

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: P962372

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
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: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9945.6 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

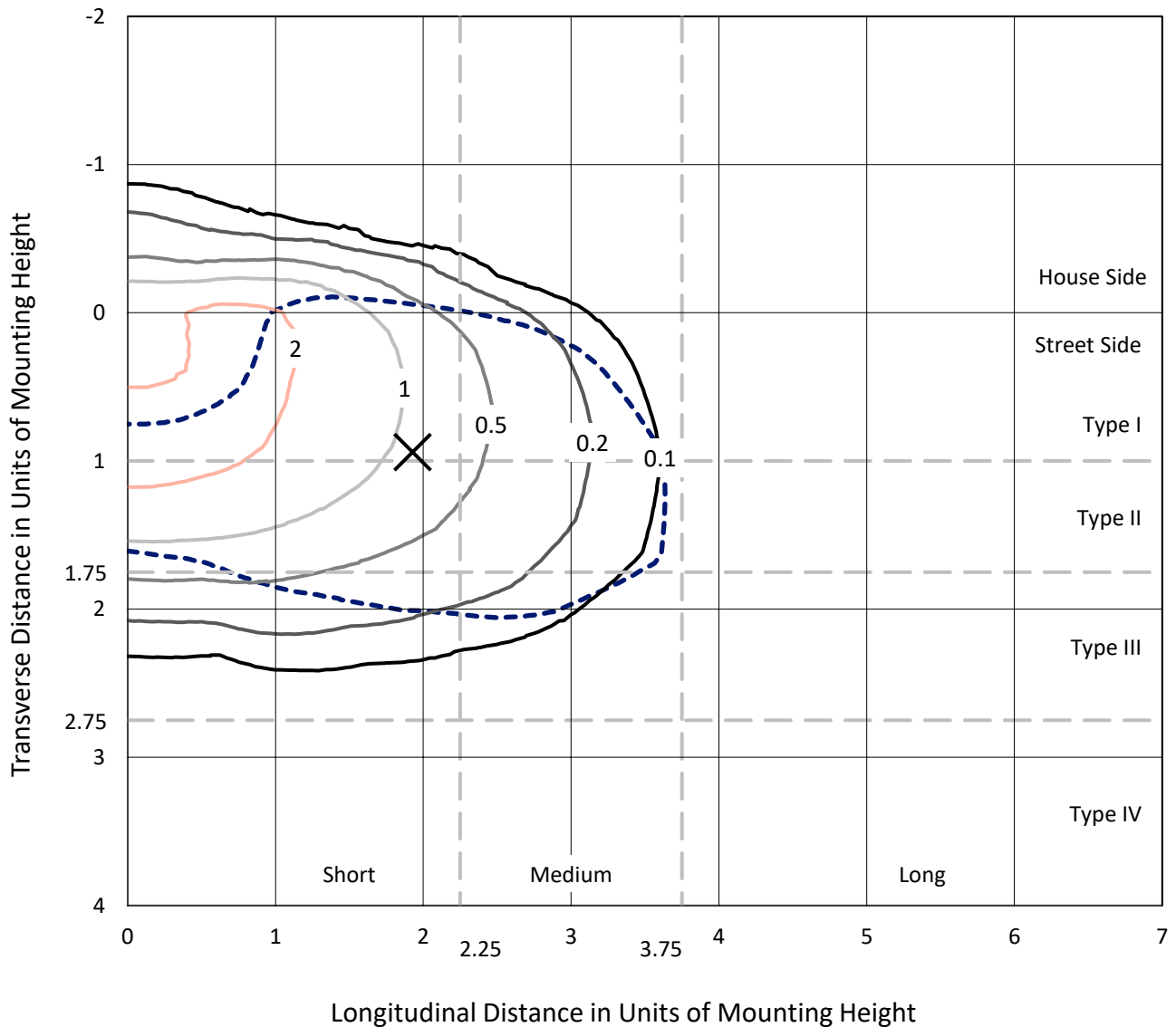
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

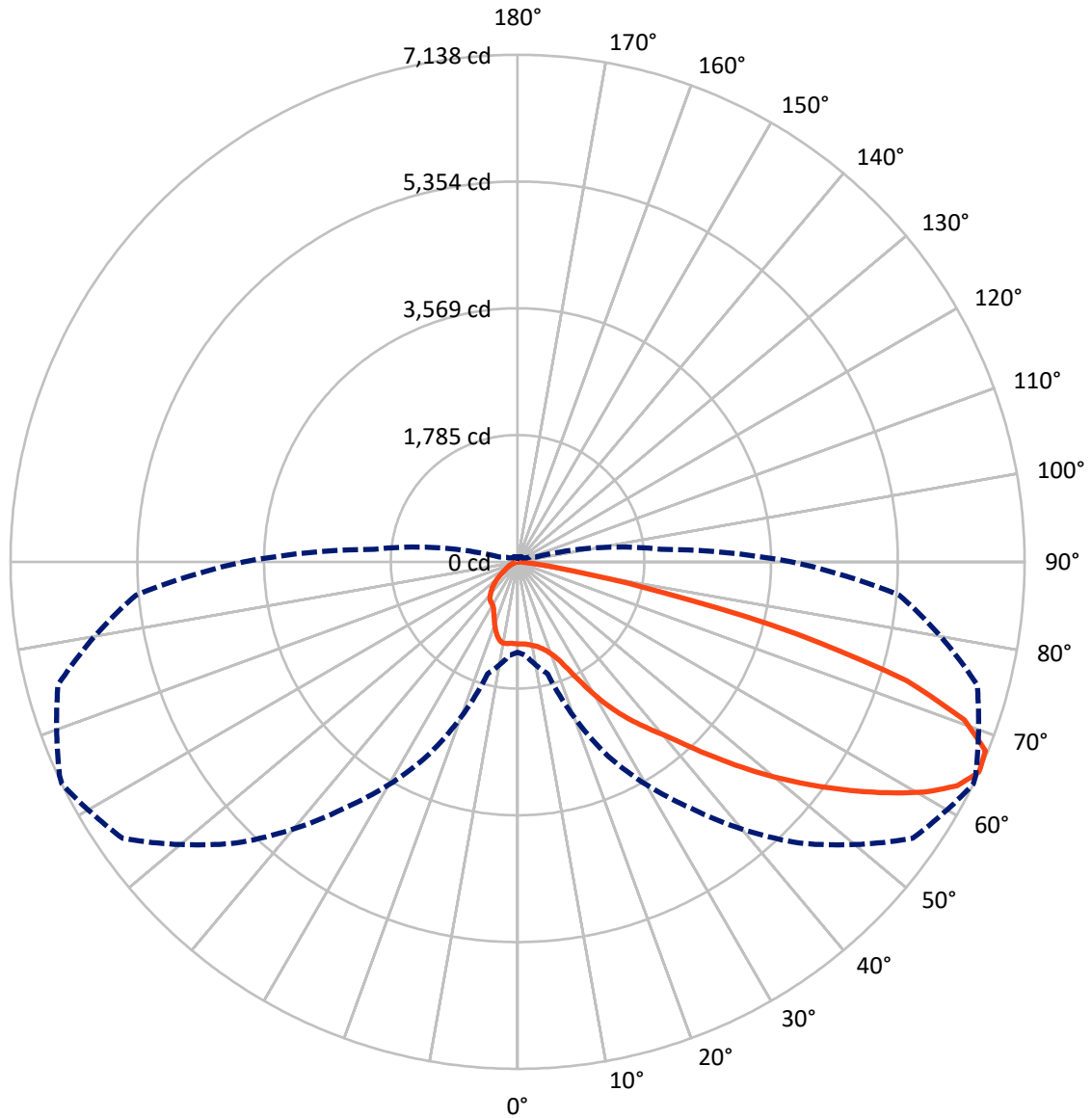
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1330.0	0.0	1330.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	8615.5	0.0	8615.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	9945.6	0.0	9945.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	1.1
10°-20°	289.5	2.9
20°-30°	548.5	5.5
30°-40°	1109.9	11.2
40°-50°	1890.8	19.0
50°-60°	2571.3	25.9
60°-70°	2414.6	24.3
70°-80°	967.4	9.7
80°-90°	46.9	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°	9945.6	100.0
0°-180°	9945.6	100.0

**Coefficient of Utilization**



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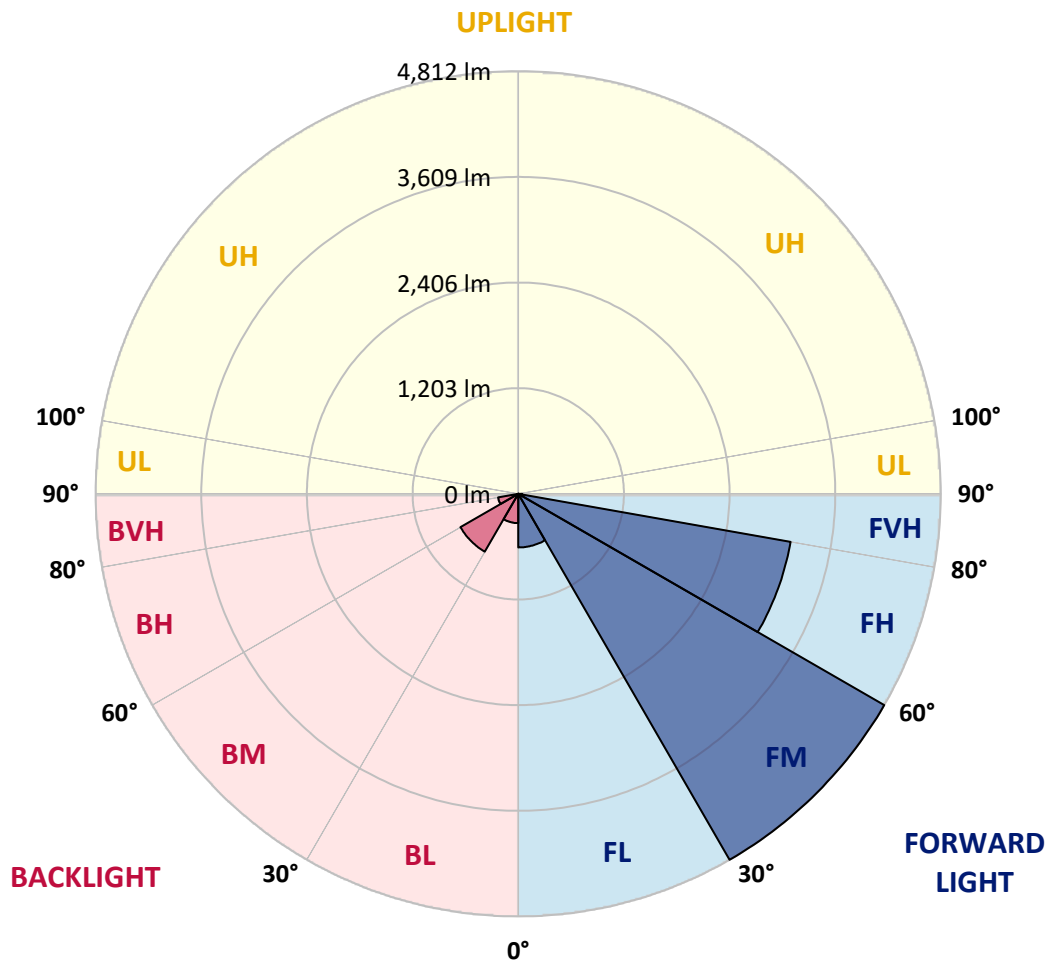
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.8	6.1			
FM (30°-60°)	4811.6	48.4			
FH (60°-80°)	3148.5	31.7			G2/5000
FVH (80°-90°)	44.6	0.4			G1/100
BL (0°-30°)	333.9	3.4	B1/500		
BM (30°-60°)	760.4	7.6	B1/1000		
BH (60°-80°)	233.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1152.8	1160.8	1158.8	1156.8	1156.1	1157.4	1158.1	1157.4	1157.4	1157.4	1158.1
5°	1130.8	1137.4	1137.4	1142.1	1148.8	1156.8	1162.8	1164.1	1165.4	1167.5	1166.8
7.5°	1088.8	1094.1	1098.1	1113.5	1130.1	1151.5	1169.4	1178.8	1180.1	1187.5	1190.1
10°	1060.1	1066.7	1073.5	1089.5	1113.5	1145.4	1176.1	1198.7	1202.1	1219.4	1227.4
12.5°	1058.7	1065.4	1074.1	1091.4	1119.4	1153.4	1190.7	1223.4	1229.5	1254.8	1271.4
15°	1072.8	1080.8	1088.8	1110.1	1140.1	1181.4	1221.5	1262.1	1268.1	1304.1	1322.1
17.5°	1101.5	1112.1	1118.1	1139.4	1171.5	1217.5	1270.1	1316.8	1322.1	1364.2	1386.8
20°	1158.1	1170.8	1172.8	1190.1	1221.5	1270.8	1333.4	1391.4	1398.1	1446.2	1471.5
22.5°	1275.4	1293.4	1277.5	1286.2	1314.2	1363.5	1431.5	1504.8	1514.1	1568.8	1591.5
25°	1482.1	1507.5	1466.2	1451.5	1463.5	1514.8	1600.1	1692.8	1703.4	1747.5	1758.8
27.5°	1888.2	1855.5	1792.8	1731.5	1695.5	1724.9	1820.8	1935.5	1948.8	1991.5	1978.1
30°	2334.2	2305.5	2220.9	2084.8	1999.5	1994.9	2083.5	2211.5	2226.9	2267.5	2226.9
32.5°	2780.9	2753.6	2661.6	2494.2	2346.2	2272.8	2334.2	2476.2	2484.2	2510.2	2450.3
35°	3220.3	3192.3	3100.3	2928.9	2746.9	2580.2	2568.2	2728.2	2730.9	2758.3	2668.9
37.5°	3662.3	3639.0	3541.0	3373.0	3193.6	2963.6	2852.3	2967.0	2970.2	2996.9	2904.2
40°	3977.7	3987.7	3920.3	3790.3	3636.3	3385.0	3170.9	3221.0	3201.0	3245.7	3190.3
42.5°	4248.4	4268.4	4209.7	4144.4	4055.0	3833.7	3565.7	3557.0	3525.0	3549.0	3491.7
45°	4482.4	4499.0	4446.4	4431.1	4429.1	4273.7	3997.0	3945.0	3900.3	3895.7	3827.0
47.5°	4568.4	4600.4	4623.1	4674.4	4774.4	4709.1	4443.1	4362.4	4312.4	4275.7	4167.0
50°	4601.1	4635.0	4712.4	4861.8	5098.5	5126.4	4887.1	4796.5	4735.1	4668.5	4508.5
52.5°	4557.0	4617.7	4721.8	4973.1	5316.5	5461.2	5313.2	5233.9	5163.8	5055.1	4817.8
55°	4297.7	4358.4	4571.1	4971.8	5425.1	5695.8	5715.9	5680.5	5601.8	5430.6	5067.8
57.5°	3751.0	3841.0	4177.7	4802.4	5423.2	5897.8	6110.5	6135.9	6047.9	5802.5	5264.5
60°	2993.6	3115.6	3526.3	4427.1	5255.8	6007.2	6456.6	6583.3	6489.9	6169.3	5423.8
62.5°	2088.8	2230.2	2618.9	3839.0	4873.2	5928.5	6709.2	6943.4	6872.6	6497.3	5485.2
65°	1274.1	1319.5	1632.8	3021.0	4222.4	5599.2	6787.3	7138.0	7114.6	6698.0	5394.5
67.5°	848.7	886.7	976.7	2071.5	3277.6	4941.1	6600.6	7104.0	7110.6	6665.3	5062.5
70°	511.4	544.1	602.7	1204.8	2124.2	3911.0	6022.6	6670.6	6709.2	6228.6	4433.1
72.5°	210.6	232.7	286.1	546.0	1100.1	2482.2	4795.8	5727.2	5817.2	5237.1	3402.3
75°	119.3	130.7	168.0	274.0	477.3	1156.8	2905.0	4065.7	4198.4	3609.6	2046.8
77.5°	79.3	84.7	108.6	177.3	268.7	394.7	1241.5	2118.2	2371.5	1971.5	886.1
80°	53.3	58.0	74.7	118.7	174.7	169.3	395.3	784.7	965.4	677.4	216.1
82.5°	36.0	36.7	53.3	78.0	110.7	82.0	116.6	244.1	306.7	196.0	82.0
85°	20.7	20.0	39.4	45.3	49.3	34.0	35.4	73.4	96.0	82.7	46.6
87.5°	2.7	4.0	15.4	12.0	6.7	7.4	7.4	12.7	18.7	20.0	10.0
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°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1158.1	1157.4	1155.5	1153.4	1148.8	1146.2	1147.5	1146.2	1145.4	1146.2	1148.8
5°	1166.8	1164.8	1159.5	1152.8	1143.5	1132.1	1124.7	1114.1	1104.1	1098.1	1099.4
7.5°	1190.1	1188.1	1180.8	1162.1	1132.1	1084.8	1041.4	1003.5	974.8	958.1	958.8
10°	1227.4	1224.2	1212.8	1171.5	1092.8	989.4	903.4	832.1	785.4	763.4	761.4
12.5°	1271.4	1267.4	1247.4	1162.8	1018.1	856.7	738.1	658.8	615.4	596.0	594.1
15°	1323.5	1318.1	1278.8	1121.5	909.4	710.0	601.4	542.0	514.0	496.7	497.3
17.5°	1388.2	1378.8	1302.2	1059.4	791.4	598.1	517.4	472.7	448.0	431.4	430.1
20°	1472.1	1456.8	1320.8	985.4	682.8	527.4	460.7	423.3	404.7	390.0	387.3
22.5°	1589.5	1567.4	1343.5	905.4	606.1	478.7	418.7	391.3	376.1	359.4	356.7
25°	1734.8	1708.8	1371.4	831.4	553.4	436.8	388.1	365.4	347.4	328.0	326.1
27.5°	1938.2	1891.5	1404.8	770.7	508.1	400.7	360.1	334.7	314.1	298.1	294.7
30°	2164.9	2088.2	1434.2	734.1	466.7	367.4	323.4	298.1	278.7	267.3	265.4
32.5°	2379.5	2275.5	1453.4	718.1	429.4	329.3	283.3	256.0	241.4	238.0	240.1
35°	2582.3	2444.9	1451.5	702.7	396.1	291.4	244.1	216.1	204.7	206.6	206.6
37.5°	2815.6	2625.5	1437.5	678.8	368.7	256.7	210.0	185.3	175.4	176.0	178.7
40°	3087.0	2834.2	1428.8	633.3	338.7	224.7	182.0	162.1	154.7	152.0	151.4
42.5°	3376.4	3036.3	1430.2	582.1	301.3	196.0	162.7	146.1	139.3	137.4	136.6
45°	3667.0	3229.0	1432.1	528.7	262.0	174.0	148.7	134.7	130.7	128.0	128.0
47.5°	3940.4	3393.0	1394.8	471.4	223.3	157.3	137.4	128.0	124.6	121.4	121.4
50°	4195.0	3502.3	1304.8	404.7	192.7	144.0	128.6	122.0	118.7	115.3	115.3
52.5°	4393.0	3519.6	1156.1	336.0	171.4	134.0	123.3	117.4	113.4	110.0	109.4
55°	4481.1	3411.0	944.7	272.0	154.7	125.4	118.0	112.0	107.3	104.0	103.3
57.5°	4458.4	3182.3	736.8	218.7	138.7	116.6	111.3	107.3	102.0	96.7	96.0
60°	4347.0	2876.3	555.3	182.0	124.0	107.3	104.0	100.7	93.4	85.4	84.0
62.5°	4154.4	2491.6	396.1	150.7	108.0	96.7	95.3	92.7	82.0	67.3	66.0
65°	3859.7	2024.2	266.7	125.4	92.7	84.7	85.4	80.7	66.6	50.0	48.7
67.5°	3429.0	1480.1	170.7	102.7	77.4	70.6	71.3	68.7	56.7	42.6	40.7
70°	2880.2	980.1	111.3	78.0	62.0	54.6	58.6	59.3	48.0	34.6	33.3
72.5°	2111.5	578.7	78.0	58.0	45.3	38.0	48.0	49.3	38.6	26.0	24.7
75°	1203.5	274.7	58.6	42.0	28.0	26.6	37.3	37.3	26.6	17.3	16.0
77.5°	505.4	114.7	41.3	27.4	16.0	15.4	25.3	23.4	13.3	8.0	8.0
80°	146.1	51.4	22.0	13.3	6.7	6.0	10.0	7.4	3.4	1.3	1.3
82.5°	57.3	22.7	8.7	5.3	2.7	2.7	1.3	0.0	0.0	0.0	0.0
85°	34.0	9.3	4.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.0	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)