

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: P959720

Luminaire Tested: **NAV-SB1B-722-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

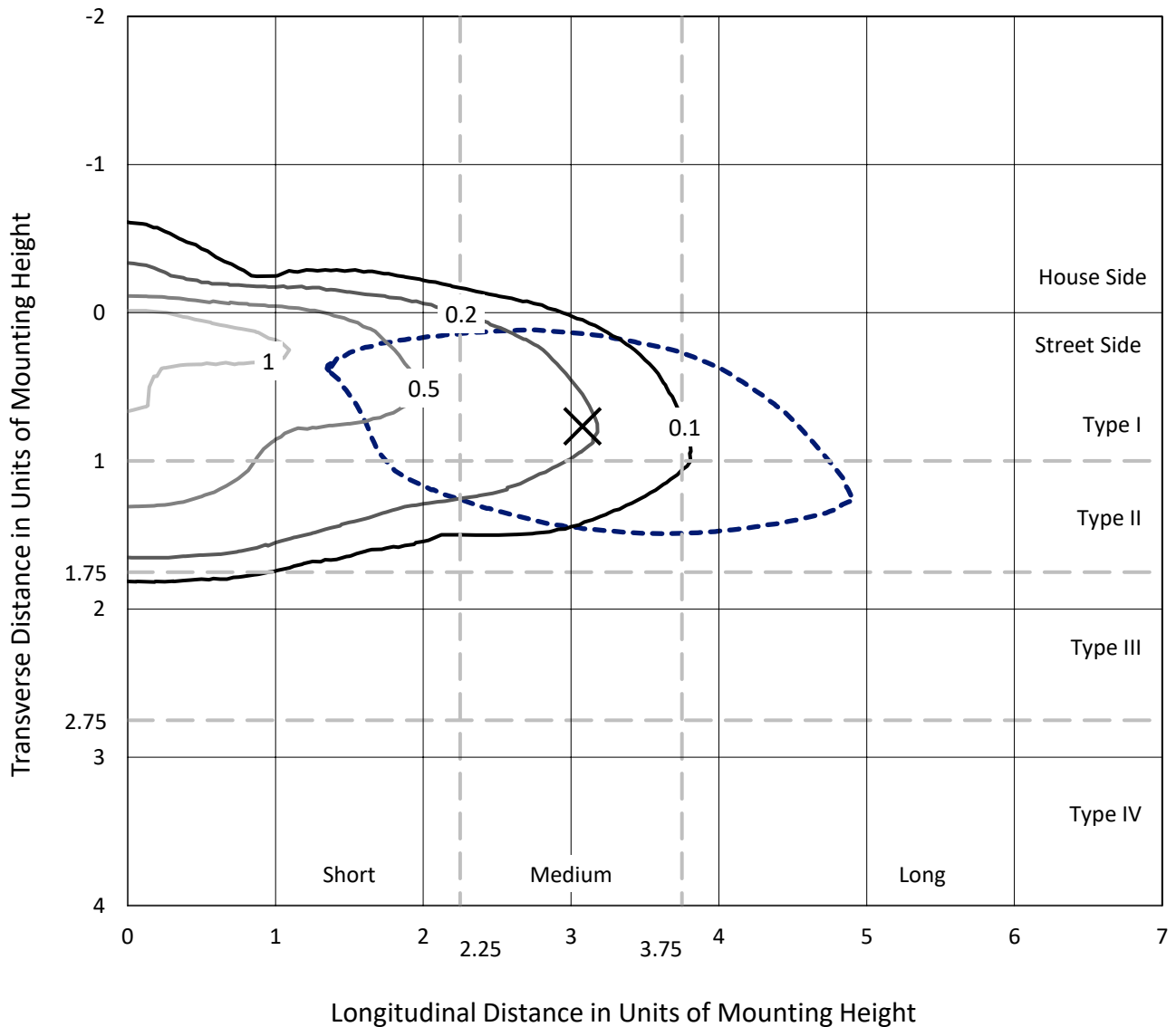
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

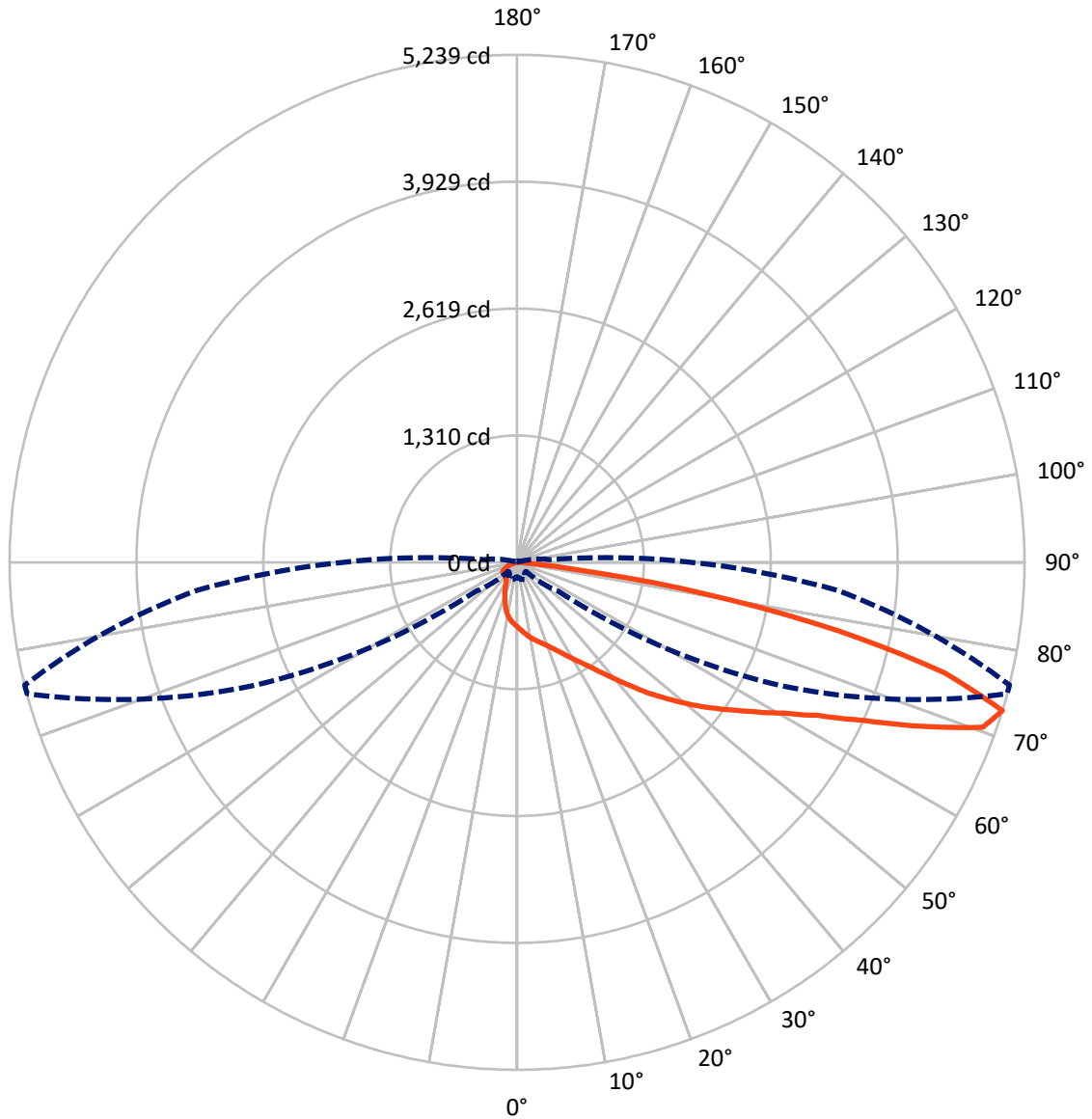
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.7	0.0	395.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3470.6	0.0	3470.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	3866.3	0.0	3866.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.6
10°-20°	162.9	4.2
20°-30°	257.9	6.7
30°-40°	399.0	10.3
40°-50°	606.0	15.7
50°-60°	835.4	21.6
60°-70°	882.6	22.8
70°-80°	605.4	15.7
80°-90°	56.4	1.5
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°	3866.3	100.0
0°-180°	3866.3	100.0

Coefficient of Utilization

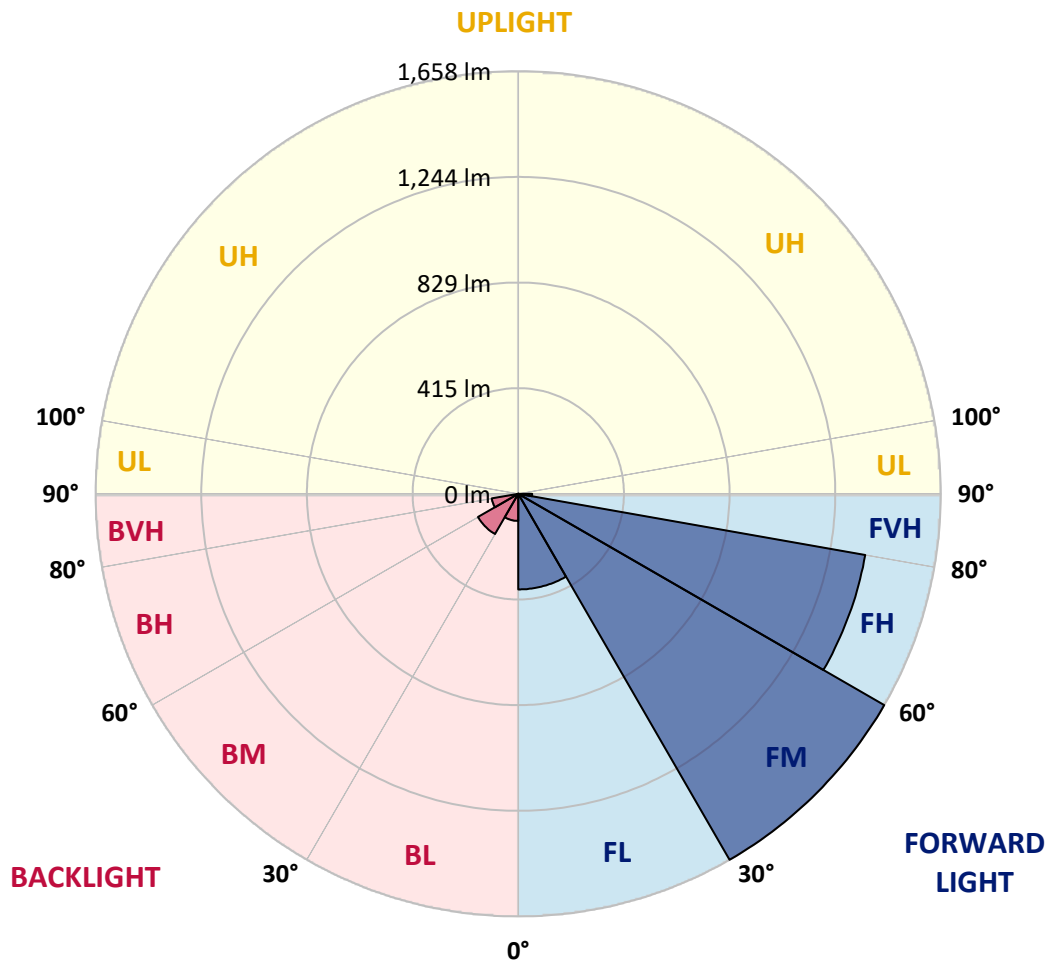


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.2	9.7			
FM (30°-60°)	1658.2	42.9			
FH (60°-80°)	1382.4	35.8			G1/1800
FVH (80°-90°)	54.8	1.4			G1/100
BL (0°-30°)	106.4	2.8	B0/110		
BM (30°-60°)	182.2	4.7	B0/220		
BH (60°-80°)	105.6	2.7	B0/110		G0/110
BVH (80°-90°)	1.5	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1
2.5°	776.7	766.4	768.4	758.2	753.4	741.9	729.8	714.0	696.5	696.5	679.4
5°	858.4	852.0	852.0	839.9	830.7	812.6	791.0	763.2	730.1	726.8	694.4
7.5°	908.7	904.7	907.1	900.2	892.6	873.8	848.2	811.8	765.0	761.0	712.3
10°	918.4	918.2	925.2	927.2	932.2	922.7	899.8	858.0	799.3	793.6	727.5
12.5°	880.6	875.8	893.1	913.4	942.0	954.8	943.0	900.2	830.7	822.7	741.9
15°	818.4	819.4	835.9	867.3	914.9	960.5	975.9	941.3	862.5	853.0	755.4
17.5°	782.8	779.0	793.2	821.3	874.0	938.5	991.2	979.6	896.4	885.6	769.2
20°	778.5	778.3	781.5	794.3	834.5	906.9	989.4	1017.0	936.2	923.7	789.0
22.5°	808.1	807.6	804.8	802.3	813.3	876.1	981.8	1052.6	983.9	970.4	817.1
25°	853.5	852.7	848.5	833.1	822.4	859.5	974.9	1085.7	1040.3	1025.3	851.3
27.5°	908.9	908.4	900.7	877.5	849.7	861.0	971.4	1119.8	1105.6	1090.7	890.6
30°	976.8	975.9	959.8	927.2	890.8	884.8	976.1	1158.1	1173.5	1162.2	936.0
32.5°	1062.1	1059.3	1038.3	989.1	938.3	916.7	985.1	1197.6	1254.0	1243.4	996.7
35°	1128.1	1123.8	1111.5	1068.2	993.1	955.8	1006.2	1244.2	1350.8	1341.5	1074.2
37.5°	1184.8	1180.5	1170.4	1134.9	1071.9	1005.7	1040.1	1306.5	1465.1	1460.6	1168.7
40°	1246.0	1238.9	1234.2	1196.1	1139.1	1077.7	1088.4	1379.1	1596.8	1597.4	1282.4
42.5°	1293.1	1290.4	1290.9	1261.6	1204.1	1163.0	1152.7	1461.1	1754.6	1759.3	1419.0
45°	1333.5	1331.3	1340.5	1320.0	1269.6	1218.9	1227.9	1554.0	1927.1	1936.9	1572.0
47.5°	1364.6	1367.1	1380.4	1367.1	1337.5	1258.3	1294.7	1654.0	2108.4	2109.8	1730.0
50°	1395.7	1396.7	1418.8	1412.2	1400.3	1308.2	1356.1	1765.9	2299.6	2301.8	1877.7
52.5°	1405.5	1403.9	1439.1	1455.1	1455.6	1369.9	1435.6	1887.7	2487.0	2494.2	2029.7
55°	1355.4	1359.6	1416.2	1481.4	1507.3	1455.1	1542.9	2042.0	2686.5	2689.6	2180.2
57.5°	1110.1	1133.6	1259.0	1410.3	1540.7	1577.3	1697.2	2222.3	2917.0	2914.3	2332.7
60°	673.6	701.7	851.7	1182.7	1431.8	1700.0	1924.3	2501.7	3168.9	3161.1	2487.0
62.5°	376.7	385.2	433.2	708.0	1089.0	1622.0	2146.4	2860.6	3506.9	3480.6	2638.7
65°	277.7	280.4	291.7	346.9	535.3	1247.5	2097.7	3289.7	3981.9	3935.1	2820.5
67.5°	241.3	244.1	255.0	262.6	239.0	655.4	1728.3	3527.7	4585.1	4523.6	3066.5
70°	203.2	204.7	222.4	227.4	171.1	249.3	1110.3	3454.2	5143.4	5099.5	3330.6
72.5°	151.5	157.5	183.4	195.4	137.1	132.4	522.6	3020.2	5238.0	5238.5	3312.8
75°	102.8	108.3	138.0	160.7	105.9	92.8	210.9	2255.2	4561.0	4561.0	2904.0
77.5°	70.2	74.7	96.0	126.2	80.3	63.7	109.4	1431.3	3272.2	3387.3	2069.9
80°	31.1	33.8	61.9	91.5	61.0	41.1	61.9	783.7	1978.8	1954.5	811.3
82.5°	15.3	17.5	39.7	57.2	39.4	25.3	32.6	372.7	641.3	609.5	126.7
85°	3.0	4.0	21.3	24.3	18.3	11.3	12.3	114.6	77.3	88.3	26.9
87.5°	0.0	0.0	6.6	4.5	2.0	2.5	2.5	10.2	6.0	7.1	7.1
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°	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1
2.5°	670.3	661.1	640.8	620.7	600.1	581.4	568.4	555.2	547.2	543.8	544.3
5°	675.7	656.8	614.2	569.6	525.4	482.3	450.0	419.6	410.1	394.2	395.2
7.5°	683.9	653.3	586.1	510.9	439.1	376.0	330.3	294.0	279.4	265.4	265.1
10°	689.4	646.8	549.0	448.4	351.4	280.4	236.8	210.4	200.9	192.4	192.1
12.5°	691.7	634.8	506.4	378.4	273.4	213.7	187.6	175.3	172.1	169.0	169.0
15°	693.7	623.0	458.7	311.0	216.0	178.9	168.5	164.5	162.3	160.3	160.3
17.5°	695.5	607.9	404.3	252.8	182.3	164.8	159.8	155.5	153.8	151.5	151.5
20°	701.5	593.4	355.7	208.7	164.0	154.8	149.2	144.7	143.2	141.7	142.0
22.5°	712.8	581.6	308.5	178.9	153.0	144.4	137.5	132.4	131.4	130.4	129.7
25°	726.3	567.0	264.1	159.5	142.2	132.6	124.9	120.6	119.6	119.9	119.4
27.5°	743.6	551.0	226.0	147.2	132.6	121.7	112.9	109.6	110.1	111.1	110.6
30°	762.7	536.2	196.1	138.7	124.1	111.8	103.1	100.9	102.6	104.0	103.6
32.5°	791.0	523.2	175.3	131.9	116.6	103.8	96.8	94.1	96.0	98.1	97.6
35°	829.6	516.6	163.5	126.2	110.1	97.6	90.5	88.6	90.5	91.0	90.8
37.5°	877.1	516.2	158.5	121.4	104.0	92.2	84.6	83.7	85.3	85.5	85.0
40°	938.3	519.4	154.8	117.9	97.8	86.3	79.0	78.2	78.7	80.5	80.3
42.5°	1015.8	533.0	149.4	113.4	91.0	80.3	74.5	72.8	72.5	74.5	74.2
45°	1113.0	562.8	142.5	106.1	85.0	75.2	69.5	67.4	66.7	67.2	68.0
47.5°	1219.1	599.4	135.4	99.3	80.8	71.2	65.5	62.9	61.7	61.7	61.7
50°	1321.9	640.8	130.7	92.2	77.8	67.4	61.2	58.7	56.7	56.2	56.0
52.5°	1423.8	681.4	126.9	85.3	74.2	62.7	57.2	54.4	52.2	51.1	50.6
55°	1516.6	720.1	120.3	78.5	69.7	57.7	53.2	50.4	47.7	45.9	45.1
57.5°	1605.7	752.1	108.3	71.4	62.7	52.9	48.9	45.9	42.6	40.4	39.4
60°	1686.6	768.7	93.3	64.0	55.7	47.9	44.2	41.4	37.1	33.3	32.4
62.5°	1748.3	762.2	77.0	55.5	48.4	43.4	38.6	35.9	30.9	26.3	24.6
65°	1811.5	726.5	61.4	46.4	42.4	37.4	32.4	29.6	23.8	19.1	17.8
67.5°	1893.6	650.6	48.4	38.6	36.6	29.6	25.3	23.6	19.6	15.1	14.0
70°	1946.2	505.3	37.6	31.4	30.1	21.5	19.6	19.3	15.6	11.6	10.2
72.5°	1801.7	331.3	28.8	23.8	21.5	14.0	15.1	15.1	11.3	7.8	6.8
75°	1504.1	193.8	20.8	17.0	12.3	9.0	10.2	10.2	7.1	3.8	3.0
77.5°	1074.2	103.3	13.8	10.6	6.3	4.0	5.5	5.2	2.3	0.2	0.0
80°	410.8	35.6	6.6	4.3	1.7	0.7	0.5	0.2	0.2	0.0	0.0
82.5°	62.7	9.3	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	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)