

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: P959207

Luminaire Tested: **NAV-SB1A-722-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

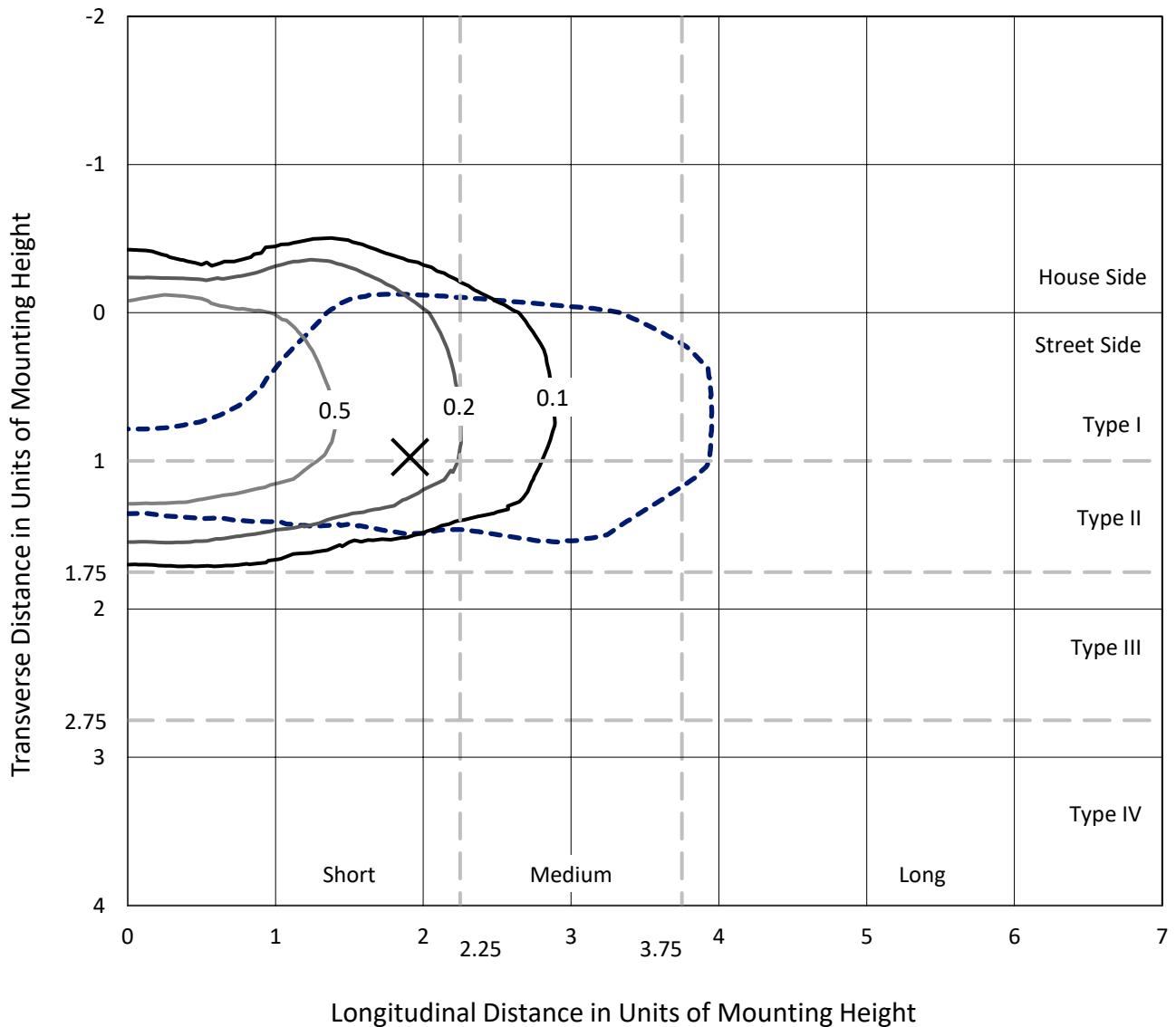
Lumens per Lamp: N/A  
Luminaire Lumens: 2903.8 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

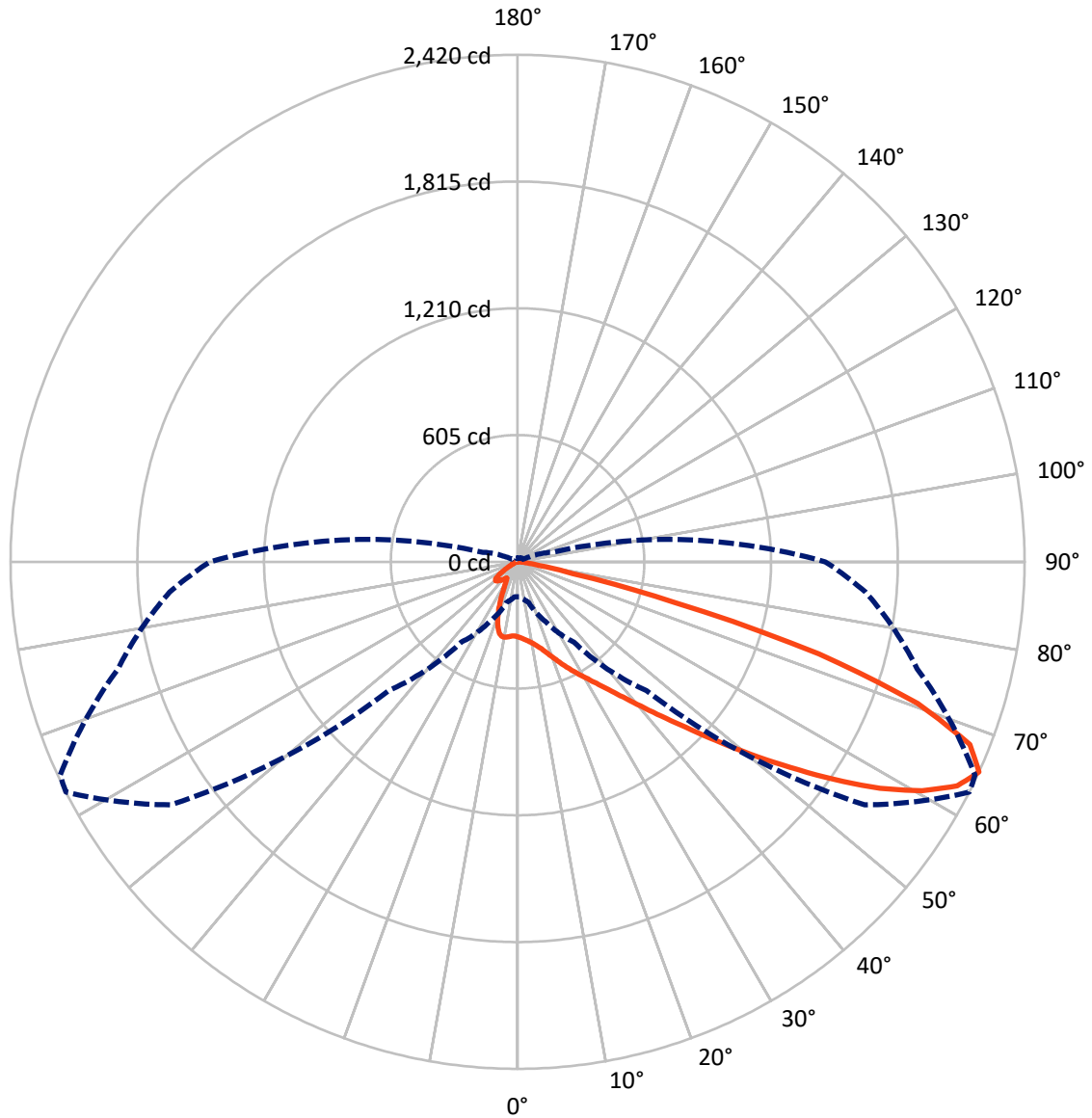
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	426.8	0.0	426.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	2477.0	0.0	2477.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	2903.8	0.0	2903.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.8	1.2
10°-20°	93.7	3.2
20°-30°	163.1	5.6
30°-40°	294.0	10.1
40°-50°	583.2	20.1
50°-60°	794.4	27.4
60°-70°	634.1	21.8
70°-80°	286.9	9.9
80°-90°	20.6	0.7
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°	2903.8	100.0
0°-180°	2903.8	100.0

**Coefficient of Utilization**

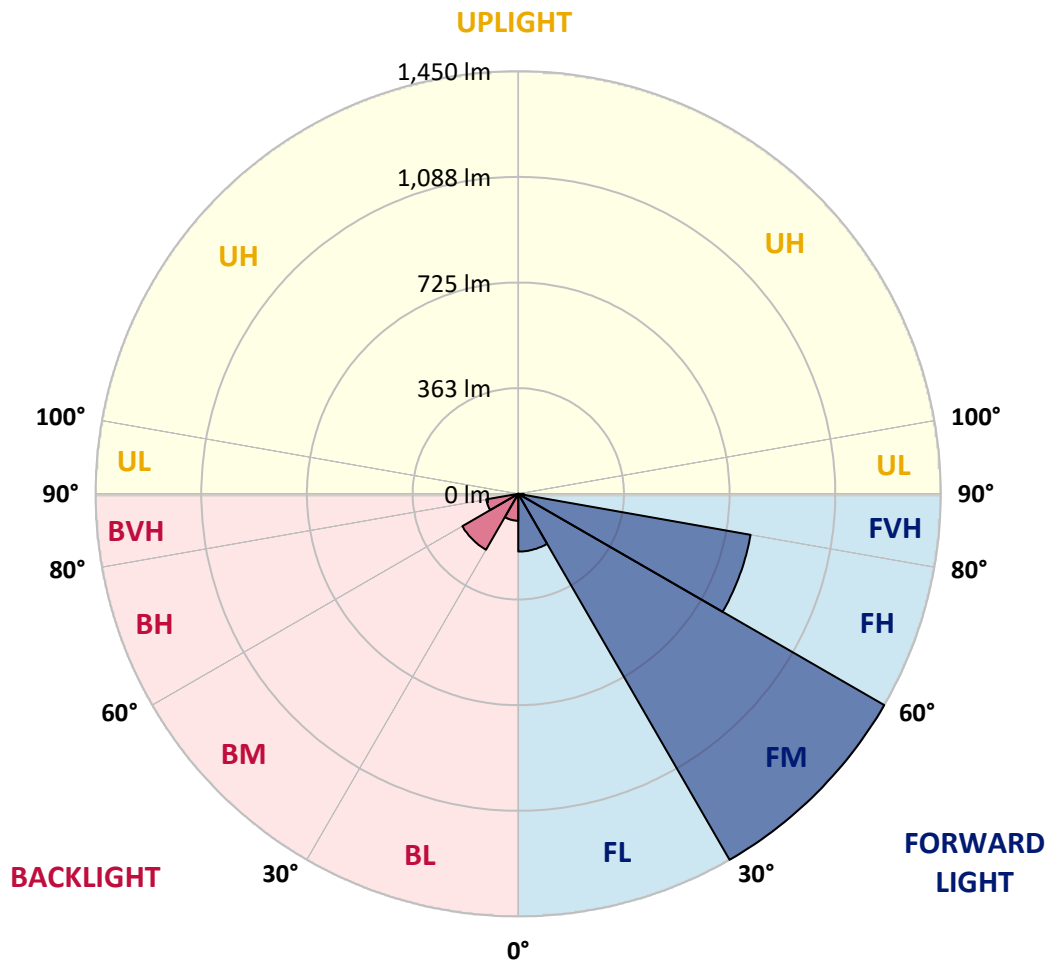


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.2	6.8			
FM (30°-60°)	1450.1	49.9			
FH (60°-80°)	809.6	27.9			G1/1800
FVH (80°-90°)	19.1	0.7			G1/100
BL (0°-30°)	92.4	3.2	B0/110		
BM (30°-60°)	221.5	7.6	B1/1000		
BH (60°-80°)	111.4	3.8	B1/500		G1/500
BVH (80°-90°)	1.5	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3
2.5°	366.7	365.8	367.2	366.5	366.1	365.4	365.0	364.6	363.8	363.2	360.8
5°	367.8	367.2	368.6	369.8	370.9	372.2	372.8	373.6	372.8	371.2	368.8
7.5°	359.4	359.0	362.0	365.6	370.9	375.6	380.6	383.3	383.6	382.9	380.4
10°	358.7	357.8	360.8	365.2	372.2	380.4	389.2	395.1	396.0	398.5	395.8
12.5°	368.2	367.2	371.4	376.2	383.3	392.0	402.7	411.1	412.4	415.9	413.9
15°	384.0	382.5	387.3	393.5	402.7	412.6	423.9	431.5	432.6	436.9	433.3
17.5°	402.3	401.0	406.5	413.1	423.1	436.5	449.7	458.1	459.3	462.1	455.5
20°	425.9	424.1	428.6	434.5	445.1	461.0	476.8	488.8	488.6	488.6	477.9
22.5°	453.3	450.5	454.3	459.1	469.0	488.4	509.4	523.6	523.6	518.0	500.2
25°	482.7	479.8	484.0	488.4	497.2	519.2	543.8	561.4	562.1	552.6	524.2
27.5°	519.4	515.8	519.0	524.2	529.4	551.8	581.0	601.3	601.7	586.9	546.9
30°	590.1	579.9	569.9	564.4	566.7	589.0	620.1	642.7	644.6	624.3	571.7
32.5°	719.6	717.6	682.4	636.4	612.5	628.8	663.8	691.0	692.2	666.0	603.9
35°	920.8	918.3	861.8	774.3	696.2	682.4	717.0	749.2	748.4	718.7	645.6
37.5°	1160.8	1158.7	1084.1	967.1	840.6	763.3	785.5	819.3	824.2	785.5	699.6
40°	1366.0	1357.8	1310.7	1197.8	1032.4	897.6	882.9	905.4	910.5	864.6	768.1
42.5°	1521.4	1514.4	1490.5	1419.9	1264.5	1096.1	997.8	1006.4	1012.2	957.1	846.9
45°	1602.0	1600.3	1610.0	1603.3	1501.1	1339.9	1162.0	1126.3	1128.5	1059.5	936.1
47.5°	1613.4	1612.5	1656.3	1718.2	1704.5	1614.8	1372.8	1275.7	1267.9	1175.3	1033.2
50°	1546.2	1544.6	1628.5	1744.6	1840.3	1845.7	1612.1	1444.1	1427.0	1294.9	1134.5
52.5°	1331.9	1331.5	1469.3	1662.4	1888.0	2047.8	1848.7	1629.1	1600.3	1421.6	1241.6
55°	1024.8	1032.2	1190.2	1418.6	1800.9	2145.1	2061.1	1834.4	1790.4	1549.0	1340.3
57.5°	726.0	736.8	893.0	1096.3	1530.8	2087.6	2204.7	2040.3	1992.7	1676.1	1440.3
60°	389.9	399.5	556.0	798.7	1138.9	1873.1	2280.4	2218.8	2173.9	1796.7	1530.6
62.5°	232.4	235.5	300.2	515.6	770.3	1430.9	2248.2	2354.8	2317.9	1898.0	1609.1
65°	166.8	167.4	200.0	314.9	467.7	869.4	2022.6	2420.0	2408.6	1974.4	1667.3
67.5°	140.4	140.0	153.6	209.2	318.7	435.5	1550.2	2327.9	2376.3	2022.6	1700.3
70°	120.4	121.1	137.0	153.2	239.5	246.5	770.7	2026.8	2130.0	2035.4	1698.2
72.5°	89.7	91.7	106.5	139.6	180.8	169.6	266.1	1502.9	1689.3	1917.8	1610.2
75°	63.3	64.4	74.9	117.5	134.9	123.4	135.8	776.9	1015.9	1470.3	1317.8
77.5°	48.8	50.5	56.8	82.1	132.8	86.7	83.1	268.9	413.1	888.2	903.5
80°	26.3	29.5	41.0	59.3	93.3	61.3	41.1	107.1	140.0	415.3	348.4
82.5°	13.6	15.2	28.6	42.7	53.1	53.5	20.4	44.6	57.7	128.2	47.8
85°	5.4	6.6	19.2	23.6	27.4	26.3	9.2	17.9	20.8	35.6	14.6
87.5°	1.2	1.9	7.0	5.4	5.2	5.6	2.2	4.2	4.0	4.2	2.6
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°	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3
2.5°	360.6	359.8	357.6	355.2	352.4	350.8	349.8	349.6	348.2	347.2	348.2
5°	366.5	365.8	361.6	356.6	351.2	347.0	343.0	339.4	334.3	333.2	332.8
7.5°	378.5	376.4	369.6	362.7	352.6	340.4	325.6	308.6	293.5	288.8	286.7
10°	393.4	390.3	381.7	369.8	347.2	314.1	278.3	245.1	218.7	211.4	208.6
12.5°	410.1	407.5	396.2	373.9	324.6	264.4	209.7	168.6	143.0	136.6	134.9
15°	430.1	426.3	410.5	367.6	284.2	201.0	144.0	119.6	110.5	109.3	108.0
17.5°	451.3	445.1	423.3	344.6	229.9	142.9	111.3	104.2	100.2	99.1	98.5
20°	470.7	462.7	430.9	309.9	171.8	111.3	99.7	95.1	91.5	90.1	89.3
22.5°	490.1	478.7	430.9	262.5	128.8	98.7	91.5	87.3	83.1	81.3	80.3
25°	510.2	495.1	423.3	209.7	103.7	90.5	83.7	79.1	75.5	73.3	72.5
27.5°	529.8	508.8	405.9	159.8	92.2	83.3	76.5	72.2	68.7	67.1	67.1
30°	548.4	522.4	381.6	121.3	84.9	76.4	69.9	66.1	62.7	61.1	61.3
32.5°	573.6	539.6	355.6	99.5	78.5	69.7	64.0	60.4	57.3	56.2	56.2
35°	608.5	565.0	333.2	97.7	73.1	64.4	58.5	55.1	52.2	51.1	51.1
37.5°	658.0	605.9	321.4	109.7	68.7	59.6	54.1	50.5	47.8	46.9	46.7
40°	719.1	661.4	327.8	121.7	65.7	55.4	50.1	46.5	44.2	43.2	42.9
42.5°	791.7	730.0	363.2	130.9	63.8	51.8	46.3	42.3	40.8	40.4	40.4
45°	875.0	805.2	417.3	140.6	60.6	48.4	42.5	39.6	38.3	38.1	37.9
47.5°	969.6	888.0	480.0	152.8	57.3	45.1	39.6	37.5	36.6	36.2	36.2
50°	1063.5	971.3	544.6	159.6	54.7	42.1	37.2	35.6	34.7	34.5	34.5
52.5°	1161.8	1057.0	596.8	153.2	52.6	39.8	35.2	33.9	33.2	33.0	33.0
55°	1255.5	1126.3	605.7	130.1	48.2	37.3	33.0	32.4	31.4	31.4	31.2
57.5°	1336.3	1161.0	542.2	95.5	43.8	33.7	30.7	30.1	29.3	29.2	29.0
60°	1410.4	1151.1	418.5	64.4	38.9	30.1	28.0	27.6	26.8	25.7	25.5
62.5°	1452.1	1107.1	286.3	41.9	34.1	26.3	24.8	24.6	22.8	20.8	20.4
65°	1467.9	1016.8	178.6	30.5	28.6	22.5	21.4	21.0	18.3	16.2	16.0
67.5°	1454.2	868.2	90.1	24.2	22.5	18.8	17.6	17.6	15.8	13.7	13.6
70°	1399.0	650.9	37.9	19.4	17.4	14.3	14.3	15.2	13.4	11.2	11.0
72.5°	1279.3	437.9	20.2	14.8	13.0	10.1	11.8	12.4	10.6	8.4	8.4
75°	1017.0	267.1	13.9	11.0	8.2	7.2	9.0	9.4	7.2	5.6	5.4
77.5°	695.6	153.4	9.4	7.0	5.2	4.2	6.1	5.8	3.8	2.6	2.8
80°	305.4	64.0	5.4	3.2	1.9	1.6	2.2	1.6	1.2	0.8	0.8
82.5°	35.8	15.0	1.9	1.2	0.8	0.4	0.2	0.0	0.0	0.0	0.0
85°	7.4	1.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.4	0.2	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)