

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: P882548

Luminaire Tested: **NAV-SB2C-722-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882548  
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-SB2C-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

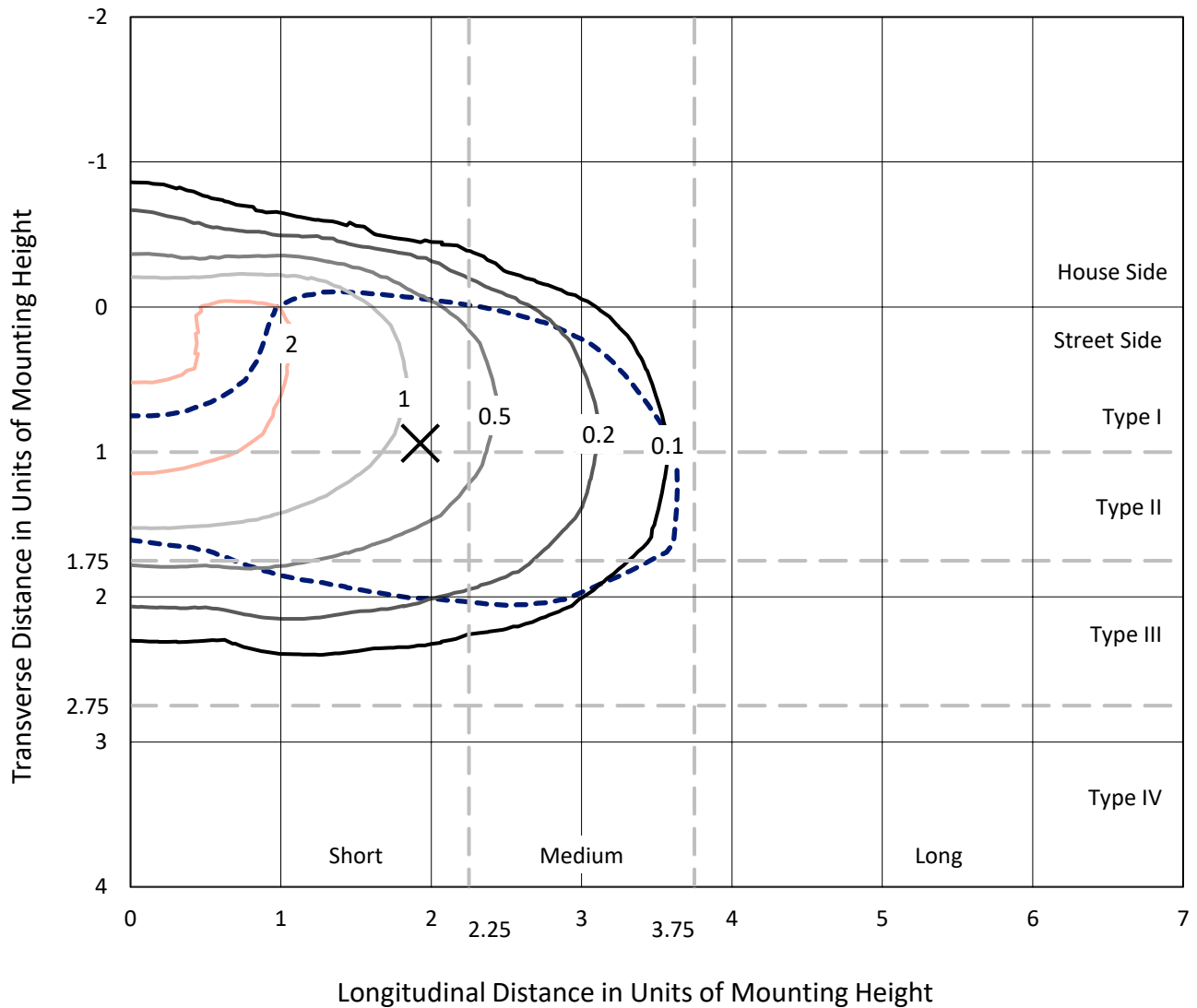
Lumens per Lamp: N/A  
Luminaire Lumens: 9539 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

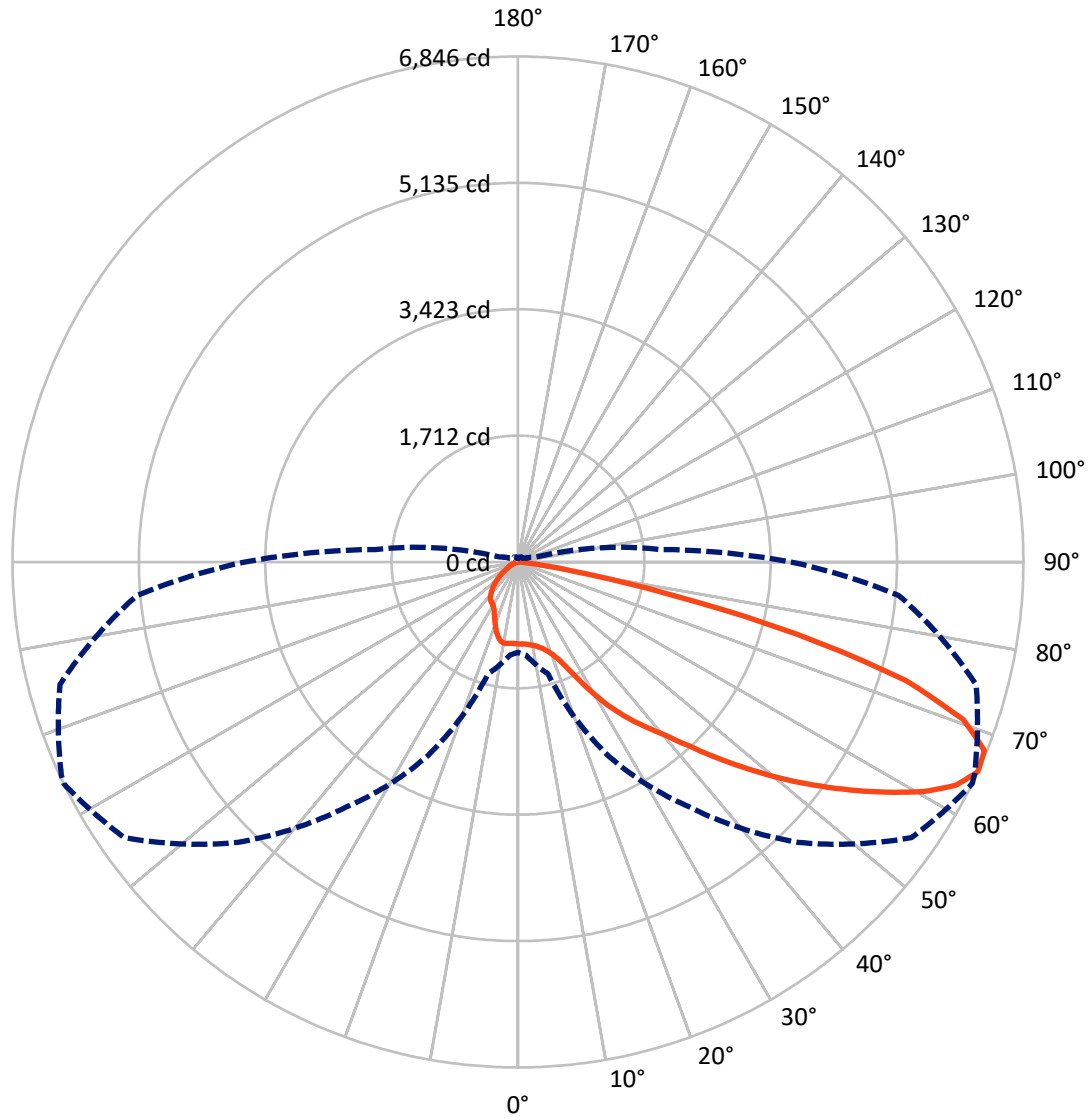
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1275.6	0.0	1275.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	8263.3	0.0	8263.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	9539.0	0.0	9539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	1.1
10°-20°	277.6	2.9
20°-30°	526.1	5.5
30°-40°	1064.6	11.2
40°-50°	1813.5	19.0
50°-60°	2466.2	25.9
60°-70°	2315.9	24.3
70°-80°	927.8	9.7
80°-90°	45.0	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°	9539.0	100.0
0°-180°	9539.0	100.0

**Coefficient of Utilization**



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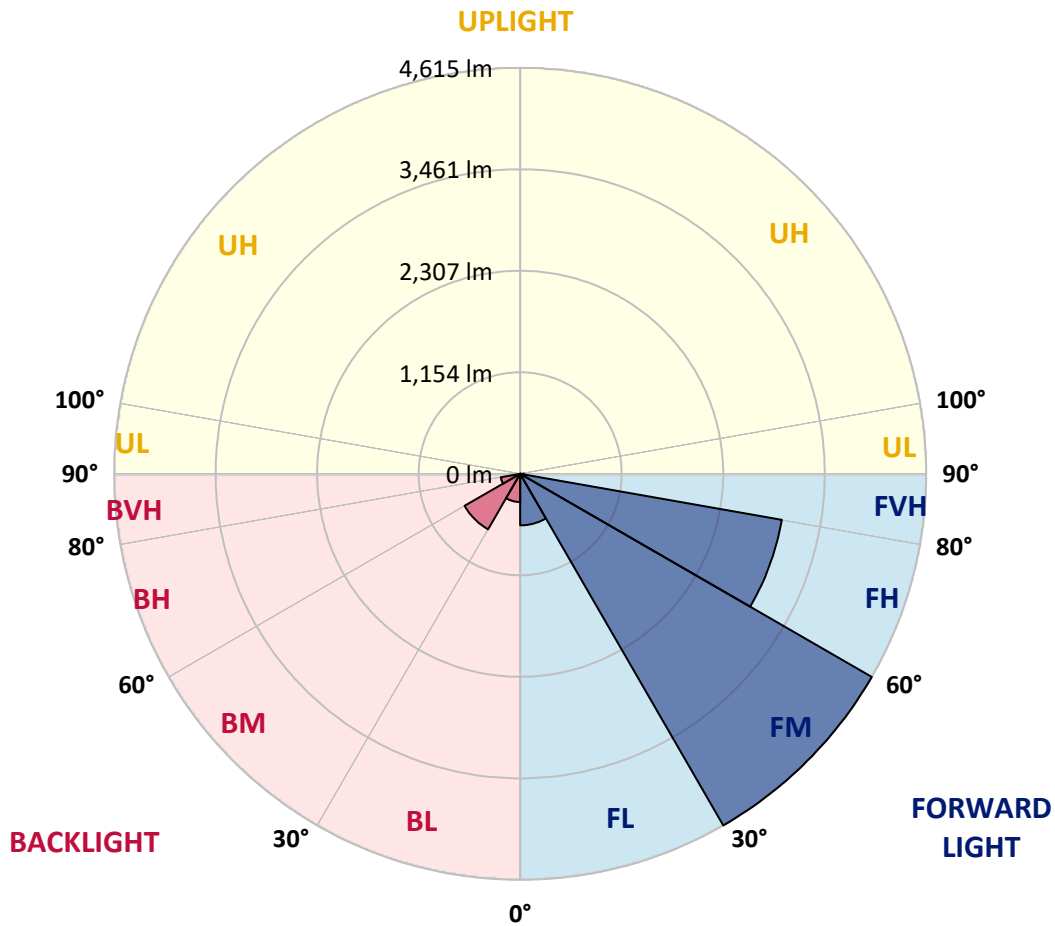
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.8	6.1			
FM (30°-60°)	4615.0	48.4			
FH (60°-80°)	3019.8	31.7			G2/5000
FVH (80°-90°)	42.8	0.4			G1/100
BL (0°-30°)	320.3	3.4	B1/500		
BM (30°-60°)	729.3	7.6	B1/1000		
BH (60°-80°)	223.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1105.6	1113.3	1111.4	1109.5	1108.8	1110.1	1110.8	1110.1	1110.1	1110.1	1110.8
5°	1084.5	1090.9	1090.9	1095.4	1101.8	1109.5	1115.2	1116.5	1117.8	1119.7	1119.1
7.5°	1044.3	1049.4	1053.2	1067.9	1083.9	1104.4	1121.6	1130.6	1131.9	1138.9	1141.5
10°	1016.8	1023.2	1029.6	1044.9	1067.9	1098.6	1128.0	1149.8	1153.0	1169.6	1177.3
12.5°	1015.5	1021.9	1030.2	1046.8	1073.7	1106.3	1142.1	1173.4	1179.2	1203.5	1219.5
15°	1028.9	1036.6	1044.3	1064.7	1093.5	1133.1	1171.5	1210.5	1216.3	1250.8	1268.1
17.5°	1056.4	1066.6	1072.4	1092.9	1123.6	1167.7	1218.2	1263.0	1268.1	1308.4	1330.1
20°	1110.8	1122.9	1124.8	1141.5	1171.5	1218.8	1278.9	1334.6	1341.0	1387.0	1411.3
22.5°	1223.3	1240.6	1225.2	1233.5	1260.4	1307.7	1372.9	1443.3	1452.2	1504.7	1526.4
25°	1421.5	1445.8	1406.2	1392.1	1403.6	1452.9	1534.7	1623.6	1633.9	1676.1	1686.9
27.5°	1811.0	1779.7	1719.5	1660.7	1626.2	1654.3	1746.4	1856.4	1869.2	1910.1	1897.3
30°	2238.8	2211.3	2130.1	1999.6	1917.8	1913.3	1998.4	2121.1	2135.8	2174.8	2135.8
32.5°	2667.2	2641.0	2552.8	2392.3	2250.3	2180.0	2238.8	2375.0	2382.7	2407.6	2350.1
35°	3088.7	3061.8	2973.5	2809.2	2634.6	2474.8	2463.2	2616.7	2619.3	2645.5	2559.8
37.5°	3512.6	3490.2	3396.2	3235.1	3063.1	2842.5	2735.7	2845.7	2848.8	2874.4	2785.5
40°	3815.1	3824.7	3760.1	3635.4	3487.7	3246.6	3041.3	3089.3	3070.1	3113.0	3059.9
42.5°	4074.7	4093.9	4037.6	3975.0	3889.3	3677.0	3419.9	3411.6	3380.9	3403.9	3348.9
45°	4299.2	4315.2	4264.6	4249.9	4248.0	4099.0	3833.6	3783.8	3740.9	3736.4	3670.6
47.5°	4381.7	4412.4	4434.1	4483.3	4579.3	4516.6	4261.4	4184.1	4136.1	4100.9	3996.7
50°	4413.0	4445.6	4519.8	4663.0	4890.0	4916.9	4687.3	4600.4	4541.5	4477.6	4324.1
52.5°	4370.8	4429.0	4528.7	4769.8	5099.2	5237.9	5096.0	5019.9	4952.7	4848.5	4620.8
55°	4122.0	4180.2	4384.2	4768.5	5203.4	5463.0	5482.2	5448.3	5372.8	5208.5	4860.6
57.5°	3597.7	3684.0	4006.9	4606.1	5201.5	5656.8	5860.8	5885.1	5800.7	5565.3	5049.3
60°	2871.2	2988.3	3382.2	4246.1	5041.0	5761.6	6192.7	6314.2	6224.6	5917.0	5202.1
62.5°	2003.5	2139.0	2511.8	3682.1	4673.9	5686.2	6435.0	6659.5	6591.7	6231.7	5260.9
65°	1222.0	1265.5	1566.1	2897.4	4049.8	5370.3	6509.8	6846.2	6823.8	6424.1	5174.0
67.5°	814.0	850.5	936.8	1986.8	3143.6	4739.1	6330.8	6813.6	6820.0	6392.8	4855.5
70°	490.5	521.8	578.1	1155.5	2037.4	3751.1	5776.4	6397.9	6435.0	5974.0	4251.9
72.5°	202.1	223.2	274.3	523.7	1055.1	2380.8	4599.7	5493.1	5579.4	5023.1	3263.2
75°	114.5	125.3	161.1	262.8	457.9	1109.5	2786.2	3899.5	4026.8	3462.1	1963.2
77.5°	76.1	81.2	104.2	170.1	257.7	378.6	1190.7	2031.6	2274.6	1890.9	849.9
80°	51.2	55.6	71.6	113.8	167.5	162.4	379.2	752.7	926.0	649.7	207.2
82.5°	34.5	35.2	51.2	74.8	106.2	78.7	111.9	234.0	294.2	188.0	78.7
85°	19.8	19.2	37.7	43.5	47.3	32.6	33.9	70.3	92.1	79.3	44.8
87.5°	2.6	3.8	14.7	11.5	6.4	7.0	7.0	12.1	17.9	19.2	9.6
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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1110.8	1110.1	1108.2	1106.3	1101.8	1099.3	1100.5	1099.3	1098.6	1099.3	1101.8
5°	1119.1	1117.2	1112.0	1105.6	1096.7	1085.8	1078.8	1068.6	1059.0	1053.2	1054.5
7.5°	1141.5	1139.5	1132.5	1114.6	1085.8	1040.4	998.9	962.4	934.9	918.9	919.6
10°	1177.3	1174.1	1163.2	1123.6	1048.1	949.0	866.5	798.1	753.3	732.2	730.3
12.5°	1219.5	1215.6	1196.5	1115.2	976.5	821.7	707.9	631.8	590.2	571.7	569.8
15°	1269.4	1264.2	1226.5	1075.6	872.2	681.0	576.8	519.9	493.0	476.4	477.0
17.5°	1331.4	1322.4	1248.9	1016.1	759.1	573.6	496.2	453.4	429.7	413.7	412.5
20°	1412.0	1397.2	1266.8	945.1	654.8	505.8	441.9	406.1	388.2	374.1	371.5
22.5°	1524.5	1503.4	1288.5	868.4	581.3	459.1	401.6	375.4	360.7	344.7	342.1
25°	1663.9	1639.0	1315.4	797.4	530.8	418.9	372.2	350.4	333.2	314.6	312.7
27.5°	1858.9	1814.2	1347.4	739.2	487.3	384.3	345.3	321.0	301.2	285.8	282.6
30°	2076.4	2002.8	1375.5	704.1	447.6	352.3	310.1	285.8	267.3	256.4	254.5
32.5°	2282.3	2182.5	1394.1	688.7	411.8	315.9	271.8	245.6	231.5	228.3	230.2
35°	2476.7	2344.9	1392.1	674.0	379.8	279.4	234.0	207.2	196.3	198.2	198.2
37.5°	2700.5	2518.2	1378.7	651.0	353.6	246.2	201.4	177.8	168.2	168.8	171.4
40°	2960.8	2718.4	1370.4	607.5	324.9	215.5	174.6	155.4	148.4	145.8	145.2
42.5°	3238.3	2912.2	1371.7	558.3	289.0	188.0	156.0	140.0	133.6	131.7	131.1
45°	3517.1	3097.0	1373.6	507.1	251.3	166.9	142.6	129.2	125.3	122.8	122.8
47.5°	3779.3	3254.3	1337.8	452.1	214.2	150.9	131.7	122.8	119.6	116.4	116.4
50°	4023.6	3359.1	1251.4	388.2	184.8	138.1	123.4	117.0	113.8	110.6	110.6
52.5°	4213.5	3375.8	1108.8	322.3	164.3	128.5	118.3	112.5	108.7	105.5	104.9
55°	4297.9	3271.5	906.1	260.9	148.4	120.2	113.2	107.4	103.0	99.8	99.1
57.5°	4276.2	3052.2	706.6	209.7	133.0	111.9	106.8	103.0	97.8	92.7	92.1
60°	4169.4	2758.7	532.7	174.6	118.9	103.0	99.8	96.6	89.5	81.9	80.6
62.5°	3984.6	2389.7	379.8	144.5	103.6	92.7	91.4	88.9	78.7	64.6	63.3
65°	3701.9	1941.4	255.8	120.2	88.9	81.2	81.9	77.4	63.9	48.0	46.7
67.5°	3288.8	1419.6	163.7	98.5	74.2	67.8	68.4	65.9	54.4	40.9	39.0
70°	2762.5	940.0	106.8	74.8	59.5	52.4	56.3	56.9	46.0	33.3	32.0
72.5°	2025.2	555.1	74.8	55.6	43.5	36.4	46.0	47.3	37.1	24.9	23.7
75°	1154.2	263.5	56.3	40.3	26.9	25.6	35.8	35.8	25.6	16.6	15.3
77.5°	484.7	110.0	39.6	26.2	15.3	14.7	24.3	22.4	12.8	7.7	7.7
80°	140.0	49.2	21.1	12.8	6.4	5.8	9.6	7.0	3.2	1.3	1.3
82.5°	55.0	21.7	8.3	5.1	2.6	2.6	1.3	0.0	0.0	0.0	0.0
85°	32.6	9.0	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	1.9	1.3	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)