

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: P959731

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959731
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: LUMARK
Catalog Number: NAV-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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483 lumens
Efficiency: N/A
Efficacy: 87.5 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

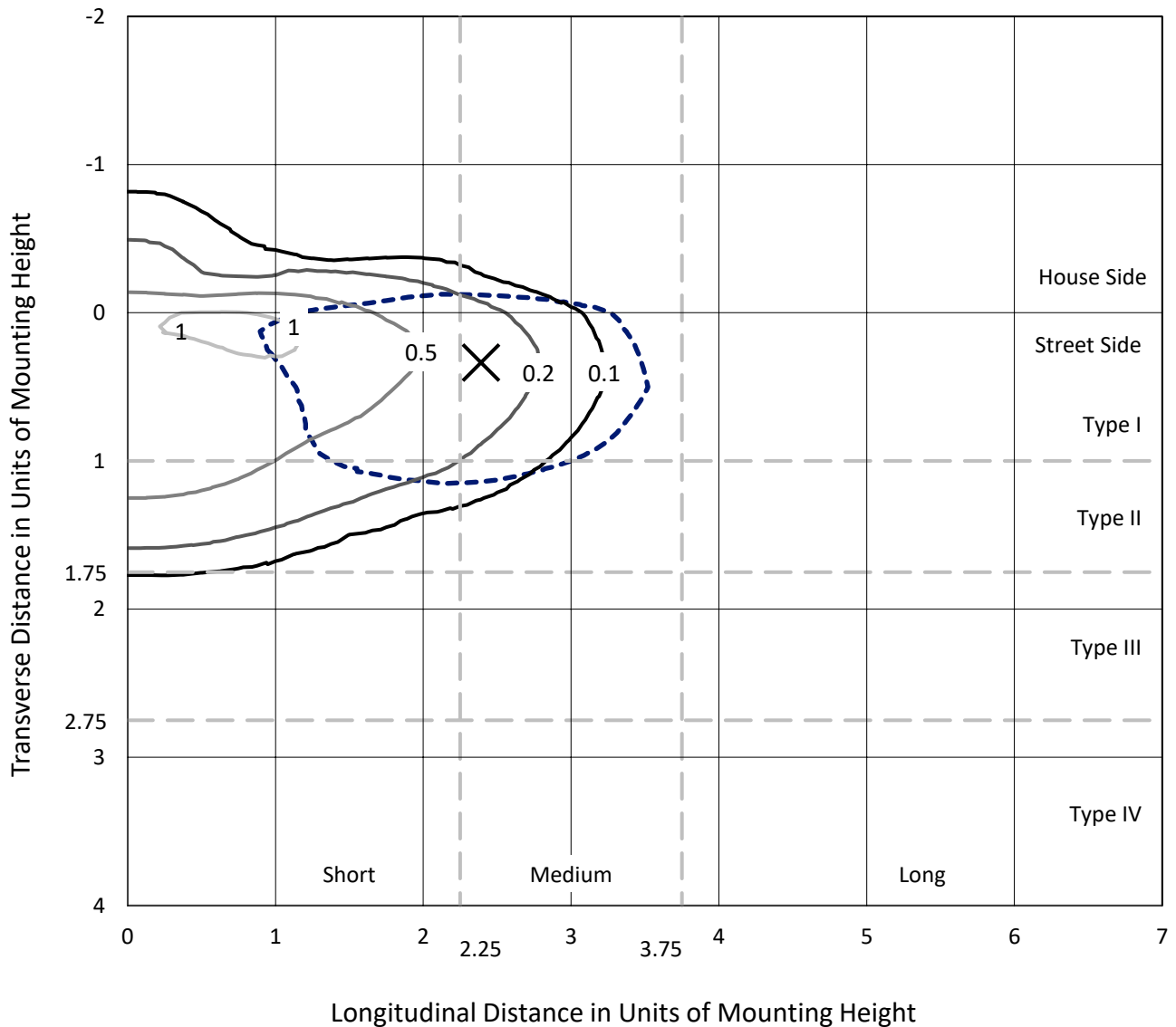
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

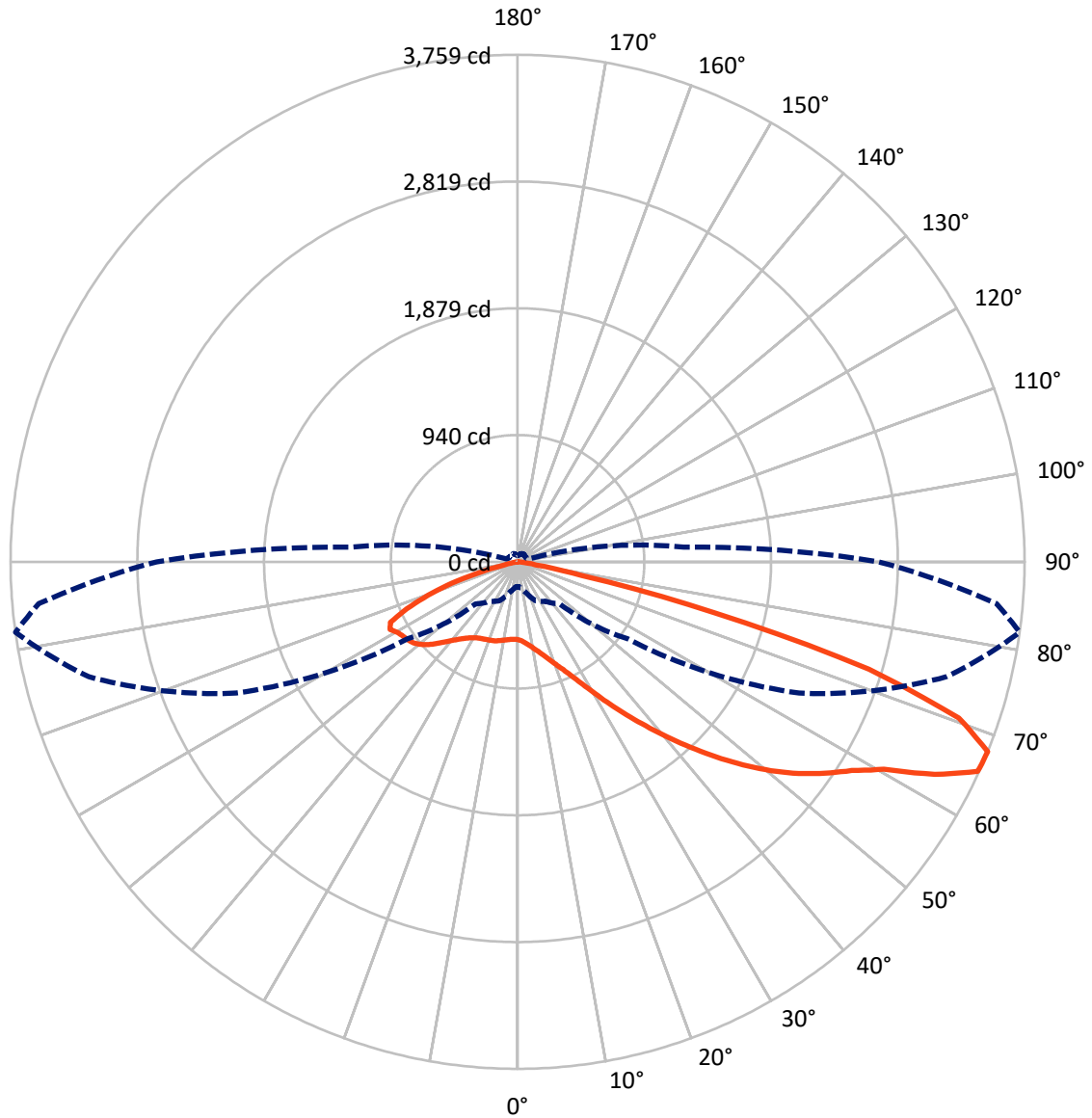
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	630.9	0.0	630.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2852.1	0.0	2852.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	3483.0	0.0	3483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.5
10°-20°	133.6	3.8
20°-30°	214.0	6.1
30°-40°	378.4	10.9
40°-50°	662.9	19.0
50°-60°	884.1	25.4
60°-70°	823.1	23.6
70°-80°	315.9	9.1
80°-90°	19.6	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°	3483.0	100.0
0°-180°	3483.0	100.0

Coefficient of Utilization



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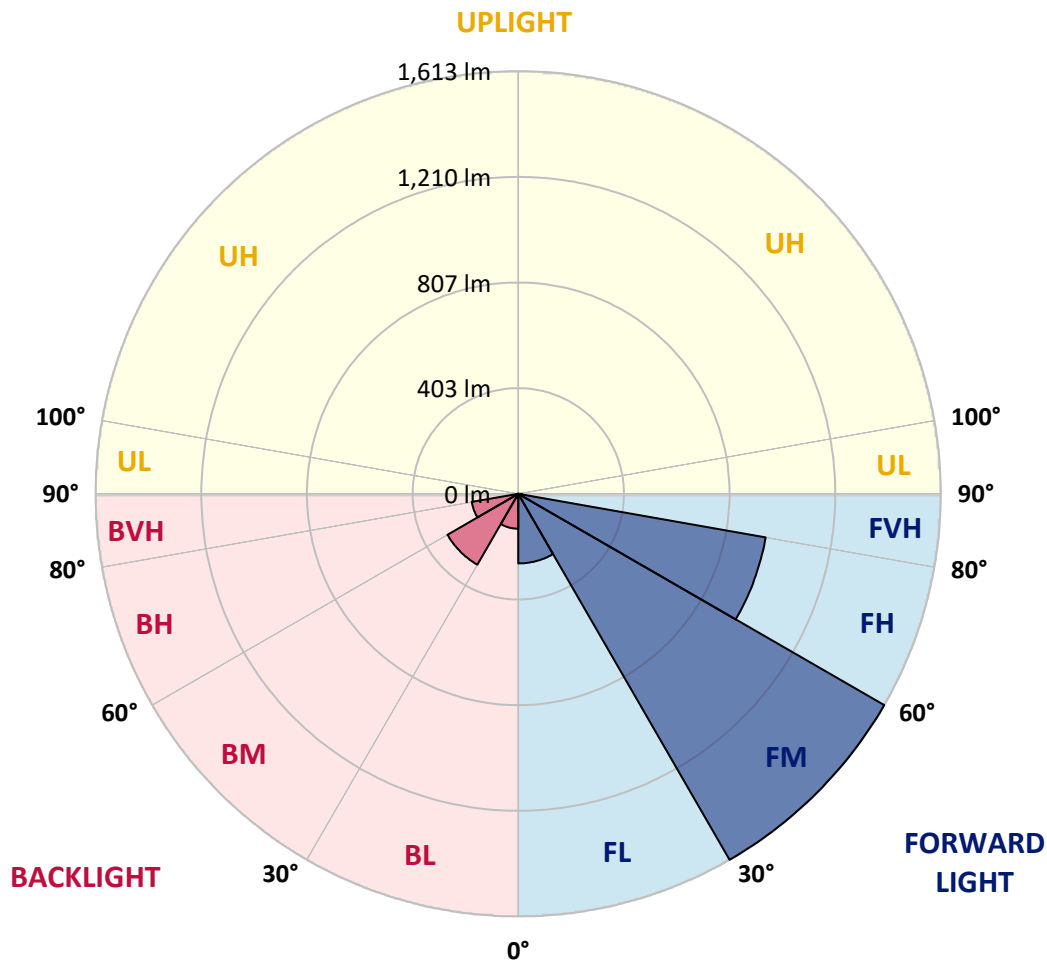
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.7	7.6			
FM (30°-60°)	1613.2	46.3			
FH (60°-80°)	958.9	27.5			G1/1800
FVH (80°-90°)	14.3	0.4			G1/100
BL (0°-30°)	133.2	3.8	B1/500		
BM (30°-60°)	312.2	9.0	B1/1000		
BH (60°-80°)	180.1	5.2	B1/500		G1/500
BVH (80°-90°)	5.4	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°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
2.5°	609.9	613.4	611.4	610.4	608.6	606.1	604.1	597.8	591.3	587.0	585.6
5°	622.2	625.7	625.5	626.4	627.7	628.4	627.9	620.8	611.6	604.3	600.0
7.5°	611.6	615.6	618.9	623.9	632.6	642.0	646.5	644.9	635.4	625.5	620.1
10°	581.8	586.0	593.8	605.6	624.1	644.2	661.0	668.8	662.8	651.7	644.4
12.5°	527.1	531.4	546.6	572.3	603.3	638.2	670.2	691.1	692.6	681.6	673.0
15°	465.7	470.0	486.3	518.3	565.7	621.7	675.3	714.6	728.0	718.4	708.2
17.5°	427.5	431.3	443.6	469.4	518.9	588.6	673.5	739.7	770.1	762.6	750.3
20°	416.0	419.3	425.1	443.1	484.2	554.2	662.0	763.3	815.5	811.2	797.4
22.5°	428.3	431.3	433.1	441.1	466.9	531.7	647.5	787.4	868.2	868.7	851.9
25°	456.6	459.6	457.7	462.7	474.0	524.6	642.0	815.7	934.4	939.8	920.8
27.5°	503.3	503.6	498.8	498.6	500.3	535.2	647.7	846.0	1017.8	1028.2	1004.6
30°	596.9	593.1	574.7	554.9	545.9	566.7	663.8	881.9	1116.4	1134.7	1105.2
32.5°	741.0	735.5	701.9	654.5	606.8	617.7	692.6	922.8	1223.7	1256.9	1220.7
35°	897.5	896.0	860.9	790.4	707.1	690.1	739.5	976.5	1340.8	1393.5	1350.6
37.5°	1042.9	1042.2	1022.1	939.1	837.8	791.2	814.8	1046.7	1466.3	1542.4	1491.8
40°	1175.9	1178.1	1158.0	1083.8	981.7	920.8	917.1	1133.4	1605.7	1704.7	1644.5
42.5°	1290.7	1293.1	1272.8	1218.0	1123.9	1064.3	1042.6	1239.7	1741.8	1878.9	1807.8
45°	1368.7	1384.3	1381.2	1337.3	1269.9	1208.0	1193.6	1373.2	1897.1	2063.7	1980.3
47.5°	1390.7	1405.1	1427.6	1433.6	1392.5	1331.6	1348.6	1533.9	2054.0	2248.8	2153.8
50°	1336.3	1349.6	1396.5	1459.0	1487.5	1468.7	1499.3	1706.2	2214.7	2433.5	2324.1
52.5°	1229.0	1242.5	1301.8	1400.6	1517.1	1576.3	1650.6	1876.0	2370.5	2608.2	2485.3
55°	1073.8	1088.0	1164.1	1275.9	1460.7	1620.7	1776.6	2045.5	2513.2	2765.4	2630.8
57.5°	862.6	873.2	952.1	1108.6	1318.8	1576.6	1869.7	2230.5	2647.6	2919.9	2775.0
60°	562.2	571.5	663.3	837.8	1083.5	1429.1	1888.3	2436.9	2826.1	3120.7	2969.3
62.5°	373.9	380.2	434.6	562.7	763.1	1145.9	1779.7	2601.7	3087.9	3470.3	3302.6
65°	256.6	262.8	317.2	406.5	493.0	758.1	1467.5	2579.8	3325.1	3747.9	3549.6
67.5°	183.1	188.3	234.4	318.7	356.8	440.3	994.8	2301.0	3291.1	3758.5	3562.8
70°	131.2	134.2	172.3	248.3	283.6	264.6	553.2	1759.8	2881.5	3470.5	3291.5
72.5°	91.7	92.8	119.6	189.1	228.5	193.1	263.3	1173.3	2179.4	2724.0	2551.7
75°	62.2	63.4	80.5	138.7	183.3	147.5	139.4	629.1	1279.4	1507.9	1351.6
77.5°	38.1	38.6	51.9	94.8	137.1	112.3	89.8	266.6	495.0	486.0	414.3
80°	21.5	21.5	33.1	58.9	93.6	72.5	62.9	113.4	156.7	137.7	121.4
82.5°	12.0	12.3	24.1	36.6	61.9	42.8	34.6	52.4	67.8	60.0	52.2
85°	5.0	5.5	14.8	17.3	29.6	21.3	14.0	22.0	25.1	22.3	16.3
87.5°	0.5	0.7	4.5	3.3	3.5	4.3	2.0	4.3	3.5	3.5	2.5
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°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
2.5°	580.8	577.0	567.4	556.5	541.9	534.8	525.3	518.9	513.3	513.8	508.8
5°	592.0	582.5	561.2	534.6	501.5	478.0	452.8	435.6	421.6	418.5	411.7
7.5°	607.6	592.6	555.1	507.3	451.4	409.0	371.2	346.8	329.5	324.0	318.5
10°	627.7	605.9	547.5	472.9	392.5	338.6	297.9	278.8	267.0	263.0	260.0
12.5°	651.0	621.2	537.1	431.0	331.8	279.8	254.0	244.5	240.8	239.4	238.7
15°	680.3	640.2	521.6	381.4	280.3	244.0	233.0	231.8	232.2	231.8	231.4
17.5°	715.1	661.0	496.3	330.3	245.8	225.7	221.7	222.6	224.0	223.7	223.1
20°	753.3	681.6	463.9	284.8	222.2	212.7	210.4	211.4	212.4	211.9	211.7
22.5°	796.6	703.7	428.0	249.5	206.3	200.6	198.1	198.3	198.3	197.3	196.8
25°	848.6	728.0	390.4	224.5	194.3	189.8	186.9	185.8	184.3	181.3	180.8
27.5°	910.5	753.8	354.3	206.8	184.8	180.5	177.0	174.6	170.8	165.7	165.2
30°	980.2	785.2	323.7	195.9	177.3	173.0	169.0	165.2	159.7	153.4	152.9
32.5°	1062.2	818.8	301.5	188.6	170.6	166.0	161.2	156.7	150.7	144.4	144.7
35°	1160.0	859.4	288.3	183.6	165.2	159.3	154.0	148.9	144.4	138.9	138.4
37.5°	1266.1	902.5	284.3	181.0	161.7	152.4	146.5	142.9	142.5	139.2	138.9
40°	1382.2	953.7	287.4	179.6	158.0	146.0	139.4	138.7	139.9	134.2	134.4
42.5°	1505.1	1014.3	292.4	177.8	152.7	139.4	133.1	133.1	132.1	124.1	124.1
45°	1637.9	1084.3	297.5	173.5	146.5	132.9	128.1	126.4	122.1	114.4	114.1
47.5°	1771.9	1155.5	301.1	165.7	138.9	127.4	123.1	119.1	112.9	105.8	105.6
50°	1899.0	1219.4	297.1	154.3	130.4	122.1	117.6	112.1	105.4	100.6	99.8
52.5°	2012.6	1274.9	280.1	140.6	121.4	116.6	112.5	106.8	101.3	96.2	95.8
55°	2111.4	1319.8	250.0	127.9	113.4	111.8	107.8	100.6	93.1	88.8	88.3
57.5°	2206.2	1353.9	212.4	117.4	106.1	106.6	100.6	94.0	87.0	82.5	82.0
60°	2332.4	1399.5	174.2	107.6	98.3	99.8	93.3	88.6	79.7	74.0	73.2
62.5°	2534.0	1470.5	138.4	95.5	89.3	89.8	87.0	81.3	70.7	64.0	63.4
65°	2693.9	1444.4	109.1	82.5	79.0	79.7	79.7	73.5	62.2	54.4	53.7
67.5°	2675.9	1236.8	87.0	69.7	69.2	69.7	71.4	66.2	55.1	48.9	47.9
70°	2465.0	983.8	69.7	57.9	60.2	58.9	64.0	60.5	49.6	43.4	42.6
72.5°	2011.4	708.7	53.2	47.9	46.1	48.2	57.7	54.4	41.4	34.3	33.6
75°	1175.4	378.1	39.7	37.8	33.3	40.1	51.1	46.4	31.6	25.3	24.6
77.5°	382.6	131.9	29.1	27.9	24.8	32.4	43.7	39.2	25.8	20.1	19.3
80°	102.6	39.9	19.8	18.3	16.1	24.1	34.6	31.1	18.6	13.0	12.8
82.5°	41.1	16.8	11.6	10.2	8.8	16.5	27.4	25.1	13.8	8.3	8.3
85°	13.3	5.5	4.3	3.3	4.0	10.2	16.3	17.0	9.7	4.3	3.3
87.5°	1.7	0.7	0.7	1.0	0.7	1.7	5.0	4.7	2.8	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)