

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: P881888

Luminaire Tested: **NAV-SB1C-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881888  
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-SB1C-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

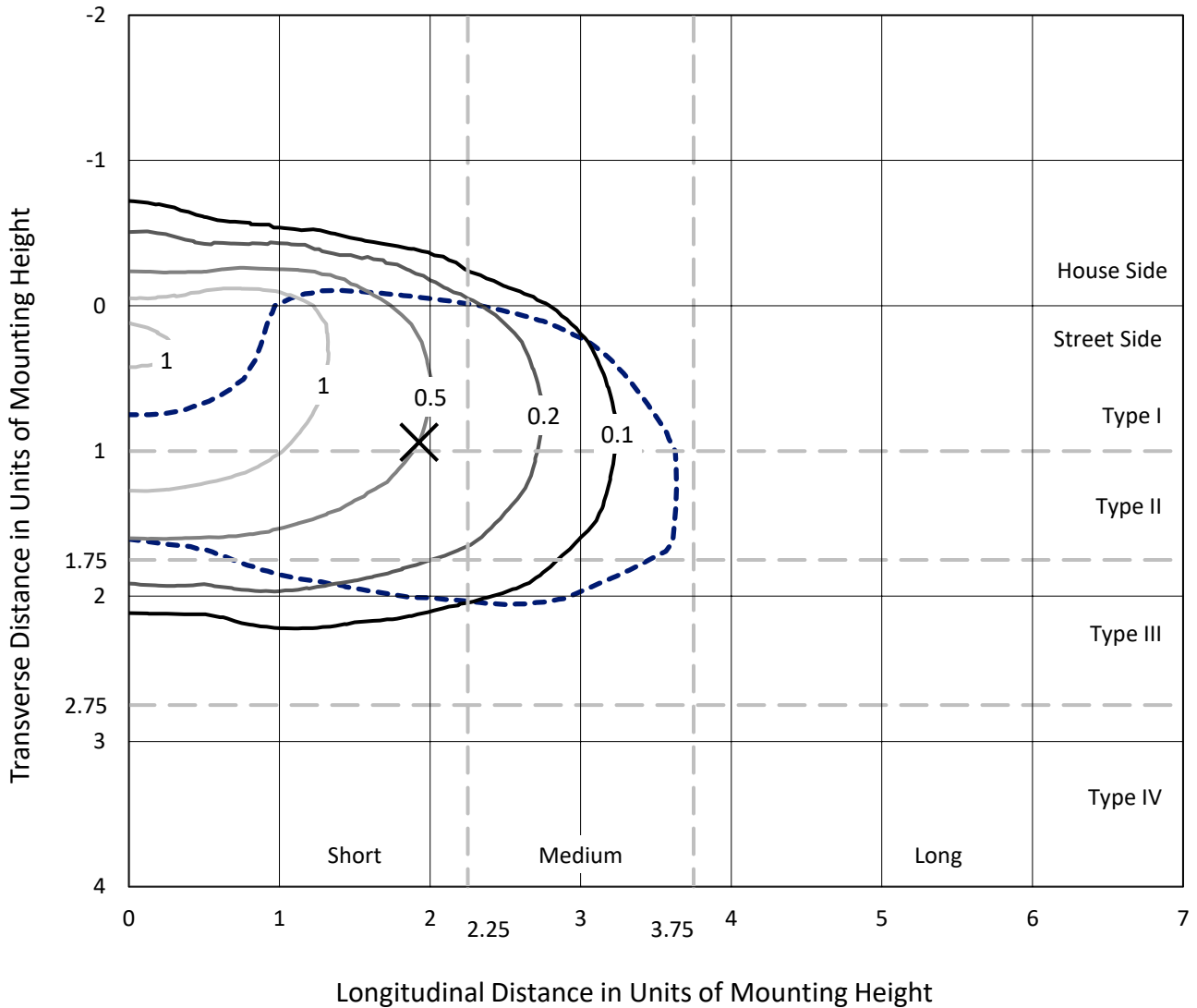
Lumens per Lamp: N/A  
Luminaire Lumens: 5787 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

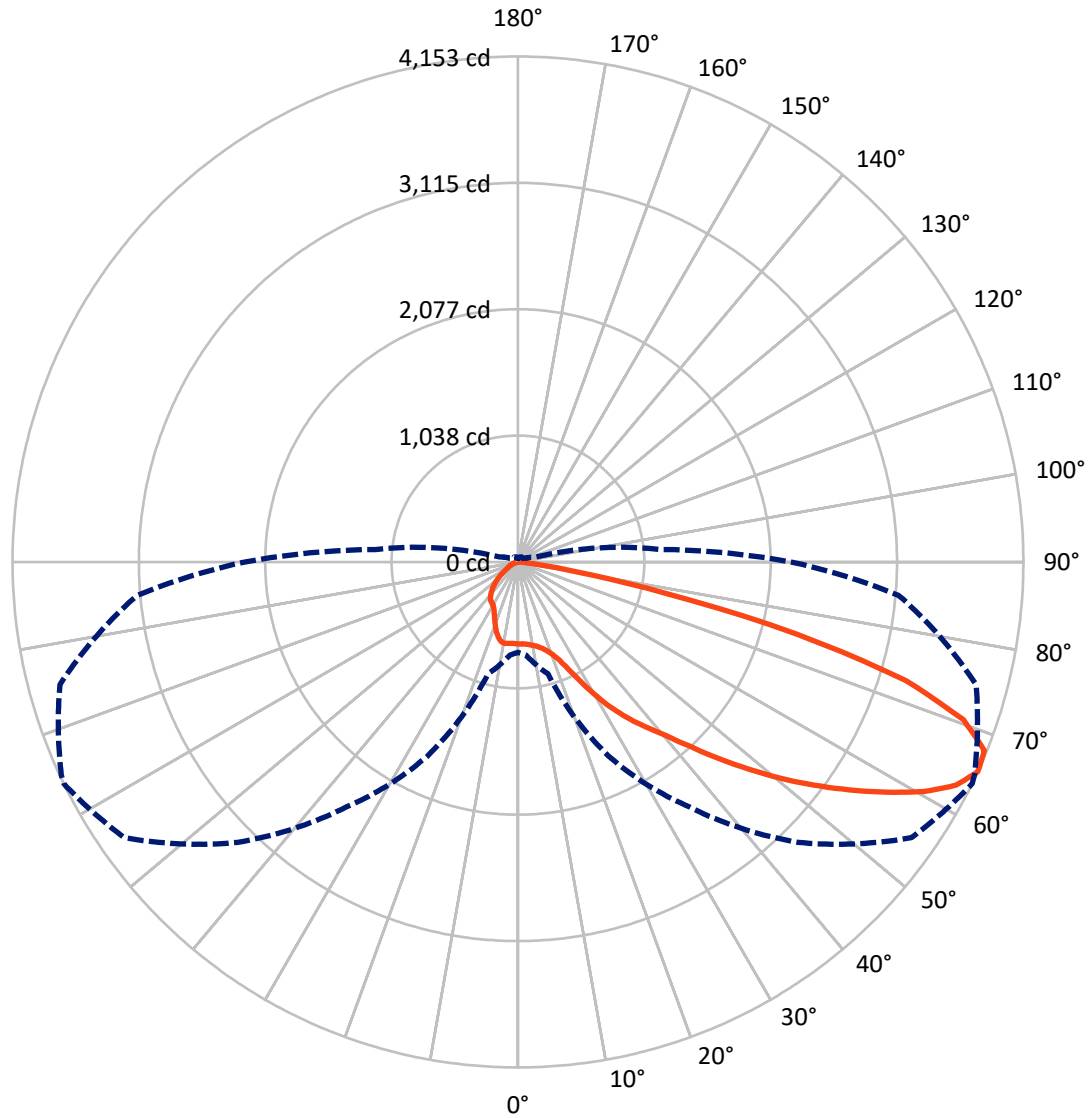
✕ Max cd  
 - - - 1/2 Max cd



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	773.9	0.0	773.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5013.1	0.0	5013.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5787.0	0.0	5787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	1.1
10°-20°	168.4	2.9
20°-30°	319.2	5.5
30°-40°	645.8	11.2
40°-50°	1100.2	19.0
50°-60°	1496.2	25.9
60°-70°	1405.0	24.3
70°-80°	562.9	9.7
80°-90°	27.3	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°	5787.0	100.0
0°-180°	5787.0	100.0

**Coefficient of Utilization**



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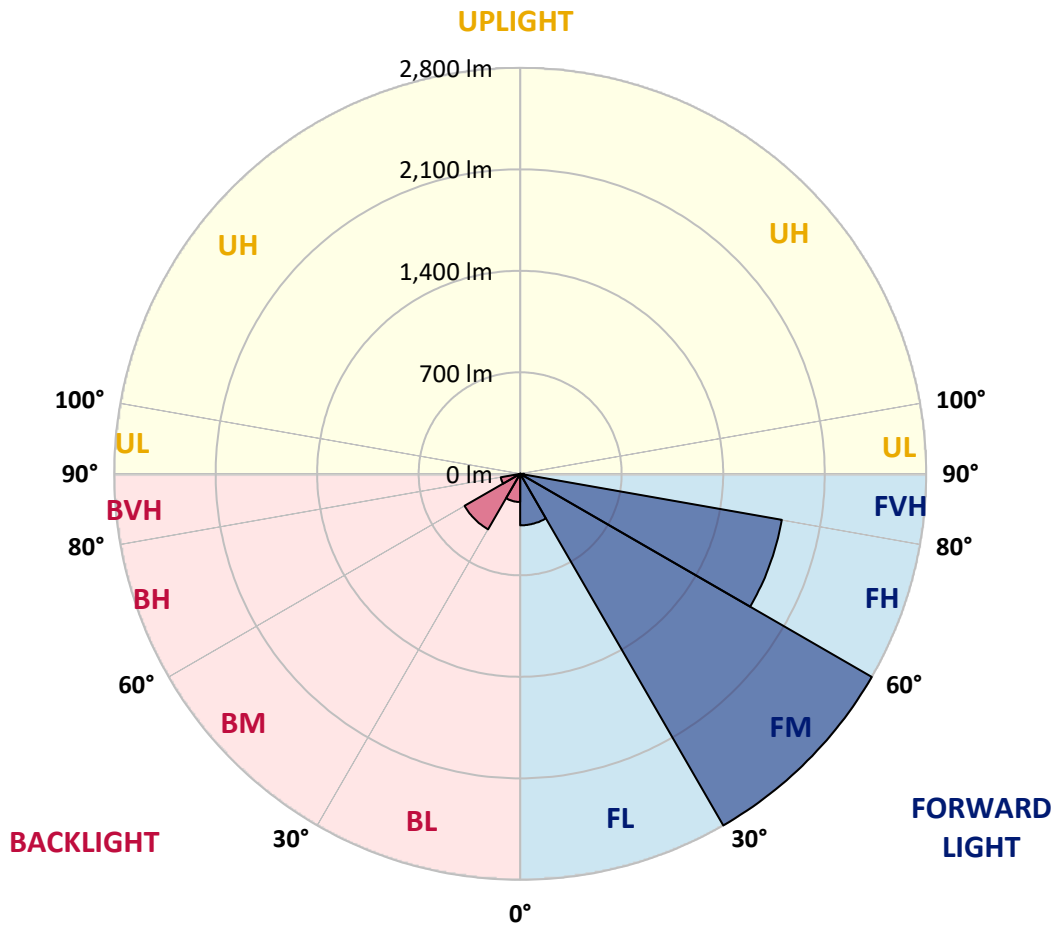
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.4	6.1			
FM (30°-60°)	2799.7	48.4			
FH (60°-80°)	1832.0	31.7			G2/5000
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	194.3	3.4	B1/500		
BM (30°-60°)	442.4	7.6	B1/1000		
BH (60°-80°)	135.8	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°	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1
2.5°	670.8	675.4	674.3	673.1	672.7	673.5	673.9	673.5	673.5	673.5	673.9
5°	658.0	661.8	661.8	664.6	668.4	673.1	676.6	677.4	678.1	679.3	678.9
7.5°	633.5	636.6	638.9	647.9	657.6	670.0	680.5	685.9	686.7	690.9	692.5
10°	616.8	620.7	624.6	633.9	647.9	666.5	684.3	697.5	699.5	709.6	714.2
12.5°	616.1	619.9	625.0	635.1	651.4	671.1	692.9	711.9	715.4	730.1	739.8
15°	624.2	628.9	633.5	645.9	663.4	687.4	710.7	734.4	737.9	758.8	769.3
17.5°	640.9	647.1	650.6	663.0	681.6	708.4	739.0	766.2	769.3	793.7	806.9
20°	673.9	681.2	682.4	692.5	710.7	739.4	775.9	809.6	813.5	841.5	856.2
22.5°	742.1	752.6	743.3	748.3	764.6	793.4	832.9	875.6	881.0	912.8	926.0
25°	862.4	877.1	853.1	844.6	851.5	881.4	931.1	985.0	991.2	1016.8	1023.4
27.5°	1098.7	1079.7	1043.2	1007.5	986.5	1003.6	1059.5	1126.2	1134.0	1158.8	1151.0
30°	1358.2	1341.5	1292.3	1213.1	1163.5	1160.7	1212.3	1286.8	1295.7	1319.4	1295.7
32.5°	1618.1	1602.2	1548.7	1451.3	1365.2	1322.5	1358.2	1440.8	1445.5	1460.6	1425.7
35°	1873.8	1857.5	1804.0	1704.3	1598.3	1501.4	1494.4	1587.5	1589.0	1604.9	1553.0
37.5°	2131.0	2117.4	2060.4	1962.6	1858.3	1724.4	1659.6	1726.4	1728.3	1743.8	1689.9
40°	2314.5	2320.3	2281.1	2205.5	2115.9	1969.6	1845.1	1874.2	1862.5	1888.5	1856.3
42.5°	2472.0	2483.6	2449.5	2411.5	2359.5	2230.7	2074.7	2069.7	2051.1	2065.0	2031.7
45°	2608.2	2617.9	2587.2	2578.3	2577.1	2486.7	2325.7	2295.5	2269.5	2266.8	2226.8
47.5°	2658.2	2676.8	2690.0	2719.9	2778.1	2740.1	2585.3	2538.3	2509.2	2487.9	2424.7
50°	2677.2	2697.0	2742.0	2828.9	2966.6	2982.9	2843.7	2790.9	2755.2	2716.4	2623.3
52.5°	2651.6	2686.9	2747.4	2893.7	3093.5	3177.7	3091.6	3045.4	3004.7	2941.4	2803.3
55°	2500.7	2536.0	2659.8	2892.9	3156.7	3314.2	3325.9	3305.3	3259.5	3159.8	2948.8
57.5°	2182.6	2235.0	2430.9	2794.4	3155.6	3431.8	3555.5	3570.3	3519.1	3376.3	3063.2
60°	1741.9	1812.9	2051.9	2576.0	3058.2	3495.4	3756.9	3830.6	3776.3	3589.7	3155.9
62.5°	1215.4	1297.7	1523.9	2233.8	2835.5	3449.6	3903.9	4040.1	3999.0	3780.5	3191.6
65°	741.4	767.7	950.1	1757.8	2456.9	3258.0	3949.3	4153.4	4139.8	3897.3	3138.9
67.5°	493.9	516.0	568.3	1205.4	1907.1	2875.1	3840.7	4133.6	4137.5	3878.3	2945.7
70°	297.6	316.6	350.7	701.0	1236.0	2275.7	3504.3	3881.4	3903.9	3624.2	2579.5
72.5°	122.6	135.4	166.4	317.7	640.1	1444.3	2790.5	3332.5	3384.8	3047.3	1979.7
75°	69.4	76.0	97.8	159.4	277.8	673.1	1690.3	2365.7	2442.9	2100.3	1191.0
77.5°	46.2	49.3	63.2	103.2	156.3	229.7	722.4	1232.5	1379.9	1147.2	515.6
80°	31.0	33.8	43.5	69.1	101.6	98.5	230.1	456.6	561.7	394.2	125.7
82.5°	20.9	21.3	31.0	45.4	64.4	47.7	67.9	142.0	178.5	114.1	47.7
85°	12.0	11.6	22.9	26.4	28.7	19.8	20.6	42.7	55.9	48.1	27.2
87.5°	1.6	2.3	8.9	7.0	3.9	4.3	4.3	7.4	10.9	11.6	5.8
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°	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1
2.5°	673.9	673.5	672.3	671.1	668.4	666.9	667.7	666.9	666.5	666.9	668.4
5°	678.9	677.7	674.6	670.8	665.3	658.7	654.5	648.3	642.4	638.9	639.7
7.5°	692.5	691.3	687.1	676.2	658.7	631.2	606.0	583.9	567.2	557.5	557.9
10°	714.2	712.3	705.7	681.6	635.8	575.7	525.7	484.2	457.0	444.2	443.0
12.5°	739.8	737.5	725.8	676.6	592.4	498.5	429.5	383.3	358.1	346.8	345.7
15°	770.1	767.0	744.1	652.5	529.2	413.2	349.9	315.4	299.1	289.0	289.4
17.5°	807.7	802.3	757.7	616.4	460.5	348.0	301.0	275.1	260.7	251.0	250.2
20°	856.6	847.7	768.5	573.4	397.3	306.9	268.1	246.3	235.5	226.9	225.4
22.5°	924.9	912.1	781.7	526.8	352.6	278.5	243.6	227.7	218.8	209.1	207.6
25°	1009.4	994.3	798.0	483.8	322.0	254.1	225.8	212.6	202.1	190.9	189.7
27.5°	1127.8	1100.6	817.4	448.5	295.6	233.2	209.5	194.7	182.7	173.4	171.5
30°	1259.7	1215.1	834.5	427.1	271.6	213.8	188.2	173.4	162.2	155.6	154.4
32.5°	1384.6	1324.1	845.7	417.8	249.8	191.6	164.9	149.0	140.4	138.5	139.7
35°	1502.5	1422.6	844.6	408.9	230.4	169.5	142.0	125.7	119.1	120.3	120.3
37.5°	1638.3	1527.7	836.4	394.9	214.5	149.4	122.2	107.8	102.0	102.4	104.0
40°	1796.2	1649.2	831.4	368.5	197.1	130.7	105.9	94.3	90.0	88.5	88.1
42.5°	1964.6	1766.7	832.1	338.7	175.4	114.1	94.7	85.0	81.1	79.9	79.5
45°	2133.7	1878.8	833.3	307.6	152.5	101.3	86.5	78.4	76.0	74.5	74.5
47.5°	2292.8	1974.3	811.6	274.3	130.0	91.6	79.9	74.5	72.5	70.6	70.6
50°	2441.0	2037.9	759.2	235.5	112.1	83.8	74.9	71.0	69.1	67.1	67.1
52.5°	2556.2	2048.0	672.7	195.5	99.7	78.0	71.8	68.3	66.0	64.0	63.6
55°	2607.4	1984.7	549.7	158.3	90.0	72.9	68.7	65.2	62.5	60.5	60.1
57.5°	2594.2	1851.7	428.7	127.2	80.7	67.9	64.8	62.5	59.4	56.3	55.9
60°	2529.4	1673.6	323.2	105.9	72.2	62.5	60.5	58.6	54.3	49.7	48.9
62.5°	2417.3	1449.8	230.4	87.7	62.8	56.3	55.5	53.9	47.7	39.2	38.4
65°	2245.8	1177.8	155.2	72.9	53.9	49.3	49.7	46.9	38.8	29.1	28.3
67.5°	1995.2	861.2	99.3	59.7	45.0	41.1	41.5	40.0	33.0	24.8	23.7
70°	1675.9	570.3	64.8	45.4	36.1	31.8	34.1	34.5	27.9	20.2	19.4
72.5°	1228.6	336.7	45.4	33.8	26.4	22.1	27.9	28.7	22.5	15.1	14.4
75°	700.2	159.8	34.1	24.4	16.3	15.5	21.7	21.7	15.5	10.1	9.3
77.5°	294.1	66.7	24.1	15.9	9.3	8.9	14.7	13.6	7.8	4.7	4.7
80°	85.0	29.9	12.8	7.8	3.9	3.5	5.8	4.3	1.9	0.8	0.8
82.5°	33.4	13.2	5.0	3.1	1.6	1.6	0.8	0.0	0.0	0.0	0.0
85°	19.8	5.4	2.3	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.2	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)