

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: P882208

Luminaire Tested: **NAV-SB2A-722-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

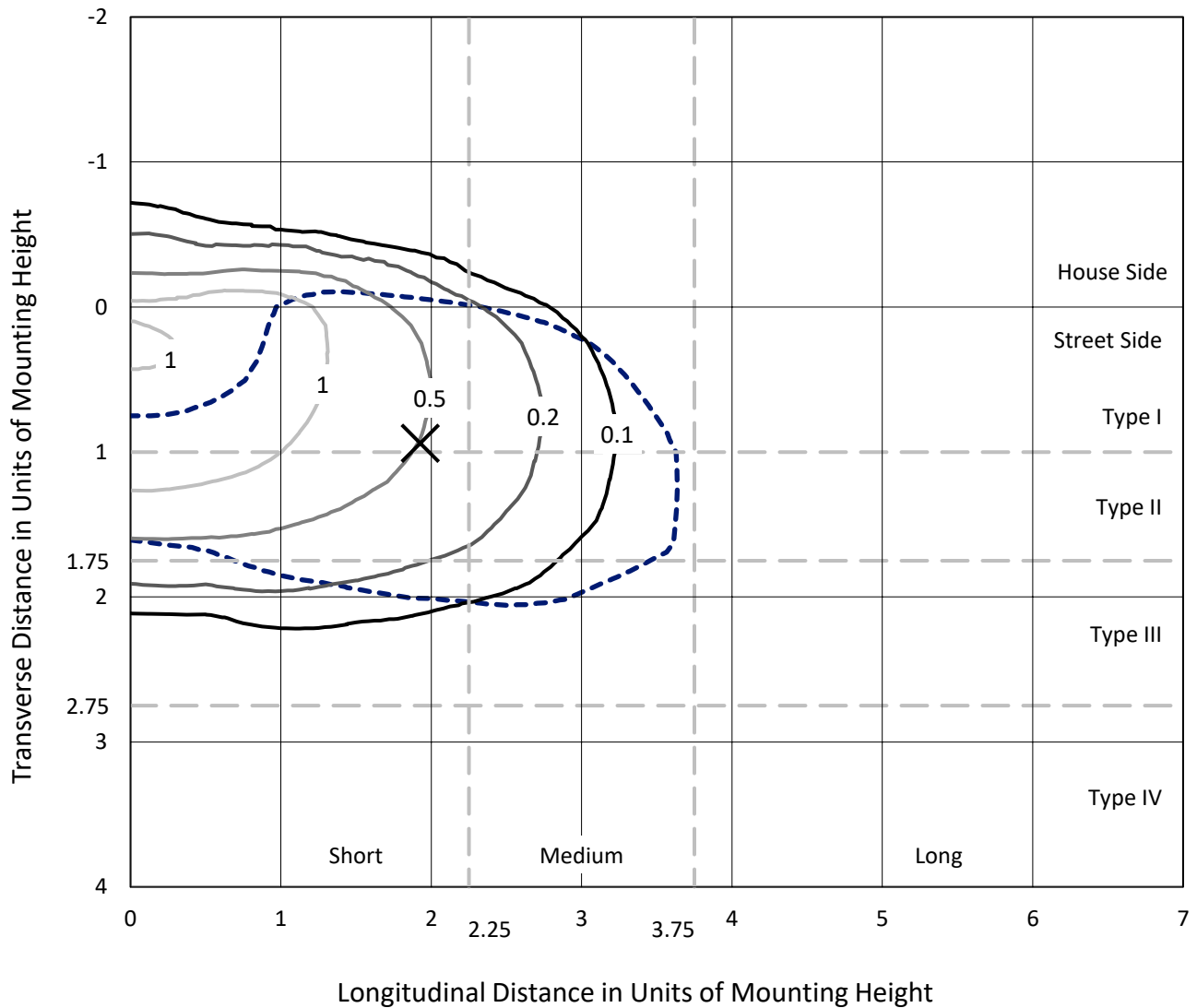
Lumens per Lamp: N/A  
Luminaire Lumens: 5714 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): 120.0  
Input Current (Ain): 0.484  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.038  
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

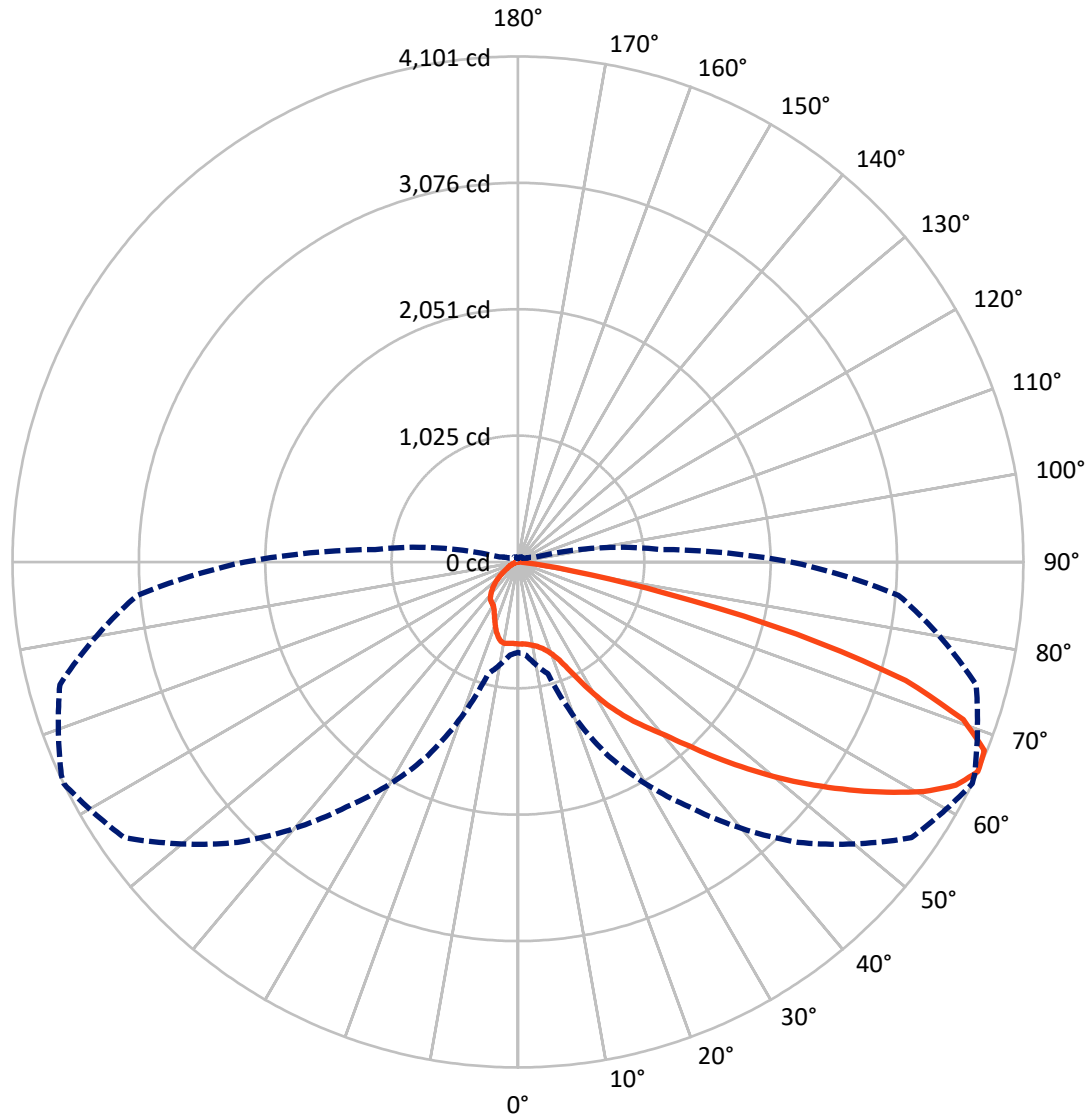
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	764.1	0.0	764.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4949.9	0.0	4949.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5714.0	0.0	5714.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	1.1
10°-20°	166.3	2.9
20°-30°	315.1	5.5
30°-40°	637.7	11.2
40°-50°	1086.3	19.0
50°-60°	1477.3	25.9
60°-70°	1387.2	24.3
70°-80°	555.8	9.7
80°-90°	26.9	0.5
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°	5714.0	100.0
0°-180°	5714.0	100.0

**Coefficient of Utilization**



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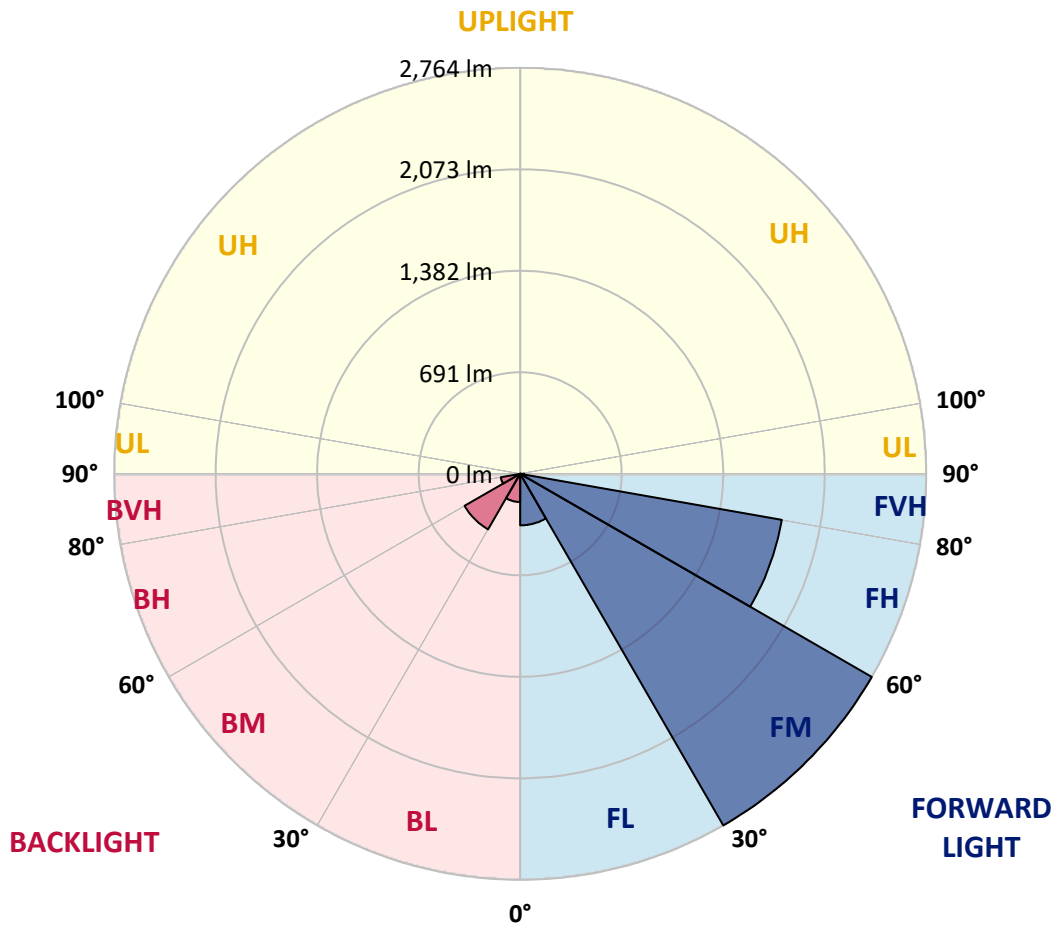
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.9	6.1			
FM (30°-60°)	2764.4	48.4			
FH (60°-80°)	1808.9	31.7			G2/5000
FVH (80°-90°)	25.6	0.4			G1/100
BL (0°-30°)	191.9	3.4	B1/500		
BM (30°-60°)	436.8	7.6	B1/1000		
BH (60°-80°)	134.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6
2.5°	662.3	666.9	665.7	664.6	664.2	665.0	665.4	665.0	665.0	665.0	665.4
5°	649.7	653.5	653.5	656.2	660.0	664.6	668.0	668.8	669.6	670.7	670.3
7.5°	625.5	628.6	630.9	639.7	649.3	661.5	671.9	677.2	678.0	682.2	683.8
10°	609.1	612.9	616.7	625.9	639.7	658.1	675.7	688.7	690.6	700.6	705.2
12.5°	608.3	612.1	617.1	627.1	643.1	662.7	684.1	702.9	706.4	720.9	730.5
15°	616.3	620.9	625.5	637.8	655.0	678.8	701.8	725.1	728.6	749.3	759.6
17.5°	632.8	638.9	642.4	654.6	673.0	699.5	729.7	756.5	759.6	783.7	796.8
20°	665.4	672.6	673.8	683.8	701.8	730.1	766.1	799.4	803.3	830.8	845.4
22.5°	732.8	743.1	733.9	738.9	755.0	783.3	822.4	864.6	869.9	901.3	914.3
25°	851.5	866.1	842.3	833.9	840.8	870.3	919.3	972.6	978.7	1004.0	1010.5
27.5°	1084.8	1066.0	1030.0	994.8	974.1	991.0	1046.1	1112.0	1119.7	1144.2	1136.5
30°	1341.1	1324.6	1276.0	1197.8	1148.8	1146.1	1197.0	1270.6	1279.4	1302.8	1279.4
32.5°	1597.7	1582.0	1529.1	1433.0	1348.0	1305.8	1341.1	1422.7	1427.3	1442.2	1407.7
35°	1850.1	1834.1	1781.2	1682.8	1578.2	1482.4	1475.5	1567.5	1569.0	1584.7	1533.4
37.5°	2104.1	2090.7	2034.4	1937.9	1834.8	1702.7	1638.7	1704.6	1706.5	1721.8	1668.6
40°	2285.3	2291.0	2252.4	2177.7	2089.2	1944.8	1821.8	1850.5	1839.0	1864.7	1832.9
42.5°	2440.8	2452.3	2418.6	2381.1	2329.7	2202.6	2048.6	2043.6	2025.2	2039.0	2006.1
45°	2575.3	2584.8	2554.6	2545.8	2544.6	2455.4	2296.4	2266.5	2240.9	2238.2	2198.7
47.5°	2624.7	2643.1	2656.1	2685.6	2743.0	2705.5	2552.7	2506.3	2477.6	2456.5	2394.1
50°	2643.5	2663.0	2707.4	2793.2	2929.2	2945.3	2807.8	2755.7	2720.4	2682.1	2590.2
52.5°	2618.2	2653.0	2712.8	2857.2	3054.5	3137.6	3052.6	3007.0	2966.7	2904.3	2767.9
55°	2469.2	2504.0	2626.2	2856.4	3116.9	3272.4	3283.9	3263.6	3218.4	3120.0	2911.6
57.5°	2155.1	2206.8	2400.2	2759.1	3115.8	3388.5	3510.7	3525.2	3474.7	3333.7	3024.6
60°	1719.9	1790.0	2026.0	2543.5	3019.6	3451.3	3709.5	3782.3	3728.6	3544.4	3116.1
62.5°	1200.1	1281.3	1504.6	2205.6	2799.7	3406.1	3854.7	3989.1	3948.5	3732.9	3151.4
65°	732.0	758.1	938.1	1735.6	2425.9	3216.9	3899.5	4101.0	4087.6	3848.2	3099.3
67.5°	487.6	509.5	561.2	1190.1	1883.1	2838.8	3792.2	4081.4	4085.3	3829.4	2908.5
70°	293.8	312.6	346.3	692.2	1220.4	2247.0	3460.1	3832.4	3854.7	3578.5	2546.9
72.5°	121.0	133.7	164.3	313.7	632.0	1426.1	2755.3	3290.4	3342.1	3008.9	1954.7
75°	68.6	75.1	96.5	157.4	274.3	664.6	1669.0	2335.9	2412.1	2073.9	1176.0
77.5°	45.6	48.6	62.4	101.9	154.4	226.8	713.2	1217.0	1362.5	1132.7	509.1
80°	30.6	33.3	42.9	68.2	100.4	97.3	227.2	450.9	554.7	389.2	124.1
82.5°	20.7	21.1	30.6	44.8	63.6	47.1	67.0	140.2	176.2	112.6	47.1
85°	11.9	11.5	22.6	26.0	28.3	19.5	20.3	42.1	55.2	47.5	26.8
87.5°	1.5	2.3	8.8	6.9	3.8	4.2	4.2	7.3	10.7	11.5	5.7
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°	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6	664.6
2.5°	665.4	665.0	663.8	662.7	660.0	658.5	659.2	658.5	658.1	658.5	660.0
5°	670.3	669.2	666.1	662.3	656.9	650.4	646.2	640.1	634.3	630.9	631.7
7.5°	683.8	682.6	678.4	667.7	650.4	623.2	598.3	576.5	560.0	550.4	550.8
10°	705.2	703.3	696.8	673.0	627.8	568.5	519.0	478.1	451.2	438.6	437.4
12.5°	730.5	728.2	716.7	668.0	584.9	492.2	424.0	378.5	353.6	342.4	341.3
15°	760.4	757.3	734.7	644.3	522.5	408.0	345.5	311.4	295.3	285.4	285.8
17.5°	797.5	792.2	748.1	608.7	454.7	343.6	297.2	271.6	257.4	247.8	247.1
20°	845.8	837.0	758.8	566.2	392.2	303.0	264.7	243.2	232.5	224.1	222.6
22.5°	913.2	900.6	771.9	520.2	348.2	275.0	240.6	224.9	216.0	206.5	204.9
25°	996.7	981.8	787.9	477.7	317.9	250.9	222.9	209.9	199.6	188.5	187.3
27.5°	1113.5	1086.7	807.1	442.8	291.9	230.2	206.8	192.3	180.4	171.2	169.3
30°	1243.8	1199.7	823.9	421.7	268.1	211.1	185.8	171.2	160.1	153.6	152.5
32.5°	1367.1	1307.4	835.1	412.5	246.7	189.2	162.8	147.1	138.7	136.8	137.9
35°	1483.6	1404.7	833.9	403.7	227.5	167.4	140.2	124.1	117.6	118.7	118.7
37.5°	1617.6	1508.5	825.9	389.9	211.8	147.5	120.7	106.5	100.7	101.1	102.7
40°	1773.5	1628.4	820.9	363.9	194.6	129.1	104.6	93.1	88.9	87.3	87.0
42.5°	1939.8	1744.4	821.6	334.4	173.1	112.6	93.5	83.9	80.1	78.9	78.5
45°	2106.8	1855.1	822.8	303.8	150.5	100.0	85.4	77.4	75.1	73.5	73.5
47.5°	2263.8	1949.4	801.3	270.8	128.3	90.4	78.9	73.5	71.6	69.7	69.7
50°	2410.2	2012.2	749.6	232.5	110.7	82.7	73.9	70.1	68.2	66.3	66.3
52.5°	2523.9	2022.1	664.2	193.1	98.4	77.0	70.9	67.4	65.1	63.2	62.8
55°	2574.5	1959.7	542.8	156.3	88.9	72.0	67.8	64.4	61.7	59.8	59.4
57.5°	2561.5	1828.3	423.3	125.6	79.7	67.0	64.0	61.7	58.6	55.5	55.2
60°	2497.5	1652.5	319.1	104.6	71.2	61.7	59.8	57.8	53.6	49.0	48.3
62.5°	2386.8	1431.5	227.5	86.6	62.1	55.5	54.8	53.2	47.1	38.7	37.9
65°	2217.5	1162.9	153.2	72.0	53.2	48.6	49.0	46.3	38.3	28.7	28.0
67.5°	1970.0	850.4	98.1	59.0	44.4	40.6	41.0	39.5	32.6	24.5	23.4
70°	1654.8	563.1	64.0	44.8	35.6	31.4	33.7	34.1	27.6	19.9	19.2
72.5°	1213.1	332.5	44.8	33.3	26.0	21.8	27.6	28.3	22.2	14.9	14.2
75°	691.4	157.8	33.7	24.1	16.1	15.3	21.5	21.5	15.3	10.0	9.2
77.5°	290.4	65.9	23.7	15.7	9.2	8.8	14.6	13.4	7.7	4.6	4.6
80°	83.9	29.5	12.6	7.7	3.8	3.4	5.7	4.2	1.9	0.8	0.8
82.5°	32.9	13.0	5.0	3.1	1.5	1.5	0.8	0.0	0.0	0.0	0.0
85°	19.5	5.4	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.1	0.8	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)