

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: LUMARK

Report Number: P959214

Luminaire Tested: **NAV-SB1A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959214
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: LUMARK
Catalog Number: NAV-SB1A-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 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: 2877.2 lumens
Efficiency: N/A
Efficacy: 93.1 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

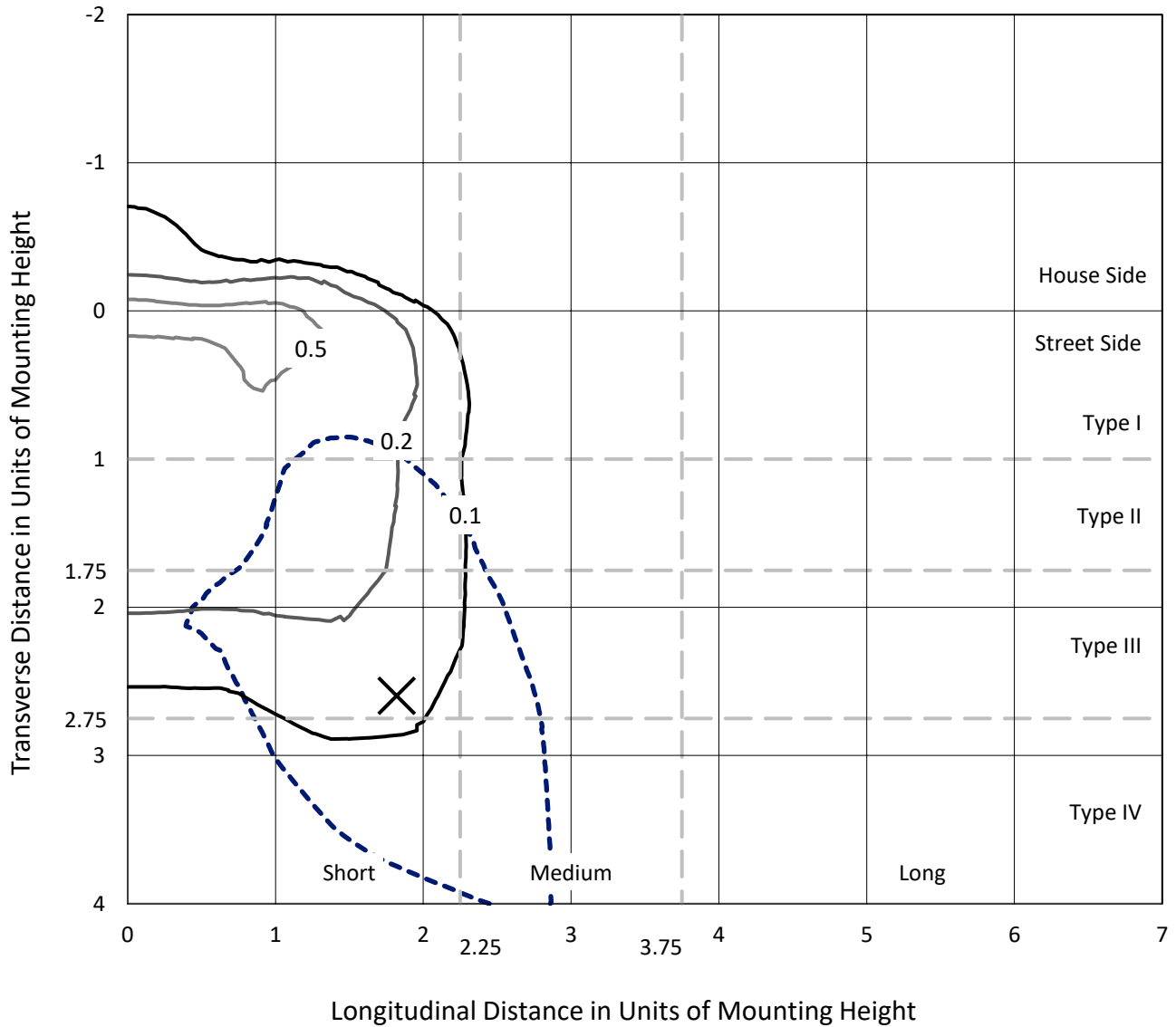
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

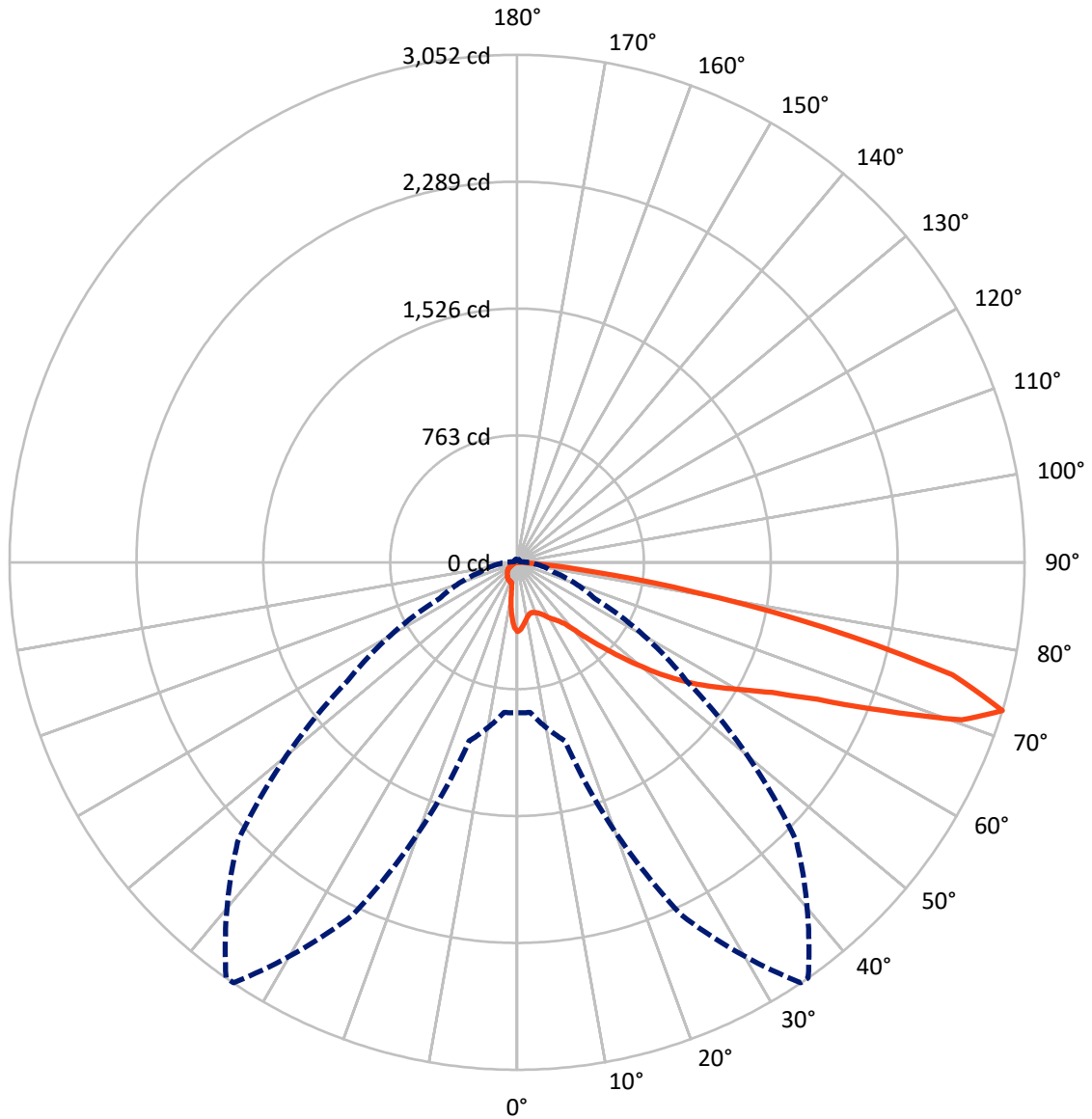
× Max cd
- - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.8	0.0	323.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2553.4	0.0	2553.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	2877.2	0.0	2877.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.2
10°-20°	80.2	2.8
20°-30°	130.2	4.5
30°-40°	217.3	7.6
40°-50°	411.1	14.3
50°-60°	653.2	22.7
60°-70°	808.1	28.1
70°-80°	502.3	17.5
80°-90°	40.6	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°	2877.2	100.0
0°-180°	2877.2	100.0

Coefficient of Utilization



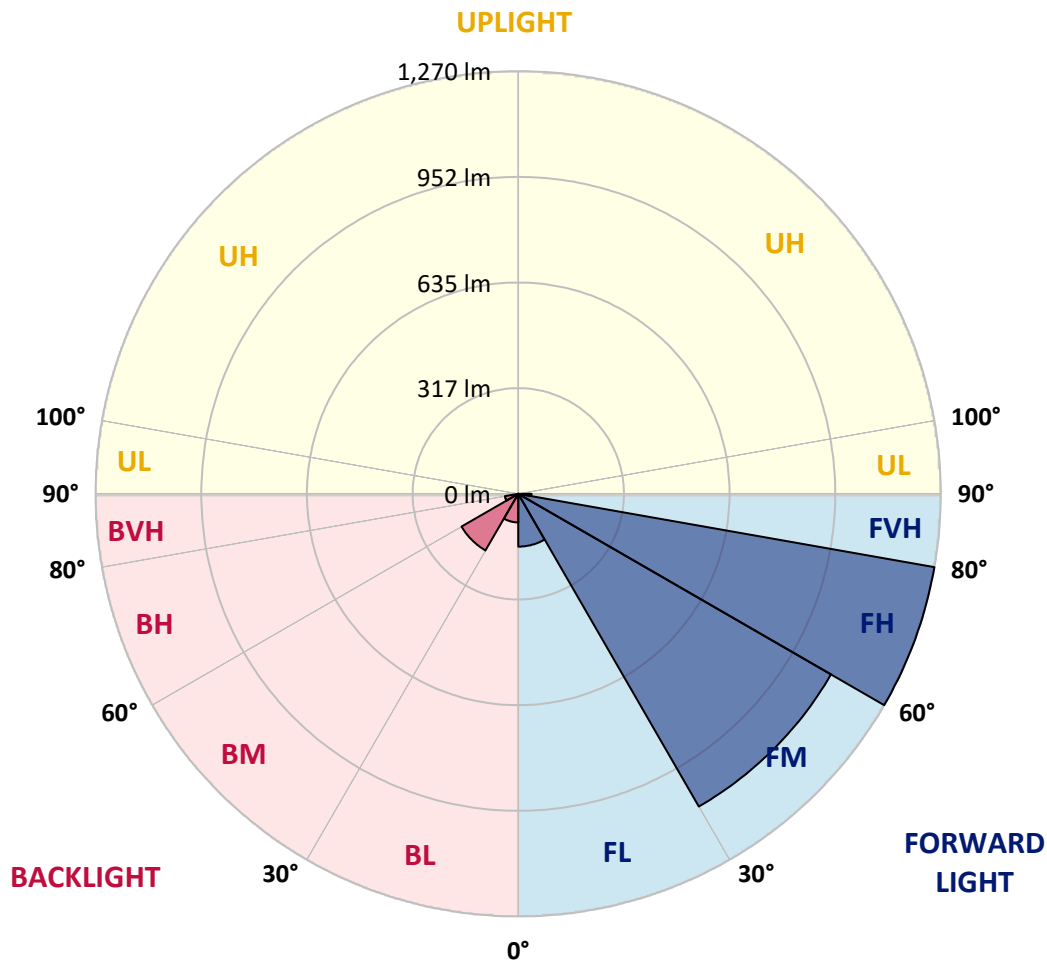
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.6	5.5			
FM	(30°-60°)	1085.0	37.7			
FH	(60°-80°)	1269.7	44.1			G1/1800
FVH	(80°-90°)	40.0	1.4			G1/100
BL	(0°-30°)	86.0	3.0	B0/110		
BM	(30°-60°)	196.6	6.8	B0/220		
BH	(60°-80°)	40.6	1.4	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	398.4	401.8	402.4	403.5	403.5	404.8	406.9	409.8	414.7	417.2	418.9
5°	367.3	369.8	372.9	375.5	380.3	381.0	389.2	397.2	408.4	416.8	422.7
7.5°	335.8	338.8	343.0	349.1	355.5	357.3	369.8	383.2	401.0	416.8	426.7
10°	313.6	314.0	317.8	323.8	333.9	336.3	351.5	370.6	392.8	414.3	430.5
12.5°	301.2	302.8	304.4	309.0	318.8	320.2	336.5	359.1	384.6	412.8	434.9
15°	301.2	302.3	303.4	305.7	313.4	314.8	329.1	351.7	380.3	413.4	442.1
17.5°	304.4	306.1	305.2	308.0	316.2	317.0	329.7	349.5	380.1	417.4	453.0
20°	312.0	313.2	311.6	313.2	321.5	323.2	336.3	353.5	383.7	424.4	466.8
22.5°	324.0	324.6	320.6	322.0	330.4	332.5	347.7	364.9	392.4	435.5	485.1
25°	339.2	340.5	334.4	335.8	343.9	346.3	363.9	382.0	406.0	450.9	508.5
27.5°	356.7	357.3	352.1	351.9	362.2	365.7	383.5	403.1	424.4	470.4	538.0
30°	376.7	378.6	373.6	372.7	385.8	388.8	406.2	429.1	451.4	499.4	579.9
32.5°	392.6	394.0	391.0	393.2	406.4	408.8	433.9	465.7	493.7	540.8	637.1
35°	415.3	416.2	409.4	413.2	428.3	434.3	471.6	517.1	547.0	592.7	711.8
37.5°	497.7	497.7	469.0	450.3	464.8	470.2	523.3	581.9	612.8	662.2	805.8
40°	611.8	609.9	568.0	529.6	527.7	538.0	596.9	663.5	697.8	745.7	911.5
42.5°	733.4	730.5	673.3	635.4	629.0	632.6	681.8	764.0	799.0	847.5	1025.4
45°	841.4	840.5	788.2	737.3	725.8	737.3	787.8	881.6	906.7	957.8	1139.1
47.5°	931.8	931.8	893.7	860.4	854.4	861.2	931.4	1012.2	1009.8	1075.2	1249.8
50°	1036.0	1035.1	998.9	984.5	990.7	1000.1	1096.6	1149.6	1116.5	1190.5	1348.6
52.5°	1108.9	1114.0	1101.6	1099.2	1130.4	1146.9	1264.4	1284.1	1212.0	1299.9	1422.6
55°	1166.7	1172.6	1186.9	1203.1	1263.2	1284.7	1427.0	1411.6	1291.9	1394.8	1465.2
57.5°	1248.4	1240.0	1262.2	1294.2	1391.4	1417.4	1584.5	1532.1	1356.2	1471.7	1469.8
60°	1347.8	1349.0	1352.8	1393.3	1519.4	1552.7	1739.6	1645.8	1397.5	1518.9	1418.4
62.5°	1467.1	1469.0	1476.8	1538.9	1691.1	1722.6	1905.0	1739.0	1416.4	1505.6	1285.6
65°	1458.9	1466.9	1553.9	1766.7	1952.4	1983.4	2097.9	1804.4	1387.8	1384.3	1046.7
67.5°	1329.0	1342.0	1487.8	2038.6	2346.2	2380.8	2331.1	1817.2	1264.0	1076.5	682.9
70°	1158.7	1163.3	1338.4	2283.2	2802.2	2837.2	2539.7	1675.8	959.2	600.4	305.9
72.5°	904.9	905.9	1111.4	2339.9	3049.7	3051.6	2376.0	1244.0	515.9	230.6	106.3
75°	646.4	640.0	744.4	1897.6	2683.0	2704.6	1781.2	583.5	197.1	109.0	52.9
77.5°	346.6	353.5	421.2	1125.3	1853.5	1890.2	971.9	168.2	100.3	74.2	35.0
80°	107.1	113.0	172.6	515.3	1049.9	1072.0	360.3	74.8	70.0	52.9	23.0
82.5°	33.7	35.0	80.6	216.5	435.7	445.9	104.3	42.3	47.9	35.0	13.5
85°	9.7	9.9	35.9	80.8	107.7	109.9	29.3	16.4	27.4	21.7	7.0
87.5°	1.0	3.4	13.5	13.5	9.5	9.2	3.2	3.6	7.8	2.8	1.2
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°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	417.9	418.1	415.3	410.7	405.6	401.4	396.2	392.0	389.0	388.2	389.6
5°	420.8	419.3	411.5	397.4	380.5	366.0	349.7	336.9	328.4	324.8	326.2
7.5°	425.2	421.0	404.0	376.1	343.9	315.2	286.1	263.5	249.2	242.0	243.0
10°	429.1	420.6	391.2	345.3	296.0	252.6	213.3	186.1	171.0	163.8	164.0
12.5°	432.6	420.4	374.8	308.8	242.0	188.9	152.4	138.9	134.7	133.2	132.8
15°	439.3	421.0	354.1	267.1	188.3	142.7	129.5	129.3	130.1	129.7	129.5
17.5°	448.6	421.7	330.8	222.8	145.2	125.9	125.3	127.1	128.4	127.7	127.5
20°	460.6	424.1	305.9	179.0	124.8	121.7	123.1	124.8	125.9	124.8	124.6
22.5°	477.5	428.6	278.7	143.8	118.3	119.1	120.3	122.3	123.3	121.9	121.7
25°	498.2	435.5	251.9	125.0	115.1	116.1	118.1	120.1	121.5	119.9	119.7
27.5°	524.9	446.7	227.2	120.8	111.9	112.5	115.3	118.5	120.1	118.3	118.3
30°	563.8	465.0	205.9	122.7	110.1	108.5	112.3	116.7	118.7	117.1	116.7
32.5°	615.2	491.0	192.9	125.7	109.2	103.9	107.5	113.2	116.3	115.3	115.3
35°	682.6	530.4	187.9	129.0	108.5	99.1	101.6	107.7	113.2	114.3	114.3
37.5°	764.4	585.3	189.3	130.5	106.7	95.1	96.4	101.6	108.8	112.1	113.0
40°	857.4	649.1	197.7	129.0	104.6	91.7	91.9	95.9	102.3	107.3	109.0
42.5°	953.4	723.8	213.3	123.5	102.7	88.8	88.1	90.8	95.1	98.7	100.1
45°	1044.6	800.5	228.8	115.9	100.3	85.8	84.4	85.4	86.2	87.7	88.6
47.5°	1124.3	854.4	224.3	109.0	97.2	82.4	79.9	79.4	77.0	76.8	76.6
50°	1179.4	866.2	199.3	102.0	92.6	78.6	74.6	72.1	67.6	65.6	65.8
52.5°	1196.8	819.7	162.8	95.1	85.0	73.6	67.9	63.9	58.4	56.5	56.3
55°	1173.6	728.4	130.1	86.6	74.4	66.8	60.5	55.2	50.8	48.5	48.5
57.5°	1116.9	612.2	102.9	76.8	63.2	59.2	52.9	47.7	43.9	41.5	41.1
60°	1022.8	486.2	81.4	64.9	54.0	51.0	44.5	41.1	37.7	35.0	34.3
62.5°	880.2	347.0	63.9	51.5	45.1	41.7	37.9	35.5	31.4	27.6	27.0
65°	686.9	212.3	49.3	37.7	36.3	34.5	32.3	29.9	25.1	21.3	20.7
67.5°	433.3	100.6	35.2	28.5	28.7	27.8	26.8	24.9	21.3	17.9	17.5
70°	190.8	48.7	23.2	21.7	21.3	21.3	22.1	21.5	18.1	15.0	14.3
72.5°	64.9	26.1	17.3	16.4	15.4	15.2	18.6	17.9	14.6	11.6	11.0
75°	33.9	17.5	12.6	11.8	9.2	11.2	14.8	13.9	10.4	7.6	7.0
77.5°	22.1	12.4	8.6	7.6	5.2	7.4	11.0	9.7	6.1	3.8	3.4
80°	13.9	8.2	5.0	3.6	2.6	4.0	5.9	4.2	2.4	0.8	0.6
82.5°	7.4	4.2	1.9	1.2	1.0	1.2	1.4	1.0	0.4	0.0	0.0
85°	3.0	1.4	0.6	0.4	0.2	0.0	0.4	0.2	0.0	0.0	0.0
87.5°	1.0	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)