

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: P961322

Luminaire Tested: **NAV-SB2A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961322  
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-SB2A-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

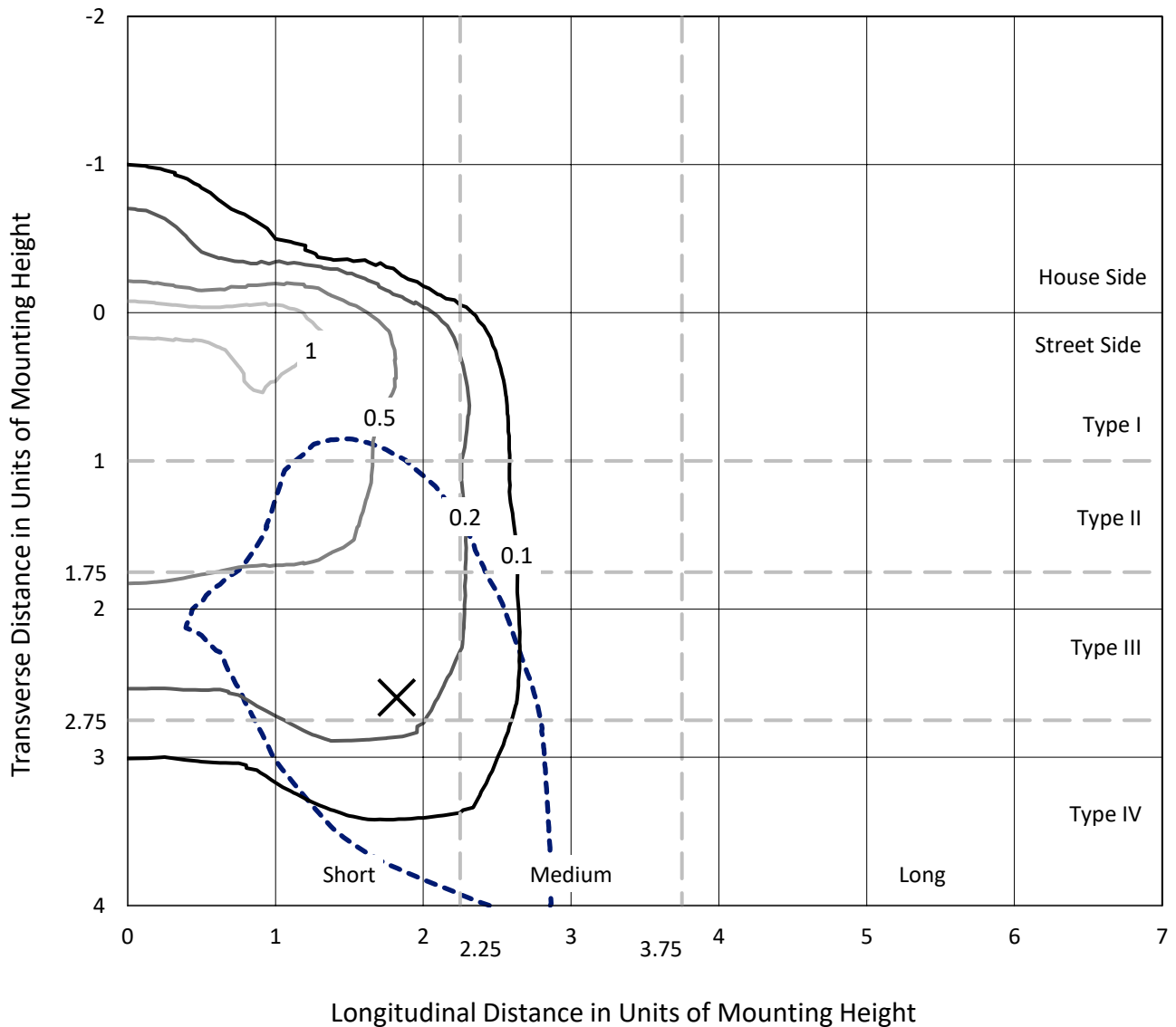
Lumens per Lamp: N/A  
Luminaire Lumens: 5751.3 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

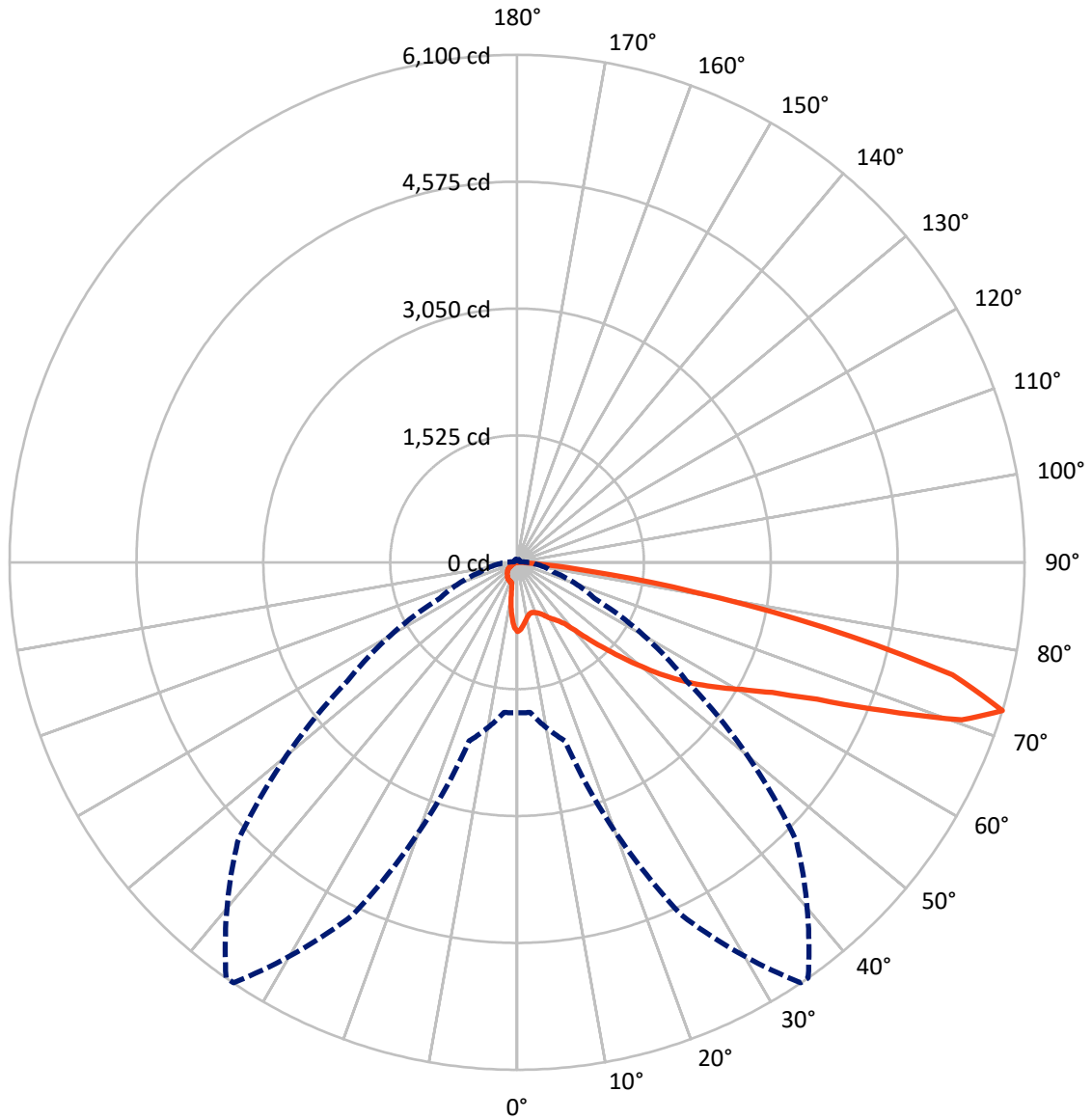
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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
<b>House Side</b>	Lumens	647.3	0.0	647.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	5104.0	0.0	5104.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	5751.3	0.0	5751.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	1.2
10°-20°	160.2	2.8
20°-30°	260.3	4.5
30°-40°	434.3	7.6
40°-50°	821.7	14.3
50°-60°	1305.7	22.7
60°-70°	1615.3	28.1
70°-80°	1004.1	17.5
80°-90°	81.1	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°	5751.3	100.0
0°-180°	5751.3	100.0

**Coefficient of Utilization**



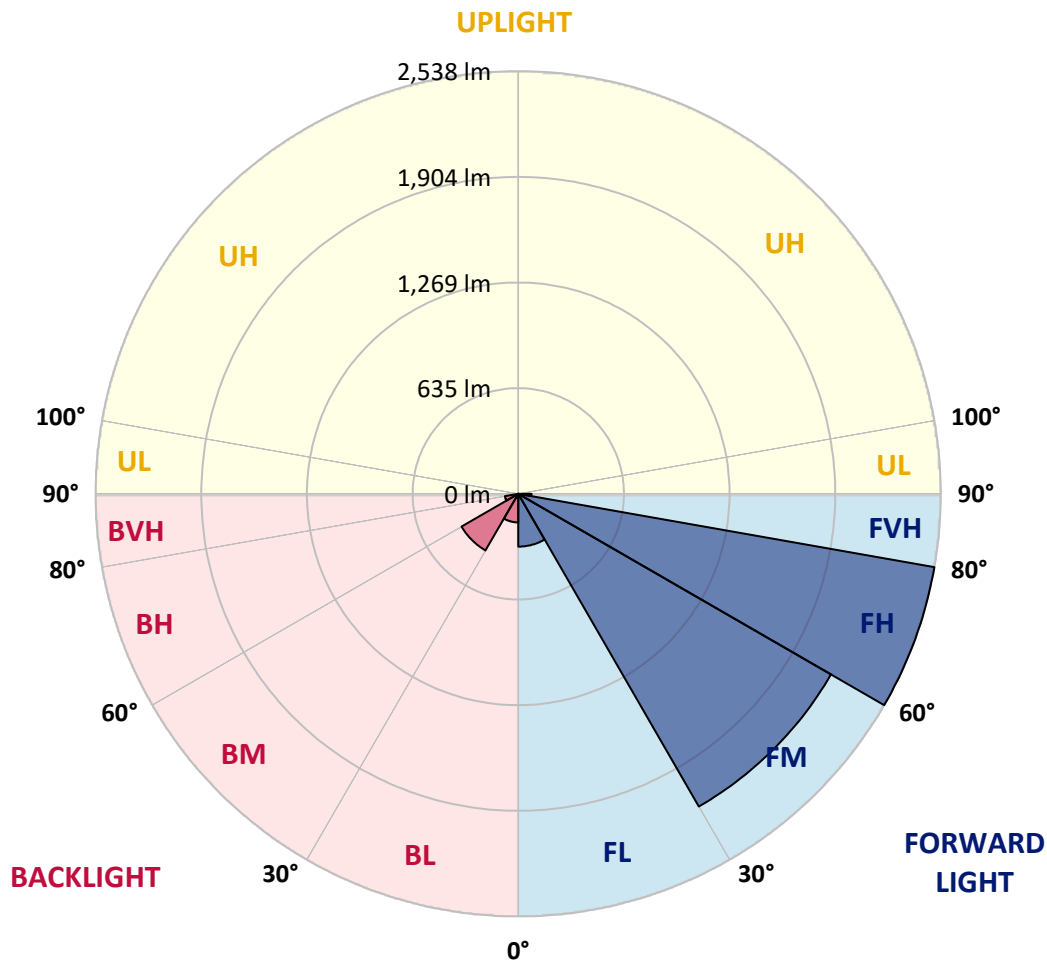
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.0	5.5			
FM (30°-60°)	2168.8	37.7			
FH (60°-80°)	2538.1	44.1			G2/5000
FVH (80°-90°)	80.0	1.4			G1/100
BL (0°-30°)	172.0	3.0	B1/500		
BM (30°-60°)	393.0	6.8	B1/1000		
BH (60°-80°)	81.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	796.4	803.2	804.5	806.6	806.6	809.1	813.3	819.2	828.9	833.9	837.3
5°	734.1	739.1	745.5	750.5	760.2	761.5	778.0	794.0	816.3	833.1	844.9
7.5°	671.3	677.2	685.6	697.8	710.5	714.3	739.1	766.1	801.6	833.1	852.9
10°	627.1	627.5	635.1	647.3	667.5	672.2	702.5	740.9	785.0	828.1	860.5
12.5°	602.2	605.2	608.5	617.8	637.1	640.1	672.6	717.7	768.6	825.1	869.4
15°	602.2	604.3	606.4	611.0	626.7	629.1	657.8	702.9	760.2	826.4	883.7
17.5°	608.5	611.9	610.2	615.7	632.1	633.8	659.1	698.7	759.8	834.4	905.6
20°	623.7	626.2	622.9	626.2	642.7	646.1	672.2	706.7	767.0	848.3	933.0
22.5°	647.7	648.9	640.9	643.5	660.3	664.6	694.9	729.5	784.2	870.6	969.6
25°	678.0	680.6	668.4	671.3	687.4	692.4	727.3	763.6	811.6	901.4	1016.5
27.5°	713.0	714.3	703.8	703.4	724.0	731.1	766.6	805.8	848.3	940.1	1075.4
30°	753.1	756.9	746.7	745.1	771.2	777.1	812.1	857.6	902.2	998.4	1159.3
32.5°	784.6	787.6	781.8	786.0	812.5	817.1	867.3	930.9	987.0	1081.0	1273.5
35°	830.1	831.9	818.4	825.9	856.3	868.1	942.7	1033.7	1093.6	1184.6	1422.7
37.5°	995.0	995.0	937.7	900.2	929.2	939.7	1045.9	1163.1	1225.1	1323.7	1610.7
40°	1222.9	1219.1	1135.3	1058.6	1054.8	1075.4	1193.0	1326.1	1394.9	1490.6	1822.1
42.5°	1466.1	1460.2	1346.0	1270.2	1257.5	1264.6	1362.8	1527.1	1597.2	1694.1	2049.8
45°	1681.8	1680.2	1575.6	1473.6	1450.9	1473.6	1574.8	1762.4	1812.5	1914.5	2276.9
47.5°	1862.6	1862.6	1786.4	1719.7	1708.0	1721.5	1861.8	2023.2	2018.5	2149.2	2498.1
50°	2070.8	2069.2	1996.7	1968.0	1980.2	1999.2	2192.2	2297.9	2231.8	2379.7	2695.7
52.5°	2216.7	2226.7	2201.9	2197.2	2259.6	2292.5	2527.6	2566.8	2422.7	2598.4	2843.7
55°	2332.1	2343.9	2372.6	2405.0	2525.1	2568.0	2852.6	2821.7	2582.4	2788.1	2928.8
57.5°	2495.6	2478.8	2523.0	2587.0	2781.3	2833.2	3167.4	3062.4	2710.9	2941.9	2938.1
60°	2694.1	2696.6	2704.2	2785.1	3037.1	3103.7	3477.5	3289.9	2793.5	3036.3	2835.3
62.5°	2932.6	2936.4	2952.0	3076.3	3380.6	3443.4	3807.9	3476.2	2831.5	3009.7	2569.8
65°	2916.1	2932.2	3106.3	3531.4	3902.7	3964.6	4193.5	3606.9	2774.2	2767.0	2092.3
67.5°	2656.6	2682.7	2973.9	4075.1	4689.9	4759.0	4659.5	3632.6	2526.8	2151.7	1365.0
70°	2316.1	2325.3	2675.6	4563.9	5601.4	5671.3	5076.7	3349.8	1917.5	1200.2	611.5
72.5°	1808.7	1810.8	2221.7	4677.3	6096.2	6100.0	4749.3	2486.8	1031.1	461.0	212.4
75°	1292.0	1279.4	1488.0	3793.1	5363.3	5406.3	3560.5	1166.4	394.0	217.9	105.8
77.5°	692.8	706.7	841.9	2249.5	3705.1	3778.4	1942.7	336.3	200.6	148.3	69.9
80°	214.1	225.9	345.1	1029.9	2098.6	2142.9	720.2	149.6	139.9	105.8	45.9
82.5°	67.4	69.9	161.0	432.8	871.0	891.2	208.6	84.7	95.6	69.9	27.0
85°	19.4	19.8	71.6	161.4	215.4	219.6	58.5	32.9	54.7	43.4	13.9
87.5°	2.2	6.8	27.0	27.0	19.0	18.6	6.4	7.2	15.6	5.4	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°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	835.3	835.7	830.1	820.9	810.8	802.4	791.8	783.4	777.5	775.8	778.8
5°	841.1	838.1	822.6	794.4	760.7	731.5	699.2	673.4	656.5	649.4	651.9
7.5°	850.0	841.5	807.4	751.8	687.4	630.0	571.8	526.7	498.2	483.8	485.8
10°	857.6	840.7	782.2	690.2	591.6	504.8	426.5	372.1	341.7	327.5	327.9
12.5°	864.7	840.3	749.3	617.4	483.8	377.6	304.6	277.7	269.3	266.3	265.5
15°	878.2	841.5	708.0	533.9	376.3	285.3	258.7	258.3	260.0	259.1	258.7
17.5°	896.8	842.9	661.2	445.5	290.4	251.5	250.3	254.1	256.7	255.3	254.9
20°	920.8	847.9	611.5	357.8	249.5	243.1	246.1	249.5	251.5	249.5	249.1
22.5°	954.5	856.7	557.1	287.4	236.4	238.1	240.7	244.5	246.5	243.5	243.1
25°	995.8	870.6	503.6	249.9	230.1	232.2	236.0	240.2	242.7	239.7	239.3
27.5°	1049.3	893.0	454.3	241.5	223.8	225.0	230.5	236.9	240.2	236.4	236.4
30°	1126.9	929.7	411.7	245.3	220.0	217.0	224.6	233.5	237.3	233.9	233.5
32.5°	1229.7	981.4	385.6	251.1	218.3	207.8	214.9	226.3	232.6	230.5	230.5
35°	1364.6	1060.3	375.5	257.9	217.0	198.0	203.2	215.4	226.3	228.4	228.4
37.5°	1528.1	1169.8	378.4	260.9	213.2	190.0	192.6	203.2	217.4	224.2	225.9
40°	1713.9	1297.5	395.2	257.9	209.0	183.3	183.8	191.8	204.4	214.5	217.9
42.5°	1905.6	1446.7	426.5	246.9	205.2	177.4	176.2	181.6	190.0	197.2	200.2
45°	2088.1	1600.1	457.3	231.8	200.6	171.5	168.6	170.7	172.4	175.3	177.0
47.5°	2247.4	1708.0	448.3	217.9	194.2	164.8	159.7	158.9	153.9	153.4	152.9
50°	2357.4	1731.5	398.2	204.0	185.0	157.2	149.1	144.1	135.3	131.1	131.5
52.5°	2392.4	1638.5	325.3	190.0	169.8	147.1	135.7	127.7	116.7	113.0	112.5
55°	2346.0	1456.0	260.0	173.2	148.7	133.6	121.0	110.4	101.6	97.0	97.0
57.5°	2232.7	1223.7	205.6	153.4	126.4	118.4	105.8	95.2	87.6	83.0	82.2
60°	2044.7	971.8	162.7	129.8	107.9	102.0	88.9	82.2	75.4	69.9	68.7
62.5°	1759.4	693.6	127.7	102.8	90.2	83.4	75.8	70.8	62.8	55.2	53.9
65°	1373.0	424.4	98.6	75.4	72.5	69.1	64.5	59.9	50.1	42.5	41.3
67.5°	866.0	201.0	70.4	56.9	57.3	55.7	53.5	49.7	42.5	35.8	35.0
70°	381.4	97.4	46.3	43.4	42.5	42.5	44.3	42.9	36.3	29.9	28.7
72.5°	129.8	52.3	34.5	32.9	30.7	30.3	37.1	35.8	29.1	23.2	21.9
75°	67.9	35.0	25.3	23.6	18.6	22.3	29.5	27.8	20.6	15.2	13.9
77.5°	44.3	24.9	17.3	15.2	10.6	14.8	21.9	19.4	12.2	7.6	6.8
80°	27.8	16.4	10.1	7.2	5.0	8.0	11.8	8.4	4.6	1.6	1.2
82.5°	14.8	8.4	3.8	2.6	2.2	2.6	3.0	2.2	0.8	0.0	0.0
85°	5.9	3.0	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	2.2	0.4	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)