

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: P959431

Luminaire Tested: **NVN-SB1A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

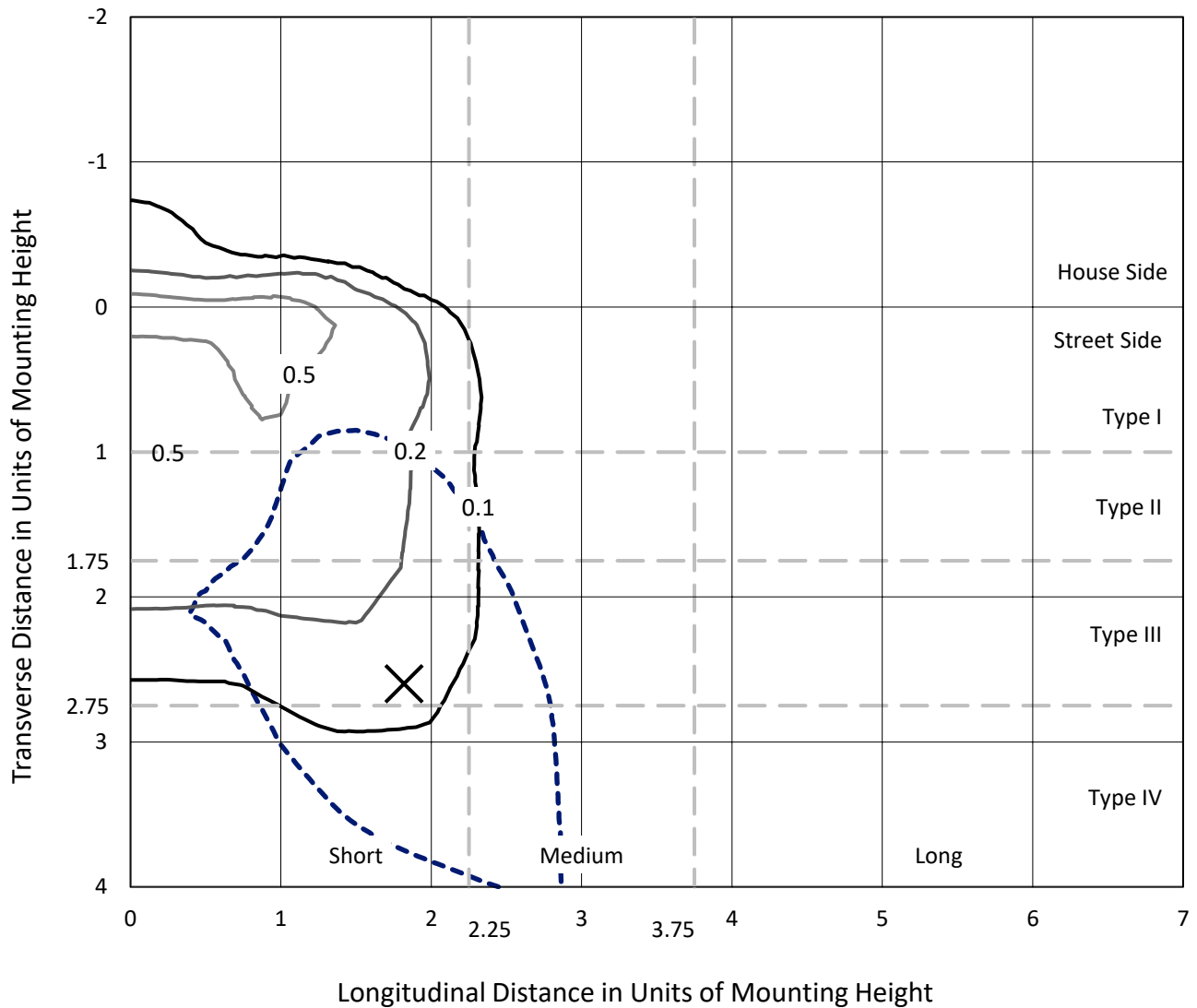
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

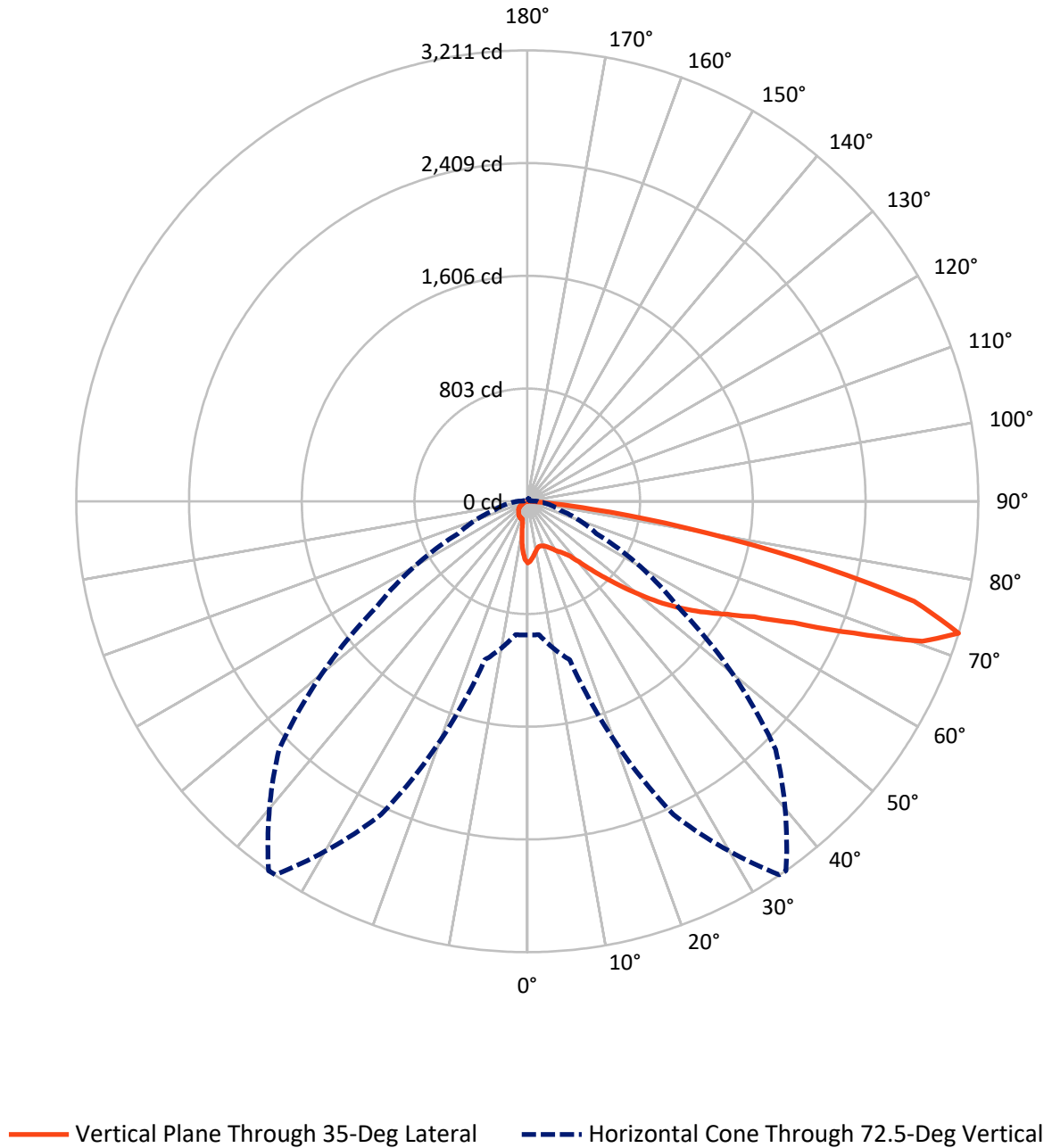
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	340.8	0.0	340.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2687.1	0.0	2687.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	3027.8	0.0	3027.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.2
10°-20°	84.4	2.8
20°-30°	137.0	4.5
30°-40°	228.6	7.6
40°-50°	432.6	14.3
50°-60°	687.4	22.7
60°-70°	850.4	28.1
70°-80°	528.6	17.5
80°-90°	42.7	1.4
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°	3027.8	100.0
0°-180°	3027.8	100.0

Coefficient of Utilization



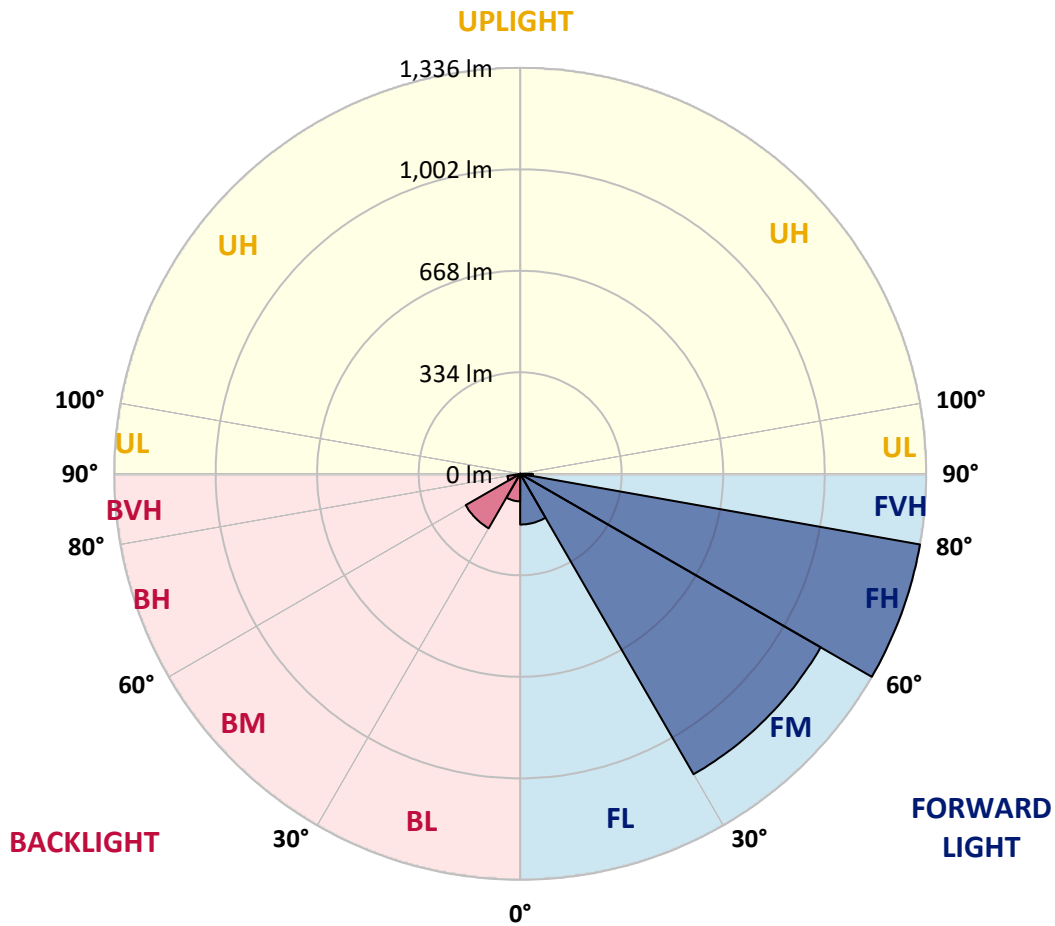
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.9	5.5			
FM (30°-60°)	1141.8	37.7			
FH (60°-80°)	1336.2	44.1			G1/1800
FVH (80°-90°)	42.1	1.4			G1/100
BL (0°-30°)	90.5	3.0	B0/110		
BM (30°-60°)	206.9	6.8	B0/220		
BH (60°-80°)	42.8	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	419.3	422.8	423.5	424.7	424.7	426.0	428.1	431.3	436.4	439.1	440.9
5°	386.5	389.1	392.5	395.1	400.3	400.9	409.6	418.0	429.8	438.6	444.8
7.5°	353.4	356.5	361.0	367.4	374.0	376.1	389.1	403.3	422.0	438.6	449.1
10°	330.2	330.4	334.4	340.8	351.5	353.8	369.8	390.0	413.3	435.9	453.0
12.5°	317.0	318.6	320.4	325.2	335.5	337.0	354.1	377.8	404.7	434.4	457.7
15°	317.0	318.2	319.3	321.6	329.9	331.3	346.3	370.0	400.3	435.1	465.2
17.5°	320.4	322.2	321.2	324.1	332.8	333.6	347.0	367.9	400.1	439.3	476.7
20°	328.3	329.6	327.9	329.6	338.4	340.1	353.8	372.1	403.7	446.6	491.2
22.5°	341.0	341.6	337.4	338.8	347.7	349.8	365.8	384.1	412.9	458.4	510.4
25°	357.0	358.3	351.9	353.4	361.8	364.5	382.9	402.0	427.3	474.6	535.2
27.5°	375.4	376.1	370.5	370.3	381.2	384.9	403.5	424.1	446.6	495.0	566.2
30°	396.5	398.4	393.1	392.3	406.0	409.1	427.5	451.5	475.0	525.6	610.3
32.5°	413.1	414.6	411.5	413.8	427.7	430.2	456.5	490.1	519.6	569.1	670.5
35°	437.1	438.0	430.8	434.8	450.8	457.0	496.3	544.2	575.7	623.6	749.0
37.5°	523.8	523.8	493.6	473.9	489.2	494.8	550.6	612.3	644.9	696.9	848.0
40°	643.8	641.9	597.7	557.3	555.3	566.2	628.1	698.2	734.3	784.7	959.3
42.5°	771.8	768.7	708.6	668.7	662.0	665.8	717.5	804.0	840.8	891.9	1079.1
45°	885.4	884.6	829.5	775.8	763.8	775.8	829.1	927.8	954.2	1007.9	1198.7
47.5°	980.6	980.6	940.4	905.4	899.2	906.3	980.2	1065.2	1062.7	1131.5	1315.2
50°	1090.2	1089.4	1051.1	1036.1	1042.5	1052.5	1154.1	1209.8	1175.0	1252.9	1419.2
52.5°	1167.0	1172.3	1159.2	1156.8	1189.6	1206.9	1330.8	1351.4	1275.5	1368.0	1497.1
55°	1227.7	1234.0	1249.1	1266.2	1329.4	1352.0	1501.7	1485.5	1359.6	1467.8	1541.9
57.5°	1313.8	1304.9	1328.3	1362.0	1464.3	1491.6	1667.5	1612.2	1427.2	1548.8	1546.8
60°	1418.4	1419.6	1423.6	1466.3	1598.9	1634.0	1830.8	1732.0	1470.7	1598.5	1492.7
62.5°	1544.0	1545.9	1554.1	1619.6	1779.7	1812.8	2004.7	1830.1	1490.7	1584.5	1352.9
65°	1535.2	1543.6	1635.3	1859.1	2054.6	2087.2	2207.7	1898.9	1460.5	1456.7	1101.6
67.5°	1398.6	1412.3	1565.7	2145.3	2469.0	2505.4	2453.1	1912.4	1330.2	1132.8	718.6
70°	1219.3	1224.3	1408.6	2402.7	2948.9	2985.8	2672.7	1763.5	1009.4	631.8	322.0
72.5°	952.2	953.4	1169.6	2462.5	3209.4	3211.4	2500.4	1309.2	542.8	242.7	111.8
75°	680.2	673.5	783.4	1996.9	2823.6	2846.2	1874.5	614.1	207.5	114.7	55.7
77.5°	364.7	372.1	443.3	1184.3	1950.6	1989.2	1022.7	177.0	105.6	78.1	36.8
80°	112.7	118.9	181.7	542.2	1104.8	1128.1	379.1	78.7	73.7	55.7	24.2
82.5°	35.5	36.8	84.8	227.9	458.6	469.2	109.8	44.6	50.3	36.8	14.2
85°	10.2	10.5	37.7	85.0	113.4	115.6	30.9	17.3	28.8	22.9	7.3
87.5°	1.1	3.6	14.2	14.2	9.9	9.7	3.3	3.8	8.2	2.9	1.3
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°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	439.7	439.9	437.1	432.1	426.8	422.4	416.9	412.5	409.3	408.5	410.0
5°	442.8	441.3	433.1	418.2	400.5	385.2	368.1	354.5	345.6	341.8	343.2
7.5°	447.5	443.0	425.1	395.8	361.8	331.7	301.0	277.4	262.2	254.7	255.8
10°	451.5	442.6	411.7	363.4	311.5	265.8	224.5	195.9	179.9	172.4	172.6
12.5°	455.3	442.4	394.4	325.0	254.7	198.7	160.4	146.2	141.8	140.2	139.8
15°	462.4	443.0	372.7	281.1	198.1	150.2	136.2	136.0	136.8	136.4	136.2
17.5°	472.1	443.7	348.1	234.5	152.8	132.4	131.8	133.8	135.1	134.5	134.3
20°	484.7	446.4	322.0	188.4	131.3	128.0	129.6	131.3	132.4	131.3	131.1
22.5°	502.6	451.0	293.3	151.3	124.4	125.4	126.7	128.6	129.8	128.2	128.0
25°	524.3	458.4	265.2	131.6	121.2	122.3	124.2	126.5	127.8	126.3	126.0
27.5°	552.5	470.2	239.1	127.1	117.8	118.5	121.4	124.6	126.5	124.4	124.4
30°	593.3	489.4	216.8	129.1	115.8	114.3	118.3	122.9	124.9	123.1	122.9
32.5°	647.4	516.7	203.0	132.2	114.9	109.4	113.2	119.1	122.5	121.4	121.4
35°	718.4	558.2	197.7	135.8	114.3	104.2	106.9	113.4	119.1	120.2	120.2
37.5°	804.4	615.9	199.3	137.4	112.2	100.0	101.4	106.9	114.5	118.1	118.9
40°	902.3	683.1	208.1	135.8	110.1	96.6	96.8	101.0	107.6	113.0	114.7
42.5°	1003.3	761.7	224.5	130.0	108.0	93.4	92.8	95.6	100.0	103.8	105.4
45°	1099.3	842.4	240.7	122.0	105.6	90.3	88.8	89.9	90.7	92.2	93.2
47.5°	1183.2	899.2	236.1	114.7	102.3	86.7	84.0	83.6	81.0	80.8	80.6
50°	1241.1	911.6	209.6	107.4	97.4	82.7	78.5	75.8	71.2	69.0	69.2
52.5°	1259.5	862.5	171.3	100.0	89.4	77.4	71.4	67.2	61.5	59.4	59.2
55°	1235.1	766.5	136.8	91.2	78.3	70.3	63.7	58.1	53.5	51.0	51.0
57.5°	1175.4	644.3	108.2	80.8	66.5	62.3	55.7	50.1	46.1	43.7	43.3
60°	1076.5	511.6	85.6	68.4	56.8	53.7	46.8	43.3	39.7	36.8	36.2
62.5°	926.3	365.2	67.2	54.1	47.5	44.0	40.0	37.3	33.1	29.1	28.4
65°	722.8	223.4	51.9	39.7	38.1	36.4	33.9	31.5	26.4	22.4	21.7
67.5°	455.9	105.8	37.0	29.9	30.1	29.3	28.2	26.1	22.4	18.9	18.4
70°	200.8	51.2	24.4	22.9	22.4	22.4	23.3	22.7	19.1	15.8	15.1
72.5°	68.4	27.5	18.1	17.3	16.2	16.0	19.5	18.9	15.3	12.2	11.6
75°	35.7	18.4	13.3	12.4	9.7	11.8	15.6	14.7	10.9	8.0	7.3
77.5°	23.3	13.1	9.1	8.0	5.5	7.8	11.6	10.2	6.5	4.0	3.6
80°	14.7	8.6	5.3	3.8	2.7	4.2	6.3	4.4	2.5	0.9	0.6
82.5°	7.8	4.4	1.9	1.3	1.1	1.3	1.5	1.1	0.4	0.0	0.0
85°	3.1	1.5	0.6	0.4	0.2	0.0	0.4	0.2	0.0	0.0	0.0
87.5°	1.1	0.2	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)