1566.2	1575.4	1543.5
27.5°	843.7	844.1	836.1	835.7	838.6	897.0	1085.8	1418.3	1706.2	1723.4	1684.0
30°	1000.4	994.1	963.4	930.2	915.1	950.0	1112.6	1478.4	1871.4	1902.1	1852.5
32.5°	1242.1	1232.9	1176.6	1097.2	1017.2	1035.4	1161.0	1546.9	2051.3	2106.8	2046.3
35°	1504.4	1501.9	1443.1	1324.9	1185.4	1156.8	1239.6	1636.8	2247.6	2335.9	2264.0
37.5°	1748.2	1747.0	1713.4	1574.2	1404.4	1326.2	1365.7	1754.5	2457.7	2585.6	2500.7
40°	1971.0	1974.8	1941.1	1816.7	1645.6	1543.5	1537.2	1899.9	2691.5	2857.5	2756.6
42.5°	2163.6	2167.8	2133.7	2041.6	1884.1	1784.0	1747.8	2078.2	2919.7	3149.7	3030.3
45°	2294.3	2320.3	2315.3	2241.8	2128.6	2024.8	2000.9	2301.8	3180.0	3459.5	3319.5
47.5°	2331.3	2355.2	2393.1	2403.1	2334.2	2232.0	2260.6	2571.3	3443.1	3769.7	3610.4
50°	2240.0	2262.3	2340.9	2445.5	2493.5	2461.9	2513.3	2860.1	3712.6	4079.1	3895.8
52.5°	2060.1	2082.8	2182.0	2347.7	2543.1	2642.3	2766.8	3144.6	3973.6	4372.0	4166.1
55°	1799.9	1823.9	1951.3	2138.8	2448.5	2716.8	2978.1	3428.8	4212.8	4635.7	4409.9
57.5°	1446.0	1463.7	1596.0	1858.3	2210.6	2642.8	3134.1	3739.0	4438.0	4894.6	4651.6
60°	942.4	958.0	1111.8	1404.4	1816.3	2395.5	3165.2	4084.9	4737.3	5231.3	4977.4
62.5°	626.8	637.2	728.5	943.3	1279.1	1921.0	2983.3	4361.2	5176.1	5817.2	5536.0
65°	430.0	440.5	531.8	681.4	826.5	1270.7	2459.9	4324.6	5573.8	6282.5	5950.0
67.5°	306.9	315.7	393.0	534.2	598.2	738.1	1667.6	3857.2	5516.7	6300.2	5972.4
70°	219.9	224.9	288.7	416.2	475.4	443.5	927.3	2950.1	4830.2	5817.6	5517.5
72.5°	153.9	155.5	200.5	316.9	382.9	323.7	441.4	1966.8	3653.3	4566.3	4277.5
75°	104.2	106.4	134.9	232.5	307.3	247.1	233.7	1054.6	2144.6	2527.5	2265.7
77.5°	63.9	64.8	87.0	158.9	229.9	188.3	150.5	446.8	829.7	814.7	694.4
80°	36.2	36.2	55.5	98.8	156.8	121.5	105.5	190.0	262.7	230.7	203.5
82.5°	20.2	20.6	40.4	61.4	103.8	71.9	58.0	87.8	113.5	100.4	87.4
85°	8.4	9.2	24.8	29.0	49.6	35.8	23.6	37.0	42.0	37.4	27.4
87.5°	0.8	1.2	7.6	5.4	5.8	7.2	3.4	7.2	5.8	5.8	4.2
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°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	973.5	967.2	951.3	932.7	908.4	896.6	880.7	869.7	860.5	861.3	852.9
5°	992.4	976.5	940.7	896.2	840.7	801.1	759.1	730.1	706.6	701.6	690.2
7.5°	1018.5	993.3	930.7	850.3	756.7	685.6	622.1	581.4	552.4	543.0	533.8
10°	1052.2	1015.6	917.6	792.7	657.8	567.4	499.4	467.4	447.7	441.0	435.9
12.5°	1091.2	1041.2	900.4	722.6	556.2	469.1	425.8	409.8	403.5	401.4	400.2
15°	1140.4	1073.2	874.3	639.4	470.0	409.0	390.5	388.4	389.3	388.4	388.0
17.5°	1198.8	1108.0	831.9	553.6	411.9	378.3	371.6	373.3	375.4	374.9	374.1
20°	1262.7	1142.5	777.7	477.5	372.4	356.5	352.7	354.3	356.1	355.2	354.8
22.5°	1335.5	1179.5	717.5	418.2	345.9	336.3	332.1	332.5	332.5	330.8	329.9
25°	1422.5	1220.3	654.5	376.2	325.7	318.2	313.1	311.5	308.9	303.9	303.1
27.5°	1526.3	1263.6	594.0	346.8	309.8	302.7	296.7	292.5	286.3	277.9	277.1
30°	1643.2	1316.1	542.6	328.3	297.1	290.1	283.3	277.1	267.7	257.3	256.5
32.5°	1780.6	1372.5	505.2	316.1	285.9	278.3	270.3	262.7	252.7	242.1	242.5
35°	1944.5	1440.5	483.4	307.7	277.1	266.9	258.1	249.7	242.1	232.9	232.1
37.5°	2122.4	1512.8	476.7	303.5	271.1	255.5	245.5	239.6	238.7	233.3	232.9
40°	2317.0	1598.6	481.7	300.9	264.9	244.7	233.7	232.5	234.5	224.9	225.3
42.5°	2522.9	1700.3	490.2	298.1	255.9	233.7	223.2	223.2	221.5	208.1	208.1
45°	2745.8	1817.6	498.6	290.9	245.5	222.8	214.8	211.9	204.7	191.7	191.3
47.5°	2970.1	1936.9	504.8	277.9	232.9	213.5	206.4	199.7	189.1	177.4	177.0
50°	3183.3	2044.2	498.2	258.5	218.6	204.7	197.1	187.9	176.5	168.5	167.3
52.5°	3373.7	2137.0	469.6	235.9	203.5	195.5	188.7	179.1	169.8	161.4	160.6
55°	3539.3	2212.3	419.1	214.3	190.0	187.5	180.7	168.5	155.9	148.8	148.0
57.5°	3698.2	2269.5	356.1	196.7	177.8	178.7	168.5	157.6	145.9	138.3	137.5
60°	3909.7	2346.0	292.1	180.3	164.8	167.3	156.4	148.4	133.7	124.0	122.7
62.5°	4247.6	2464.9	232.1	160.1	149.6	150.5	145.9	136.2	118.5	107.2	106.4
65°	4515.8	2421.3	182.9	138.3	132.4	133.7	133.7	123.2	104.2	91.2	90.0
67.5°	4485.6	2073.2	145.9	116.8	116.0	116.8	119.8	111.0	92.5	82.0	80.3
70°	4132.1	1649.0	116.8	97.1	100.9	98.8	107.2	101.3	83.2	72.7	71.4
72.5°	3371.6	1187.9	89.1	80.3	77.4	80.7	96.7	91.2	69.4	57.6	56.4
75°	1970.2	633.9	66.4	63.4	55.9	67.2	85.8	77.8	53.0	42.4	41.2
77.5°	641.4	221.1	48.8	46.6	41.6	54.2	73.2	65.6	43.3	33.6	32.4
80°	171.9	66.8	33.2	30.6	26.9	40.4	58.0	52.2	31.1	21.8	21.4
82.5°	69.0	28.2	19.4	17.2	14.8	27.8	45.8	42.0	23.2	13.8	13.8
85°	22.2	9.2	7.2	5.4	6.8	17.2	27.4	28.6	16.4	7.2	5.4
87.5°	3.0	1.2	1.2	1.6	1.2	3.0	8.4	8.0	4.6	0.8	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)