

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: P882228

Luminaire Tested: **NAV-SB2A-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882228  
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-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

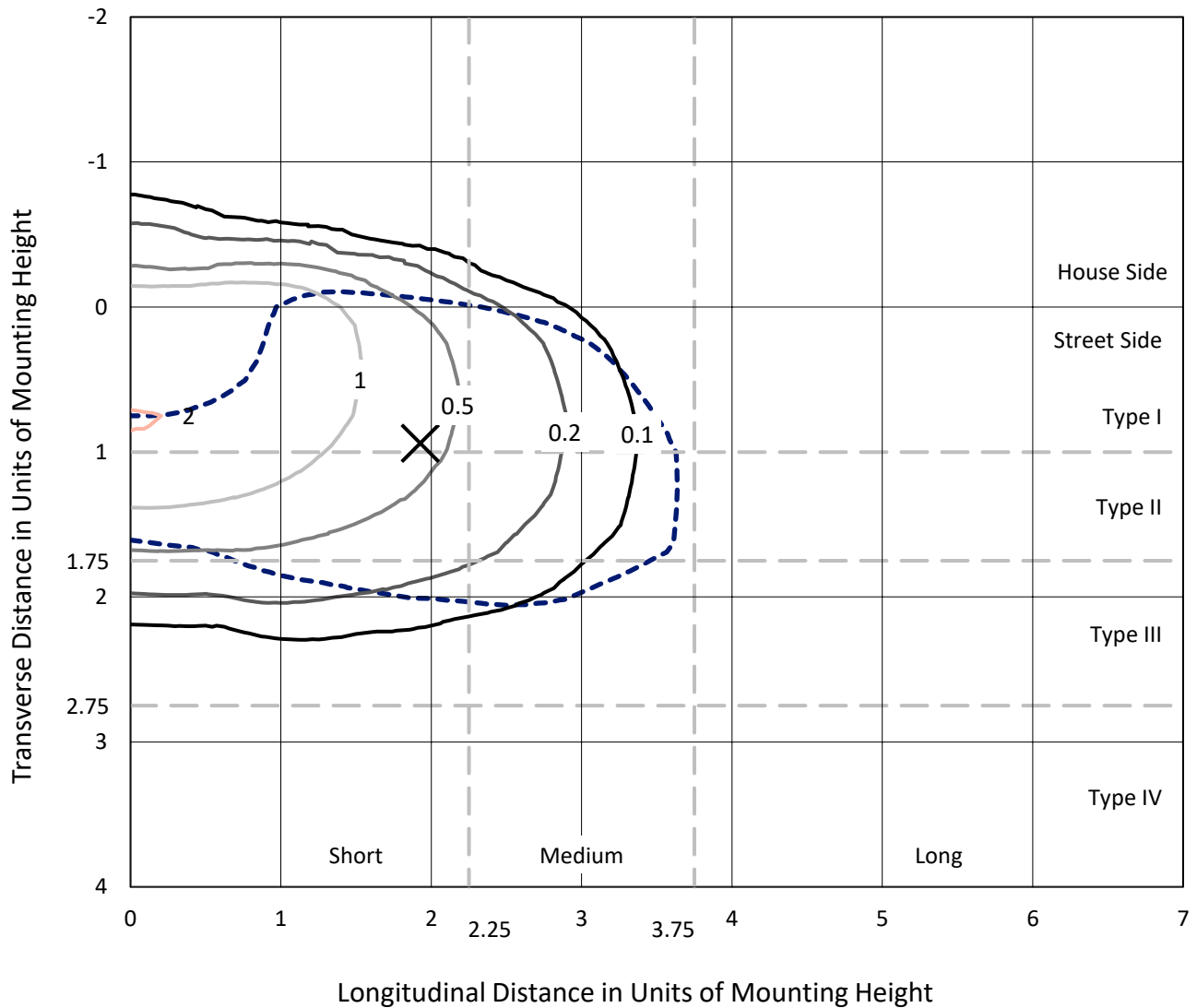
Lumens per Lamp: N/A  
Luminaire Lumens: 7058 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): 120.0  
Input Current (Ain): 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

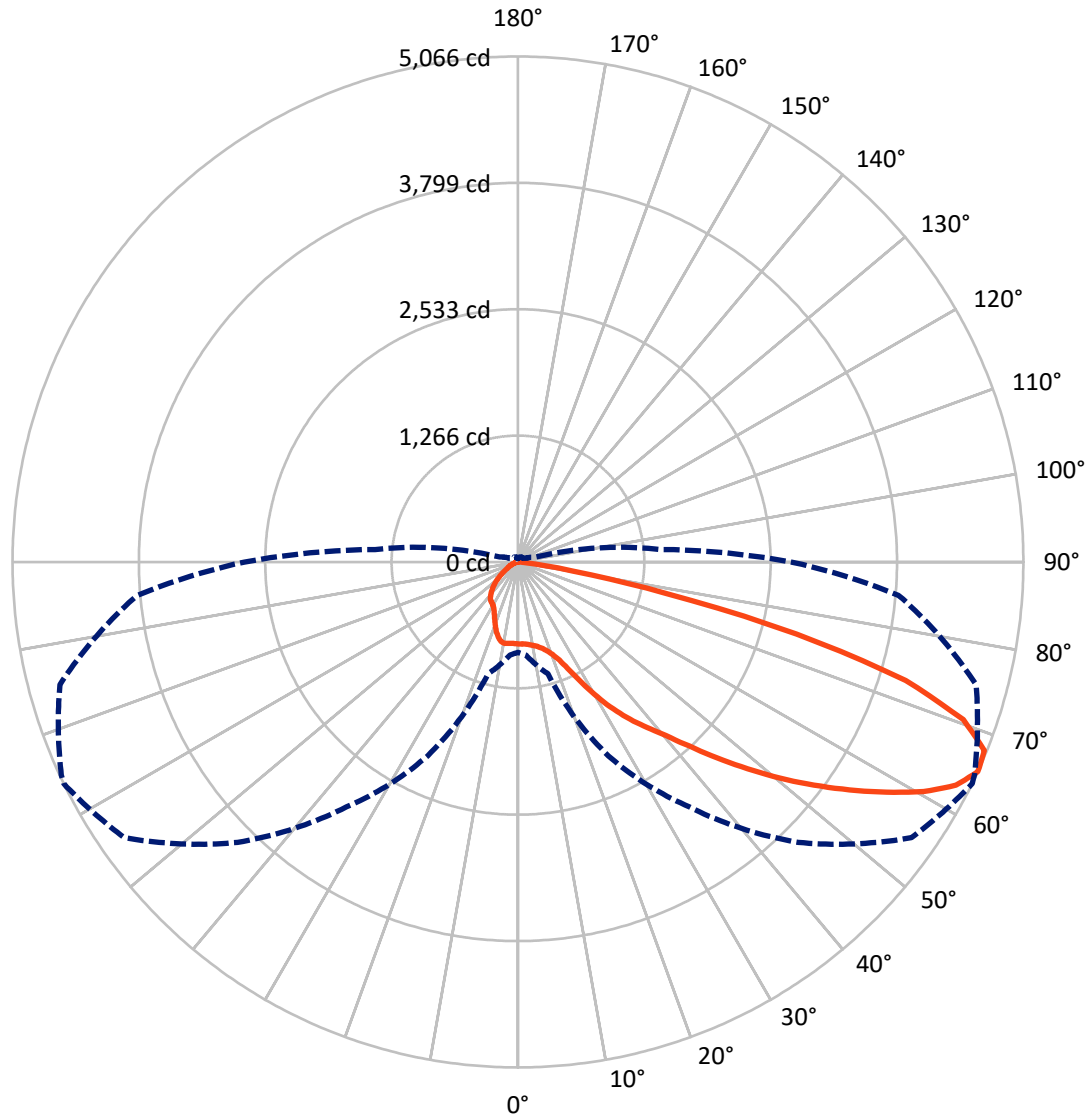
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	943.9	0.0	943.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	6114.1	0.0	6114.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	7058.0	0.0	7058.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.1
10°-20°	205.4	2.9
20°-30°	389.3	5.5
30°-40°	787.7	11.2
40°-50°	1341.8	19.0
50°-60°	1824.8	25.9
60°-70°	1713.6	24.3
70°-80°	686.5	9.7
80°-90°	33.3	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°	7058.0	100.0
0°-180°	7058.0	100.0

**Coefficient of Utilization**



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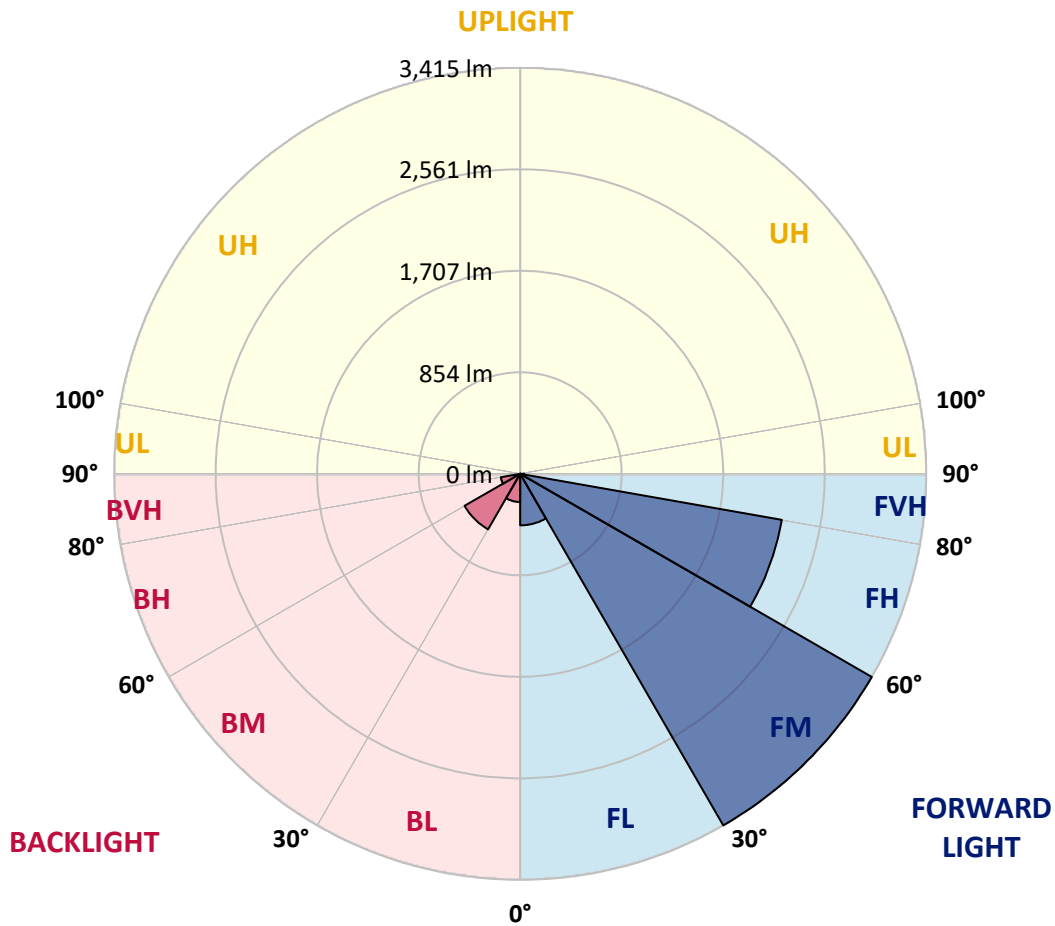
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.4	6.1			
FM (30°-60°)	3414.6	48.4			
FH (60°-80°)	2234.4	31.7			G2/5000
FVH (80°-90°)	31.6	0.4			G1/100
BL (0°-30°)	237.0	3.4	B1/500		
BM (30°-60°)	539.6	7.6	B1/1000		
BH (60°-80°)	165.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9
2.5°	818.1	823.8	822.3	820.9	820.4	821.4	821.9	821.4	821.4	821.4	821.9
5°	802.5	807.2	807.2	810.5	815.2	820.9	825.2	826.1	827.1	828.5	828.0
7.5°	772.7	776.4	779.3	790.2	802.0	817.1	829.9	836.5	837.5	842.7	844.6
10°	752.3	757.0	761.8	773.1	790.2	812.9	834.6	850.7	853.1	865.4	871.1
12.5°	751.4	756.1	762.2	774.5	794.4	818.6	845.0	868.2	872.5	890.5	902.3
15°	761.3	767.0	772.7	787.8	809.1	838.4	866.8	895.7	899.9	925.5	938.3
17.5°	781.6	789.2	793.5	808.6	831.3	864.0	901.4	934.5	938.3	968.1	984.2
20°	821.9	830.9	832.3	844.6	866.8	901.8	946.3	987.5	992.2	1026.3	1044.2
22.5°	905.1	917.9	906.6	912.7	932.6	967.6	1015.9	1067.9	1074.5	1113.3	1129.4
25°	1051.8	1069.8	1040.5	1030.1	1038.6	1075.0	1135.6	1201.3	1208.9	1240.1	1248.2
27.5°	1340.0	1316.8	1272.3	1228.8	1203.2	1224.0	1292.2	1373.6	1383.0	1413.3	1403.8
30°	1656.5	1636.2	1576.1	1479.5	1419.0	1415.7	1478.6	1569.4	1580.3	1609.2	1580.3
32.5°	1973.5	1954.1	1888.8	1770.1	1665.0	1613.0	1656.5	1757.3	1763.0	1781.4	1738.8
35°	2285.3	2265.5	2200.2	2078.6	1949.4	1831.1	1822.6	1936.1	1938.0	1957.4	1894.0
37.5°	2599.0	2582.5	2512.9	2393.7	2266.4	2103.2	2024.1	2105.5	2107.9	2126.8	2061.1
40°	2822.8	2829.9	2782.1	2689.9	2580.6	2402.2	2250.3	2285.8	2271.6	2303.3	2264.0
42.5°	3014.9	3029.1	2987.5	2941.1	2877.7	2720.6	2530.4	2524.3	2501.6	2518.6	2477.9
45°	3181.0	3192.8	3155.5	3144.6	3143.1	3032.9	2836.5	2799.6	2767.9	2764.6	2715.9
47.5°	3242.0	3264.7	3280.8	3317.3	3388.2	3341.9	3153.1	3095.8	3060.3	3034.3	2957.2
50°	3265.2	3289.4	3344.2	3450.2	3618.2	3638.1	3468.2	3403.9	3360.3	3313.0	3199.5
52.5°	3234.0	3277.1	3350.9	3529.2	3772.9	3875.6	3770.5	3714.2	3664.6	3587.4	3419.0
55°	3049.9	3093.0	3243.9	3528.3	3850.0	4042.1	4056.3	4031.3	3975.4	3853.8	3596.4
57.5°	2662.0	2725.8	2964.8	3408.1	3848.6	4185.5	4336.4	4354.4	4292.0	4117.8	3736.0
60°	2124.5	2211.0	2502.5	3141.7	3729.9	4263.1	4582.0	4671.9	4605.7	4378.1	3849.1
62.5°	1482.4	1582.7	1858.5	2724.4	3458.3	4207.3	4761.3	4927.4	4877.3	4610.9	3892.6
65°	904.2	936.4	1158.7	2143.9	2996.5	3973.5	4816.7	5065.6	5049.0	4753.3	3828.3
67.5°	602.3	629.3	693.2	1470.1	2326.0	3506.5	4684.2	5041.4	5046.2	4730.1	3592.6
70°	362.9	386.1	427.7	855.0	1507.5	2775.5	4274.0	4733.9	4761.3	4420.2	3146.0
72.5°	149.5	165.1	203.0	387.5	780.7	1761.5	3403.4	4064.4	4128.3	3716.6	2414.5
75°	84.7	92.7	119.2	194.5	338.8	820.9	2061.5	2885.3	2979.4	2561.6	1452.6
77.5°	56.3	60.1	77.1	125.9	190.7	280.1	881.0	1503.2	1683.0	1399.1	628.8
80°	37.9	41.2	53.0	84.2	124.0	120.2	280.6	556.9	685.1	480.7	153.3
82.5°	25.6	26.0	37.9	55.4	78.5	58.2	82.8	173.2	217.6	139.1	58.2
85°	14.7	14.2	27.9	32.2	35.0	24.1	25.1	52.0	68.1	58.7	33.1
87.5°	1.9	2.8	10.9	8.5	4.7	5.2	5.2	9.0	13.2	14.2	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°	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9	820.9
2.5°	821.9	821.4	820.0	818.6	815.2	813.3	814.3	813.3	812.9	813.3	815.2
5°	828.0	826.6	822.8	818.1	811.5	803.4	798.2	790.6	783.5	779.3	780.2
7.5°	844.6	843.2	838.0	824.7	803.4	769.8	739.1	712.1	691.7	679.9	680.4
10°	871.1	868.7	860.7	831.3	775.5	702.2	641.1	590.5	557.4	541.8	540.3
12.5°	902.3	899.5	885.3	825.2	722.5	608.0	523.8	467.5	436.7	423.0	421.6
15°	939.2	935.4	907.5	795.8	645.4	503.9	426.8	384.7	364.8	352.5	353.0
17.5°	985.1	978.5	924.1	751.8	561.6	424.4	367.2	335.5	318.0	306.1	305.2
20°	1044.7	1033.8	937.3	699.3	484.5	374.3	326.9	300.5	287.2	276.8	274.9
22.5°	1128.0	1112.4	953.4	642.5	430.1	339.7	297.1	277.7	266.9	255.0	253.1
25°	1231.1	1212.7	973.3	590.0	392.7	309.9	275.4	259.3	246.5	232.8	231.4
27.5°	1375.5	1342.3	996.9	547.0	360.5	284.4	255.5	237.5	222.9	211.5	209.1
30°	1536.3	1481.9	1017.7	520.9	331.2	260.7	229.5	211.5	197.8	189.7	188.3
32.5°	1688.7	1614.9	1031.5	509.6	304.7	233.7	201.1	181.7	171.3	168.9	170.3
35°	1832.5	1735.0	1030.1	498.7	281.1	206.8	173.2	153.3	145.3	146.7	146.7
37.5°	1998.1	1863.3	1020.1	481.7	261.7	182.2	149.0	131.5	124.4	124.9	126.8
40°	2190.7	2011.4	1014.0	449.5	240.4	159.5	129.2	115.0	109.8	107.9	107.4
42.5°	2396.0	2154.7	1014.9	413.1	213.9	139.1	115.4	103.6	98.9	97.5	97.0
45°	2602.3	2291.5	1016.3	375.2	185.9	123.5	105.5	95.6	92.7	90.8	90.8
47.5°	2796.3	2407.9	989.8	334.5	158.5	111.7	97.5	90.8	88.5	86.1	86.1
50°	2977.1	2485.5	926.0	287.2	136.7	102.2	91.3	86.6	84.2	81.9	81.9
52.5°	3117.6	2497.8	820.4	238.5	121.6	95.1	87.5	83.3	80.4	78.1	77.6
55°	3180.1	2420.6	670.5	193.0	109.8	89.0	83.7	79.5	76.2	73.8	73.3
57.5°	3164.0	2258.4	522.8	155.2	98.4	82.8	79.0	76.2	72.4	68.6	68.1
60°	3085.0	2041.2	394.1	129.2	88.0	76.2	73.8	71.4	66.2	60.6	59.6
62.5°	2948.2	1768.2	281.1	106.9	76.7	68.6	67.7	65.8	58.2	47.8	46.8
65°	2739.1	1436.5	189.3	89.0	65.8	60.1	60.6	57.3	47.3	35.5	34.5
67.5°	2433.4	1050.4	121.1	72.9	54.9	50.2	50.6	48.7	40.2	30.3	28.9
70°	2044.0	695.5	79.0	55.4	44.0	38.8	41.6	42.1	34.1	24.6	23.7
72.5°	1498.5	410.7	55.4	41.2	32.2	27.0	34.1	35.0	27.4	18.5	17.5
75°	854.0	194.9	41.6	29.8	19.9	18.9	26.5	26.5	18.9	12.3	11.4
77.5°	358.6	81.4	29.3	19.4	11.4	10.9	18.0	16.6	9.5	5.7	5.7
80°	103.6	36.4	15.6	9.5	4.7	4.3	7.1	5.2	2.4	0.9	0.9
82.5°	40.7	16.1	6.2	3.8	1.9	1.9	0.9	0.0	0.0	0.0	0.0
85°	24.1	6.6	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	1.4	0.9	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)