

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: P961009

Luminaire Tested: **NVN-SB1D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7553.2 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

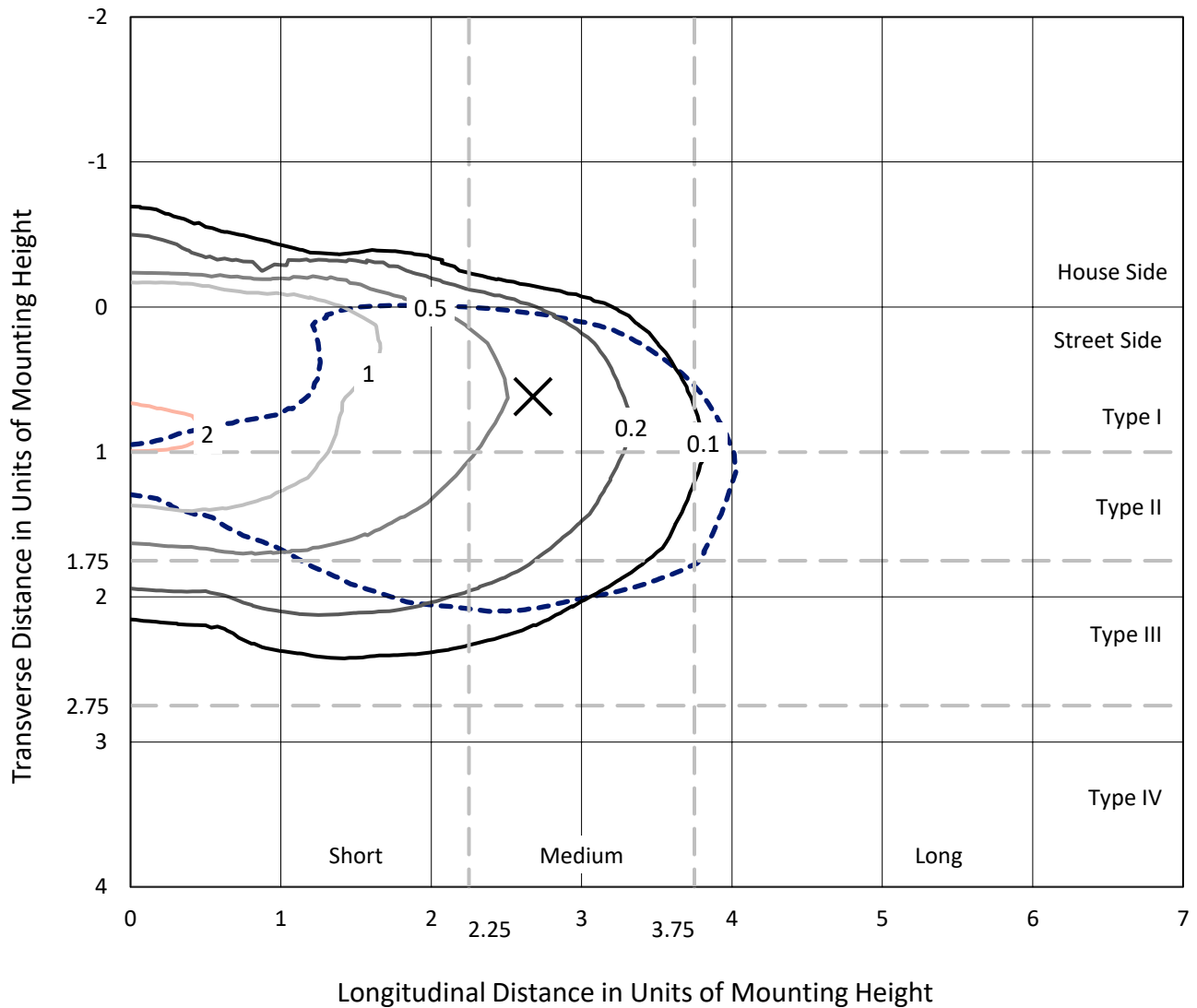
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961009
 CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

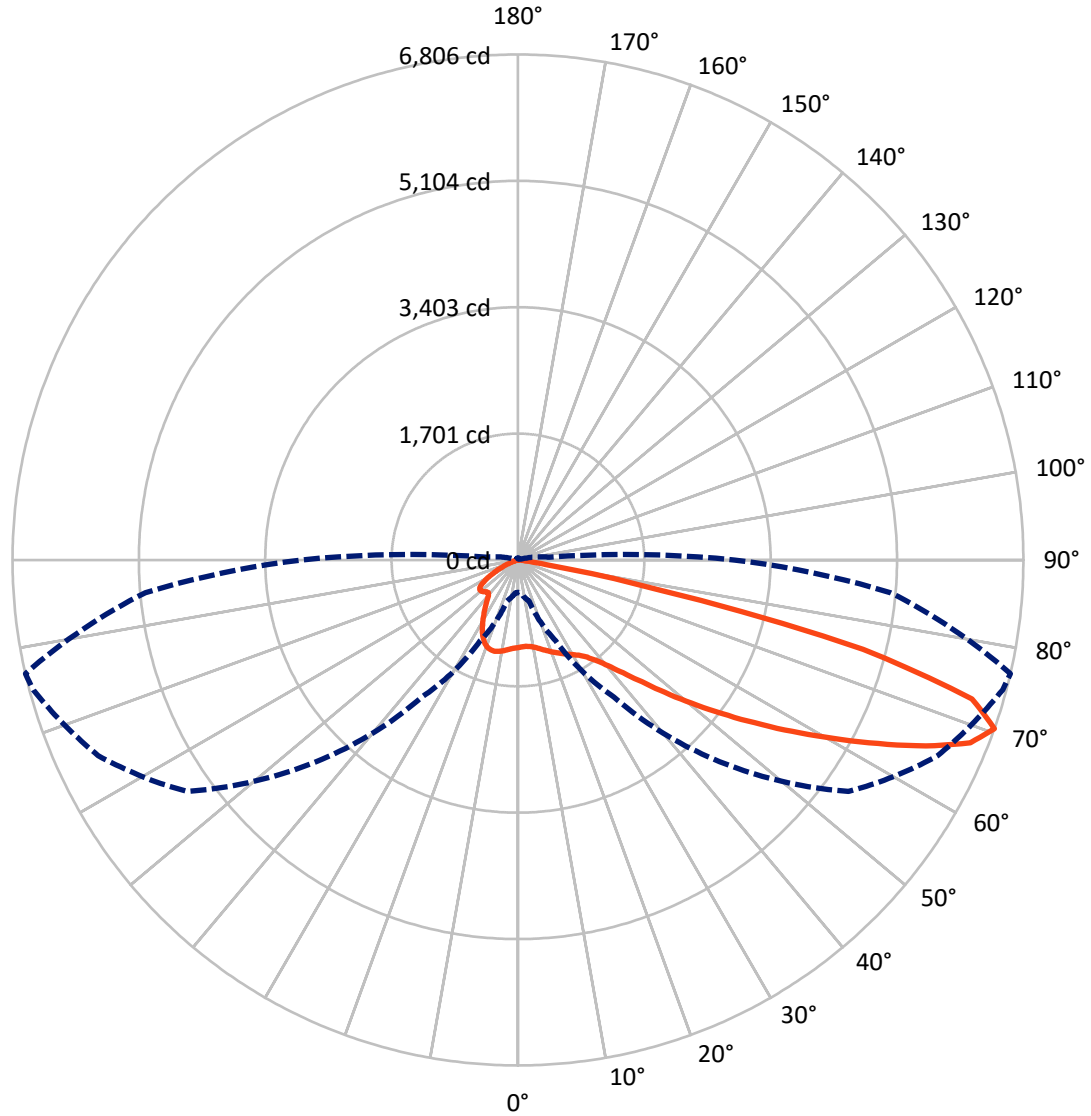
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P961009
CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P961009
 CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.2	0.0	796.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6757.0	0.0	6757.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	7553.2	0.0	7553.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.3
10°-20°	241.0	3.2
20°-30°	372.8	4.9
30°-40°	676.5	9.0
40°-50°	1277.0	16.9
50°-60°	1845.2	24.4
60°-70°	1964.1	26.0
70°-80°	1040.8	13.8
80°-90°	34.2	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°	7553.2	100.0
0°-180°	7553.2	100.0

Coefficient of Utilization



REPORT NUMBER: P961009

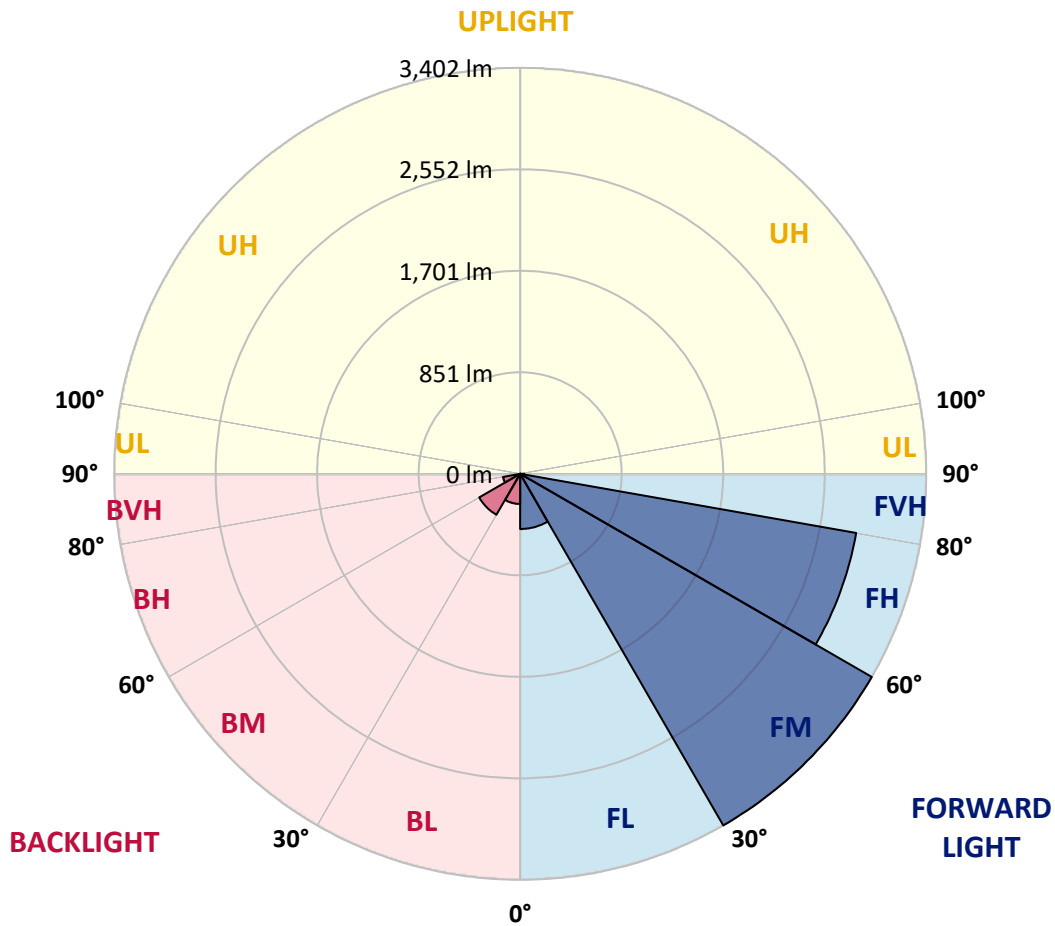
CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.4	6.1			
FM (30°-60°)	3402.3	45.0			
FH (60°-80°)	2859.0	37.9			G2/5000
FVH (80°-90°)	33.3	0.4			G1/100
BL (0°-30°)	253.0	3.3	B1/500		
BM (30°-60°)	396.4	5.2	B1/1000		
BH (60°-80°)	146.0	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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 Medium



REPORT NUMBER: P961009
 CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1106.2	1116.1	1114.7	1121.5	1123.8	1133.3	1142.9	1155.8	1170.0	1169.6	1179.2
5°	1043.7	1053.7	1056.1	1065.1	1076.6	1091.3	1110.9	1136.6	1163.4	1167.7	1186.7
7.5°	969.8	980.2	986.5	1004.5	1025.5	1056.1	1088.0	1125.7	1170.0	1176.3	1213.0
10°	895.7	905.3	913.5	939.2	972.6	1017.9	1069.9	1124.2	1183.9	1193.0	1245.0
12.5°	850.0	859.1	868.1	890.5	932.0	987.4	1058.0	1131.0	1206.8	1219.6	1288.3
15°	833.7	841.9	849.0	869.1	907.7	970.7	1055.5	1144.8	1235.8	1253.1	1340.8
17.5°	836.2	840.5	845.2	860.5	898.2	963.1	1059.8	1168.6	1270.2	1285.5	1393.3
20°	850.0	852.4	852.9	863.4	896.8	962.1	1068.5	1191.6	1302.7	1323.2	1445.2
22.5°	867.7	868.6	867.7	874.8	905.8	969.2	1079.9	1219.2	1339.0	1358.0	1497.7
25°	950.2	932.0	909.2	895.3	921.1	983.1	1097.1	1256.3	1378.5	1397.1	1548.8
27.5°	1206.3	1154.4	1072.3	980.2	952.5	1003.1	1120.9	1294.1	1418.6	1435.3	1603.6
30°	1622.3	1554.0	1414.7	1207.2	1053.7	1045.1	1151.9	1331.8	1461.0	1479.2	1662.3
32.5°	2039.1	2022.4	1861.7	1574.5	1281.1	1138.6	1203.5	1382.8	1517.3	1531.7	1741.5
35°	2460.8	2426.9	2295.3	2011.5	1631.8	1328.9	1289.3	1449.6	1591.2	1607.5	1856.9
37.5°	2783.7	2763.2	2681.6	2447.9	2047.7	1622.7	1436.2	1553.1	1698.5	1716.7	2004.8
40°	3069.0	3059.4	3031.7	2877.7	2512.8	2007.2	1664.7	1713.4	1847.4	1868.9	2186.0
42.5°	3293.1	3315.6	3331.4	3288.4	2992.2	2446.0	1971.9	1938.5	2054.9	2076.9	2417.0
45°	3522.6	3530.2	3593.6	3655.7	3468.2	2904.8	2318.1	2202.3	2312.9	2340.1	2693.6
47.5°	3670.0	3700.5	3812.1	3921.3	3868.3	3360.0	2690.2	2513.7	2612.0	2663.1	3003.7
50°	3681.0	3738.7	3892.2	4082.6	4159.9	3793.0	3094.7	2868.7	2973.1	3029.4	3334.6
52.5°	3498.2	3587.9	3825.9	4104.5	4317.2	4159.9	3513.1	3223.5	3357.5	3431.0	3678.1
55°	2682.1	2799.5	3576.4	3985.3	4323.4	4437.9	3920.4	3593.1	3785.8	3868.9	4049.2
57.5°	2336.8	2395.9	2811.9	3778.3	4208.4	4550.0	4288.6	3945.2	4251.9	4354.9	4399.7
60°	1944.2	2021.9	2358.2	3439.6	4052.5	4560.9	4613.9	4399.3	4757.0	4873.0	4721.3
62.5°	1321.2	1405.7	1740.0	2857.7	3839.3	4555.7	4880.5	4866.7	5318.4	5443.0	4993.6
65°	818.6	871.5	1091.8	2333.4	3541.2	4561.5	5159.6	5434.3	5910.9	6037.2	5204.4
67.5°	646.8	671.2	786.1	1791.6	3027.4	4432.7	5438.1	5968.1	6468.5	6568.6	5268.8
70°	434.5	449.4	571.9	1201.1	2252.3	3838.3	5432.9	6236.2	6755.6	6805.7	5034.2
72.5°	229.0	240.4	334.4	556.2	1360.4	2728.3	4579.6	5915.7	6469.9	6394.6	4303.0
75°	114.5	133.6	225.1	282.4	581.0	1521.6	2843.9	4664.1	5092.3	4800.4	2760.8
77.5°	86.8	105.0	186.0	186.0	202.2	512.3	1204.4	2543.7	2346.3	1953.8	810.4
80°	55.4	71.5	162.7	140.7	84.5	130.2	313.9	712.6	498.5	379.2	147.4
82.5°	32.4	46.7	135.5	93.0	47.3	48.2	88.8	151.7	129.3	100.7	45.3
85°	12.9	30.5	93.0	36.7	18.6	11.9	26.8	32.4	26.8	20.0	11.5
87.5°	0.0	7.2	16.2	0.0	1.4	0.9	1.9	2.4	2.4	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961009
 CATALOG NUMBER: NVN-SB1D-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1183.4	1184.4	1187.3	1187.7	1181.0	1172.4	1169.1	1167.7	1161.9	1161.4	1162.5
5°	1197.7	1202.0	1197.7	1185.3	1155.8	1114.3	1082.8	1057.0	1033.6	1026.4	1022.2
7.5°	1226.3	1230.6	1217.8	1169.1	1094.7	1012.2	937.8	885.3	838.0	820.4	813.2
10°	1267.4	1273.0	1232.6	1134.3	1002.7	870.0	744.2	655.4	586.2	558.1	546.1
12.5°	1318.9	1321.2	1240.7	1081.4	882.9	693.5	515.2	420.2	358.6	335.8	328.6
15°	1375.7	1372.3	1241.6	1009.3	719.8	490.4	336.3	276.1	251.3	243.7	243.7
17.5°	1435.3	1421.5	1222.5	905.3	540.9	335.3	249.5	235.1	230.8	229.0	228.5
20°	1493.9	1462.9	1187.7	769.4	388.3	250.4	226.5	222.3	219.9	218.9	218.0
22.5°	1547.3	1494.4	1128.1	611.5	281.9	221.3	214.1	210.3	206.0	204.2	203.7
25°	1599.3	1512.5	1044.2	464.1	225.6	207.0	201.3	194.1	188.4	186.0	185.1
27.5°	1649.9	1524.0	939.2	343.5	201.3	193.6	183.2	173.1	168.8	167.9	167.0
30°	1703.9	1527.8	819.9	256.1	186.5	176.9	161.7	150.3	147.9	148.3	148.3
32.5°	1769.7	1533.5	699.8	209.9	174.1	156.9	138.8	126.9	124.9	126.9	126.4
35°	1848.4	1545.0	583.8	193.2	163.2	136.4	116.8	106.8	105.0	106.4	105.9
37.5°	1955.2	1563.5	475.6	189.8	154.1	119.2	98.3	90.2	90.2	90.6	90.2
40°	2097.4	1613.1	378.7	187.5	149.3	106.4	83.0	79.6	81.1	82.0	82.0
42.5°	2270.5	1718.6	313.3	184.6	144.0	100.7	75.3	73.9	76.4	77.3	77.3
45°	2464.6	1852.2	290.5	179.8	139.3	104.4	72.1	70.1	73.0	73.5	73.9
47.5°	2665.4	1982.9	287.6	174.6	134.5	110.2	71.0	66.7	70.1	70.6	71.0
50°	2868.7	2068.2	290.5	166.5	126.9	110.2	71.5	63.4	66.3	67.8	68.2
52.5°	3073.3	2107.3	288.5	148.8	113.6	103.5	71.5	60.6	63.4	64.4	64.4
55°	3271.7	2099.7	259.5	122.6	96.4	91.5	69.6	58.2	60.1	60.6	60.6
57.5°	3428.6	1993.3	205.6	95.4	78.2	76.4	63.4	55.4	56.8	56.3	56.3
60°	3510.6	1759.6	146.9	73.5	61.5	60.1	55.8	51.6	52.5	50.1	49.6
62.5°	3511.6	1450.5	98.3	58.2	49.1	47.7	47.7	46.2	45.3	40.6	39.2
65°	3436.7	1107.6	65.4	46.2	39.6	37.2	40.1	39.6	36.3	29.6	28.6
67.5°	3266.9	726.0	49.6	36.3	30.5	29.1	32.0	33.4	31.0	24.8	24.3
70°	2917.8	422.6	41.0	28.2	22.9	21.4	25.7	28.6	25.7	20.0	19.1
72.5°	2423.6	228.0	33.4	21.0	15.8	14.3	20.5	23.4	20.5	14.8	14.3
75°	1572.7	122.1	25.7	13.8	8.1	9.0	15.3	17.2	14.3	9.5	8.6
77.5°	528.0	53.9	16.2	6.7	3.8	3.8	9.0	10.5	6.7	3.4	2.9
80°	117.8	22.4	6.7	2.9	1.4	1.4	1.9	1.9	0.9	0.0	0.0
82.5°	38.6	9.0	2.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.5	0.0	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)