

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: P882888

Luminaire Tested: **NAV-SB3A-722-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882888  
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-SB3A-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

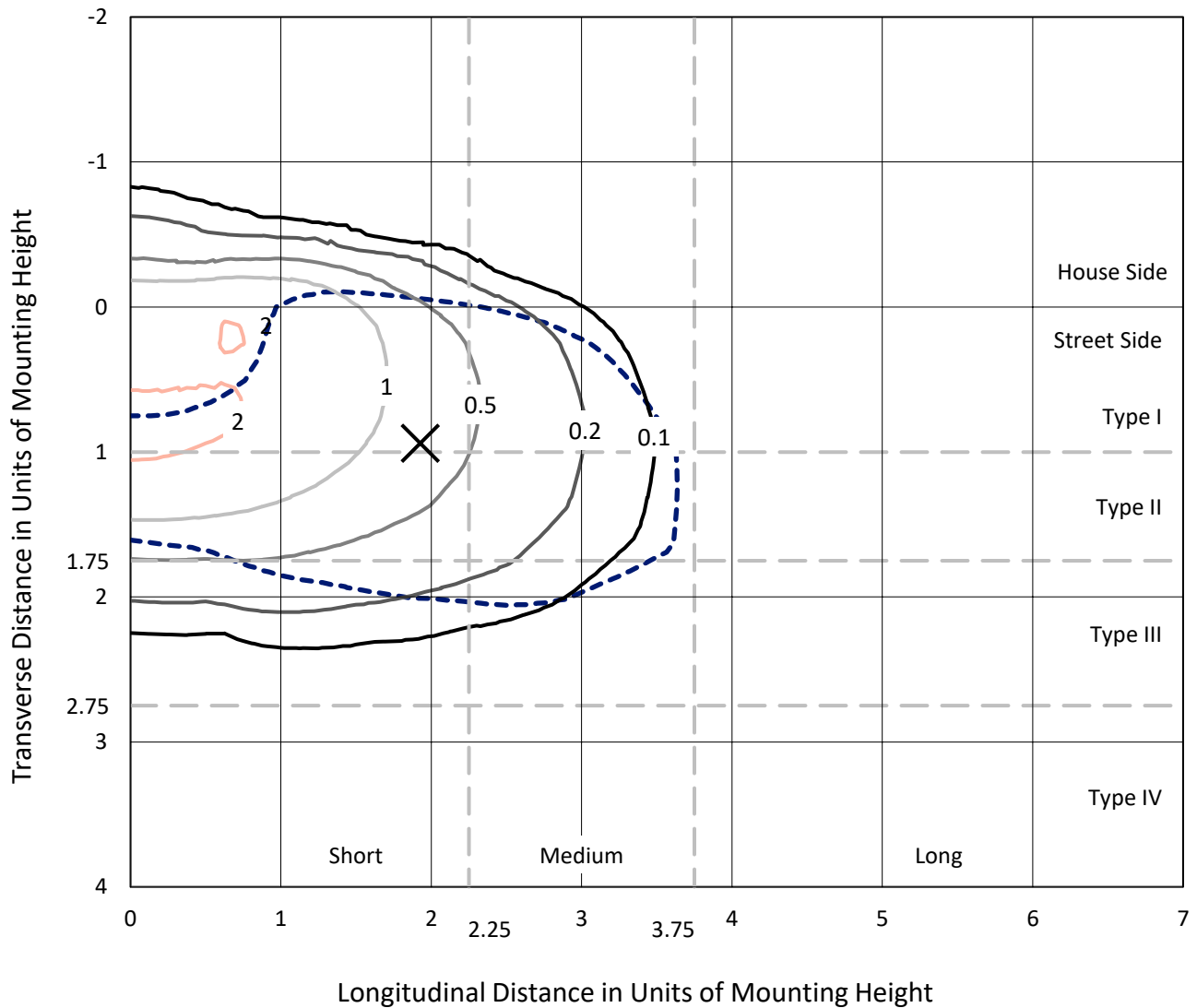
Lumens per Lamp: N/A  
Luminaire Lumens: 8409 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

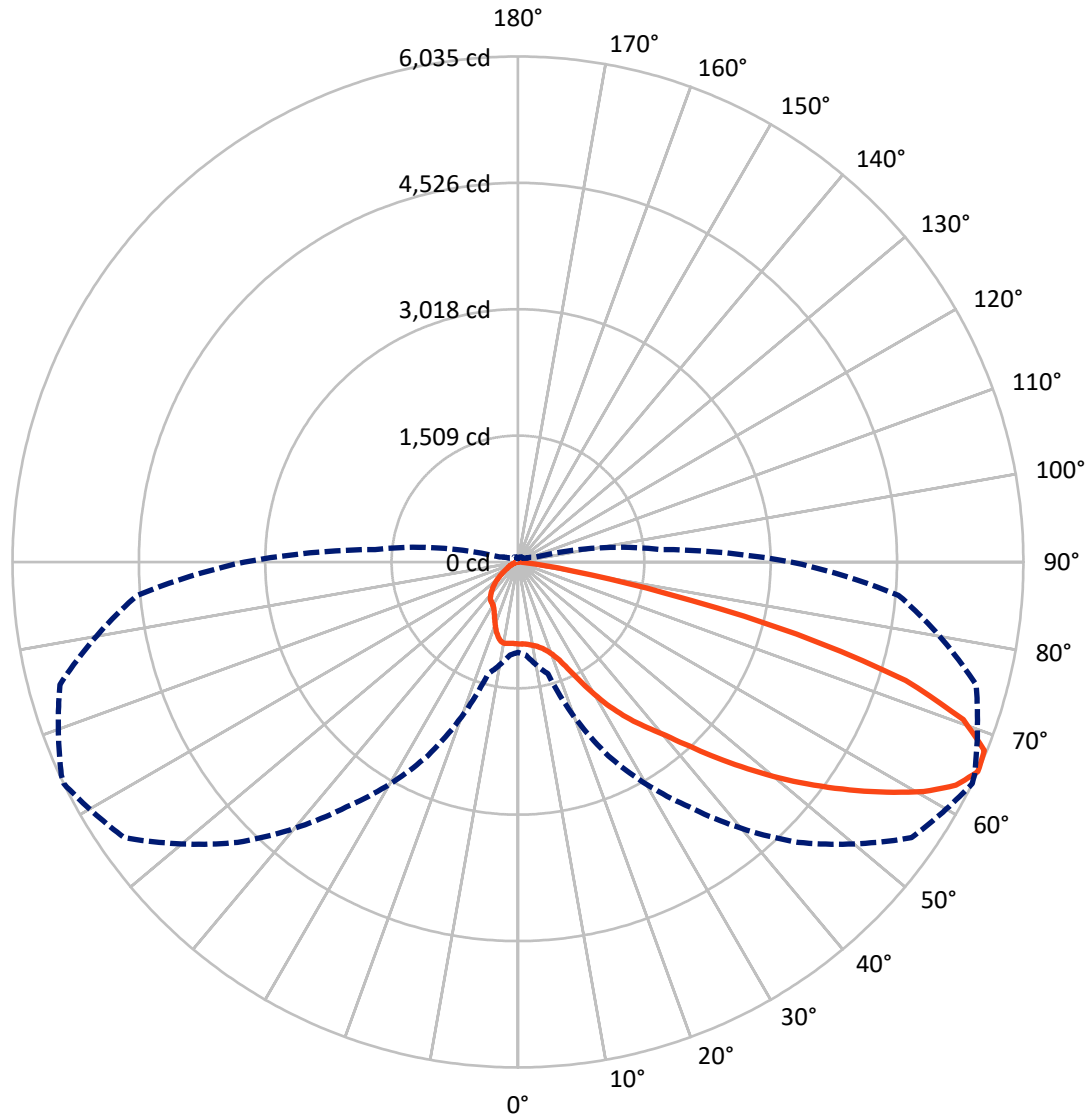
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1124.5	0.0	1124.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7284.5	0.0	7284.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8409.0	0.0	8409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.1
10°-20°	244.7	2.9
20°-30°	463.8	5.5
30°-40°	938.5	11.2
40°-50°	1598.7	19.0
50°-60°	2174.1	25.9
60°-70°	2041.5	24.3
70°-80°	817.9	9.7
80°-90°	39.6	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°	8409.0	100.0
0°-180°	8409.0	100.0

**Coefficient of Utilization**



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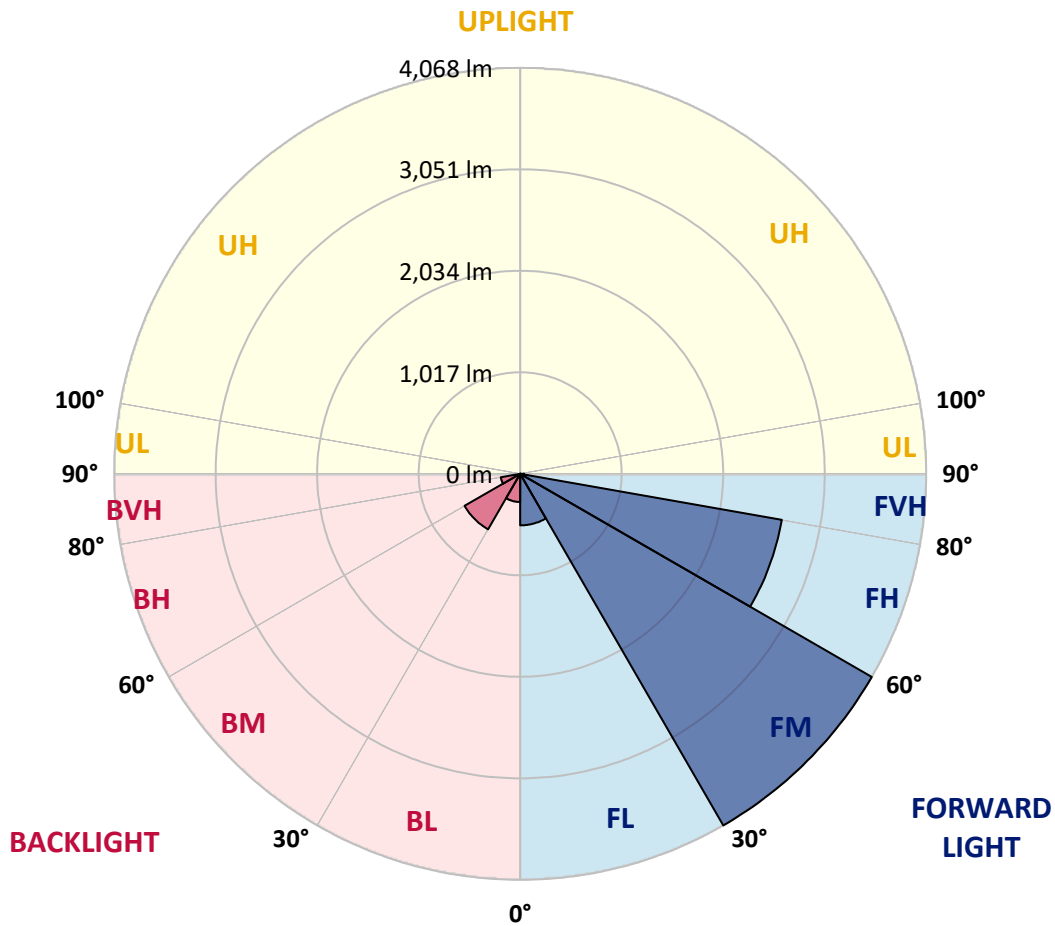
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.4	6.1			
FM (30°-60°)	4068.3	48.4			
FH (60°-80°)	2662.1	31.7			G2/5000
FVH (80°-90°)	37.7	0.4			G1/100
BL (0°-30°)	282.3	3.4	B1/500		
BM (30°-60°)	642.9	7.6	B1/1000		
BH (60°-80°)	197.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1
2.5°	974.7	981.4	979.7	978.1	977.5	978.6	979.2	978.6	978.6	978.6	979.2
5°	956.1	961.7	961.7	965.7	971.3	978.1	983.1	984.3	985.4	987.1	986.5
7.5°	920.6	925.1	928.4	941.4	955.5	973.5	988.8	996.7	997.8	1004.0	1006.2
10°	896.3	902.0	907.6	921.1	941.4	968.5	994.4	1013.6	1016.4	1031.0	1037.8
12.5°	895.2	900.8	908.2	922.8	946.5	975.2	1006.8	1034.4	1039.5	1060.9	1075.0
15°	907.0	913.8	920.6	938.6	964.0	998.9	1032.7	1067.1	1072.2	1102.6	1117.9
17.5°	931.3	940.3	945.4	963.4	990.5	1029.4	1073.9	1113.3	1117.9	1153.4	1172.5
20°	979.2	989.9	991.6	1006.2	1032.7	1074.5	1127.4	1176.5	1182.1	1222.7	1244.1
22.5°	1078.4	1093.6	1080.1	1087.4	1111.1	1152.8	1210.3	1272.3	1280.2	1326.4	1345.6
25°	1253.1	1274.6	1239.6	1227.2	1237.4	1280.8	1352.9	1431.3	1440.3	1477.5	1487.1
27.5°	1596.5	1568.8	1515.8	1464.0	1433.5	1458.3	1539.5	1636.5	1647.8	1683.8	1672.6
30°	1973.6	1949.3	1877.8	1762.8	1690.6	1686.6	1761.6	1869.9	1882.8	1917.2	1882.8
32.5°	2351.3	2328.2	2250.4	2108.9	1983.7	1921.7	1973.6	2093.7	2100.4	2122.4	2071.7
35°	2722.8	2699.1	2621.3	2476.4	2322.5	2181.6	2171.4	2306.7	2309.0	2332.1	2256.6
37.5°	3096.5	3076.8	2993.9	2851.9	2700.2	2505.7	2411.6	2508.6	2511.4	2533.9	2455.6
40°	3363.2	3371.6	3314.7	3204.7	3074.5	2862.0	2681.1	2723.3	2706.4	2744.2	2697.4
42.5°	3592.0	3608.9	3559.3	3504.1	3428.5	3241.4	3014.8	3007.4	2980.4	3000.7	2952.2
45°	3789.9	3804.0	3759.4	3746.5	3744.8	3613.4	3379.5	3335.5	3297.8	3293.8	3235.8
47.5°	3862.6	3889.7	3908.8	3952.2	4036.8	3981.6	3756.6	3688.4	3646.1	3615.1	3523.2
50°	3890.2	3919.0	3984.4	4110.6	4310.8	4334.4	4132.1	4055.4	4003.5	3947.2	3811.9
52.5°	3853.0	3904.3	3992.3	4204.8	4495.1	4617.4	4492.3	4425.2	4366.0	4274.1	4073.4
55°	3633.7	3685.0	3864.9	4203.7	4587.0	4815.9	4832.8	4802.9	4736.4	4591.5	4284.8
57.5°	3171.5	3247.6	3532.3	4060.5	4585.3	4986.7	5166.5	5187.9	5113.5	4906.1	4451.1
60°	2531.1	2634.3	2981.5	3743.1	4443.8	5079.1	5459.1	5566.2	5487.2	5216.1	4585.9
62.5°	1766.1	1885.6	2214.3	3245.9	4120.2	5012.6	5672.7	5870.6	5810.8	5493.5	4637.7
65°	1077.3	1115.6	1380.6	2554.2	3570.0	4734.1	5738.7	6035.2	6015.5	5663.1	4561.1
67.5°	717.6	749.7	825.8	1751.5	2771.2	4177.7	5580.8	6006.4	6012.1	5635.5	4280.3
70°	432.4	460.0	509.6	1018.6	1796.0	3306.8	5092.1	5640.0	5672.7	5266.3	3748.2
72.5°	178.1	196.7	241.8	461.7	930.1	2098.7	4054.8	4842.4	4918.5	4428.0	2876.7
75°	100.9	110.5	142.1	231.7	403.6	978.1	2456.1	3437.6	3549.7	3052.0	1730.6
77.5°	67.1	71.6	91.9	149.9	227.2	333.7	1049.6	1790.9	2005.2	1666.9	749.2
80°	45.1	49.0	63.1	100.3	147.7	143.2	334.3	663.5	816.3	572.7	182.6
82.5°	30.4	31.0	45.1	66.0	93.6	69.3	98.7	206.3	259.3	165.7	69.3
85°	17.5	16.9	33.3	38.3	41.7	28.7	29.9	62.0	81.2	69.9	39.5
87.5°	2.3	3.4	13.0	10.1	5.6	6.2	6.2	10.7	15.8	16.9	8.5
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°	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1
2.5°	979.2	978.6	976.9	975.2	971.3	969.0	970.2	969.0	968.5	969.0	971.3
5°	986.5	984.8	980.3	974.7	966.8	957.2	951.0	942.0	933.5	928.4	929.6
7.5°	1006.2	1004.5	998.3	982.6	957.2	917.2	880.5	848.4	824.2	810.1	810.6
10°	1037.8	1035.0	1025.4	990.5	923.9	836.6	763.8	703.5	664.1	645.5	643.8
12.5°	1075.0	1071.6	1054.7	983.1	860.8	724.4	624.0	557.0	520.3	504.0	502.3
15°	1119.0	1114.5	1081.2	948.2	768.9	600.4	508.5	458.3	434.6	420.0	420.5
17.5°	1173.7	1165.8	1100.9	895.8	669.1	505.7	437.4	399.7	378.8	364.7	363.6
20°	1244.7	1231.7	1116.7	833.2	577.2	445.9	389.5	358.0	342.2	329.8	327.5
22.5°	1343.9	1325.3	1135.9	765.5	512.4	404.8	354.0	330.9	317.9	303.8	301.6
25°	1466.8	1444.8	1159.6	703.0	467.9	369.2	328.1	308.9	293.7	277.4	275.7
27.5°	1638.7	1599.3	1187.8	651.7	429.6	338.8	304.4	283.0	265.5	252.0	249.2
30°	1830.4	1765.6	1212.6	620.7	394.6	310.6	273.4	252.0	235.6	226.1	224.4
32.5°	2011.9	1924.0	1228.9	607.1	363.0	278.5	239.6	216.5	204.1	201.2	202.9
35°	2183.3	2067.2	1227.2	594.2	334.8	246.3	206.3	182.6	173.1	174.8	174.8
37.5°	2380.6	2219.9	1215.4	573.9	311.7	217.0	177.6	156.7	148.3	148.8	151.1
40°	2610.0	2396.4	1208.1	535.5	286.4	190.0	153.9	137.0	130.8	128.5	128.0
42.5°	2854.7	2567.2	1209.2	492.1	254.8	165.7	137.5	123.5	117.8	116.1	115.6
45°	3100.5	2730.1	1210.9	447.0	221.5	147.1	125.7	113.9	110.5	108.2	108.2
47.5°	3331.6	2868.8	1179.3	398.5	188.8	133.0	116.1	108.2	105.4	102.6	102.6
50°	3546.9	2961.2	1103.2	342.2	162.9	121.8	108.8	103.2	100.3	97.5	97.5
52.5°	3714.4	2975.9	977.5	284.1	144.9	113.3	104.3	99.2	95.8	93.0	92.5
55°	3788.8	2884.0	798.8	230.0	130.8	106.0	99.8	94.7	90.8	87.9	87.4
57.5°	3769.6	2690.6	622.9	184.9	117.3	98.7	94.1	90.8	86.2	81.7	81.2
60°	3675.5	2431.9	469.6	153.9	104.9	90.8	87.9	85.1	78.9	72.2	71.0
62.5°	3512.5	2106.6	334.8	127.4	91.3	81.7	80.6	78.4	69.3	56.9	55.8
65°	3263.4	1711.5	225.5	106.0	78.4	71.6	72.2	68.2	56.4	42.3	41.2
67.5°	2899.2	1251.5	144.3	86.8	65.4	59.8	60.3	58.1	47.9	36.1	34.4
70°	2435.3	828.7	94.1	66.0	52.4	46.2	49.6	50.2	40.6	29.3	28.2
72.5°	1785.3	489.3	66.0	49.0	38.3	32.1	40.6	41.7	32.7	22.0	20.9
75°	1017.5	232.3	49.6	35.5	23.7	22.5	31.6	31.6	22.5	14.7	13.5
77.5°	427.3	97.0	35.0	23.1	13.5	13.0	21.4	19.7	11.3	6.8	6.8
80°	123.5	43.4	18.6	11.3	5.6	5.1	8.5	6.2	2.8	1.1	1.1
82.5°	48.5	19.2	7.3	4.5	2.3	2.3	1.1	0.0	0.0	0.0	0.0
85°	28.7	7.9	3.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	1.7	1.1	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)