

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: P963430

Luminaire Tested: **NAV-SB3A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8628.4 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

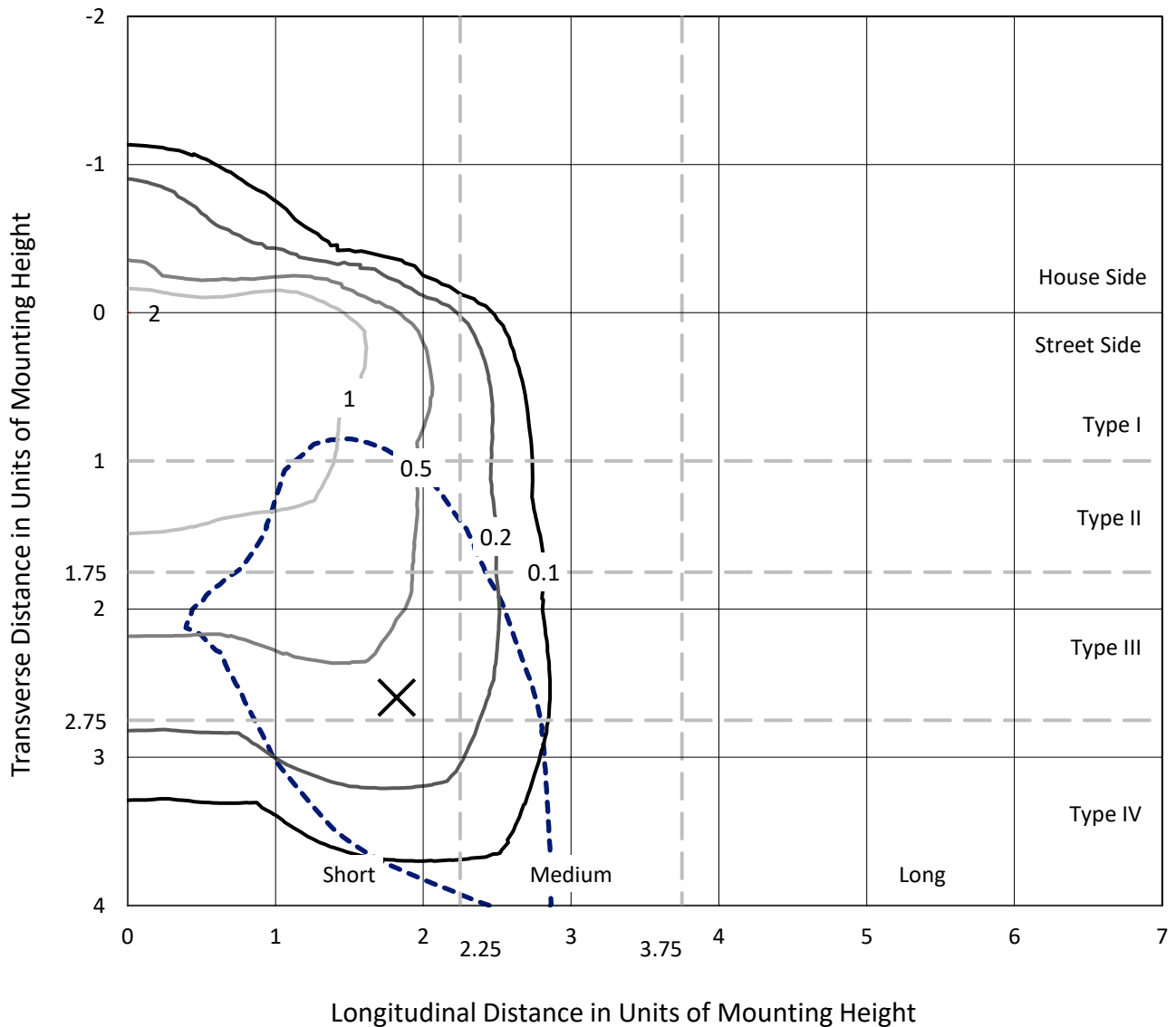
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

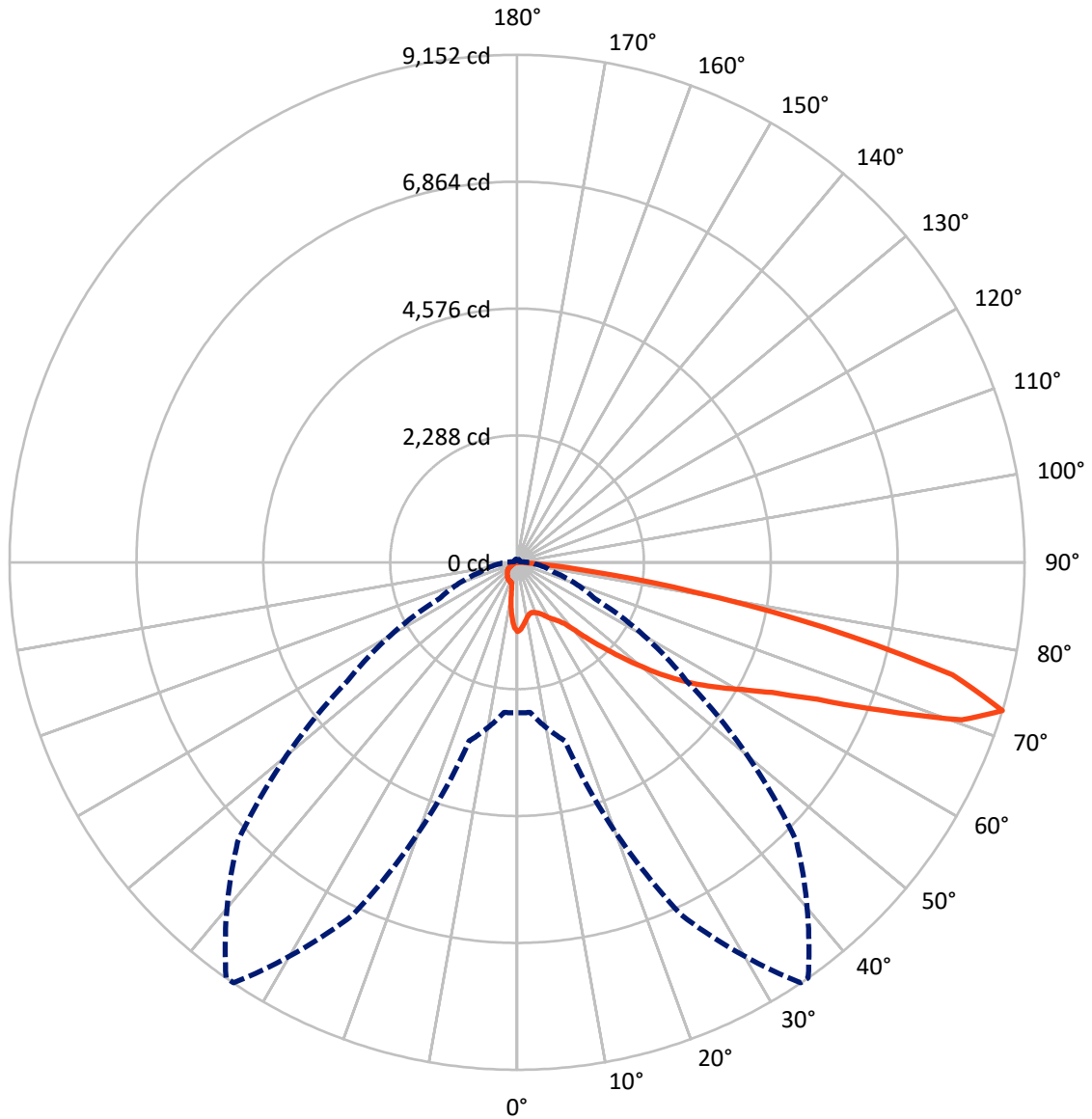
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	971.1	0.0	971.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	7657.4	0.0	7657.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	8628.4	0.0	8628.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	1.2
10°-20°	240.4	2.8
20°-30°	390.5	4.5
30°-40°	651.6	7.6
40°-50°	1232.8	14.3
50°-60°	1958.9	22.7
60°-70°	2423.3	28.1
70°-80°	1506.4	17.5
80°-90°	121.7	1.4
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°	8628.4	100.0
0°-180°	8628.4	100.0

**Coefficient of Utilization**

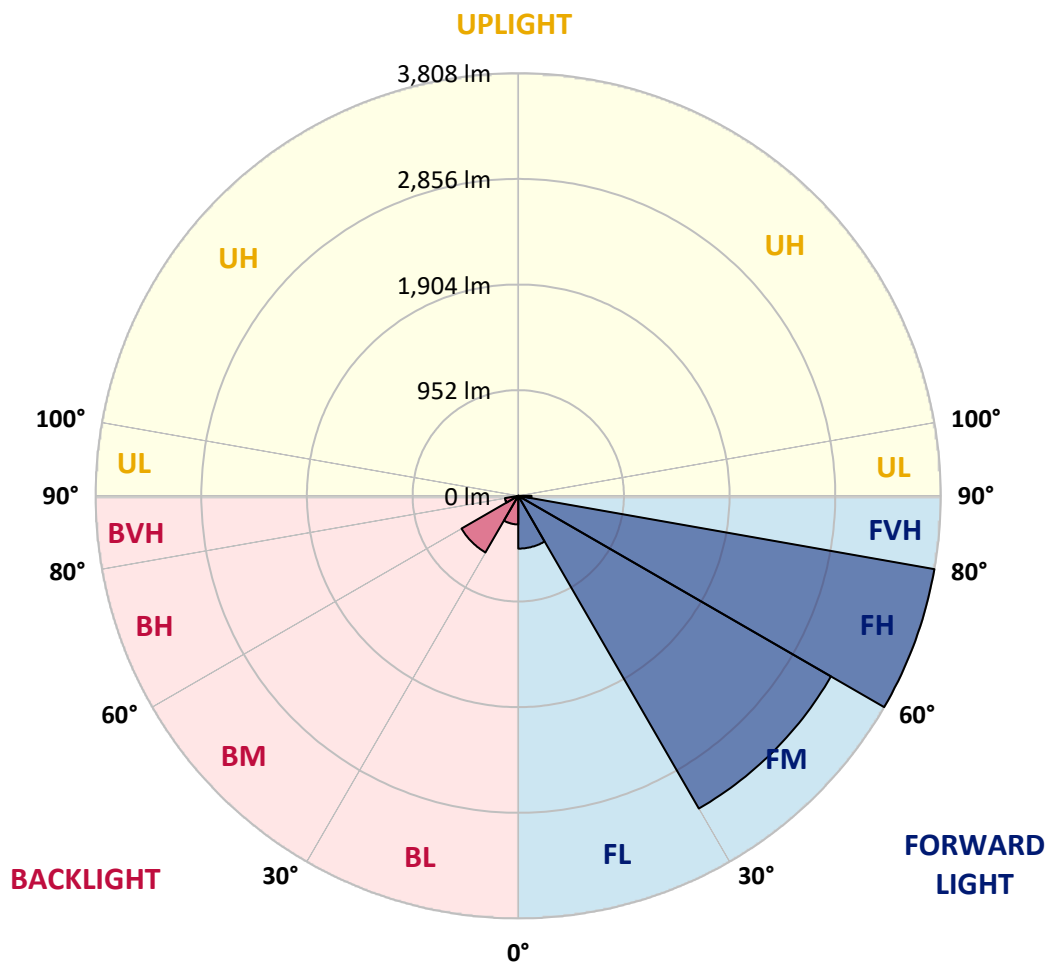


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.6	5.5			
FM (30°-60°)	3253.8	37.7			
FH (60°-80°)	3807.8	44.1			G2/5000
FVH (80°-90°)	120.1	1.4			G2/225
BL (0°-30°)	258.0	3.0	B1/500		
BM (30°-60°)	589.5	6.8	B1/1000		
BH (60°-80°)	121.9	1.4	B1/500		G1/500
BVH (80°-90°)	1.7	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6
2.5°	1194.9	1205.0	1206.9	1210.1	1210.1	1213.9	1220.2	1229.1	1243.6	1251.2	1256.2
5°	1101.4	1108.9	1118.4	1126.0	1140.5	1142.5	1167.1	1191.2	1224.7	1249.9	1267.6
7.5°	1007.2	1016.0	1028.7	1046.9	1065.9	1071.6	1108.9	1149.4	1202.5	1249.9	1279.6
10°	940.7	941.4	952.7	971.1	1001.4	1008.4	1053.9	1111.5	1177.8	1242.3	1291.0
12.5°	903.4	907.8	913.0	926.8	955.9	960.3	1009.0	1076.7	1153.2	1237.9	1304.3
15°	903.4	906.6	909.8	916.8	940.1	943.9	986.9	1054.5	1140.5	1239.8	1325.8
17.5°	913.0	918.0	915.4	923.7	948.3	950.9	988.8	1048.3	1139.9	1251.8	1358.6
20°	935.7	939.5	934.4	939.5	964.1	969.2	1008.4	1060.3	1150.7	1272.6	1399.7
22.5°	971.7	973.6	961.7	965.4	990.7	997.0	1042.5	1094.4	1176.6	1306.2	1454.8
25°	1017.2	1021.0	1002.8	1007.2	1031.1	1038.7	1091.2	1145.6	1217.7	1352.4	1524.9
27.5°	1069.7	1071.6	1055.9	1055.2	1086.2	1097.0	1150.0	1208.8	1272.6	1410.5	1613.5
30°	1129.8	1135.5	1120.3	1117.8	1157.0	1165.8	1218.3	1286.6	1353.6	1497.7	1739.2
32.5°	1177.2	1181.6	1172.8	1179.2	1218.9	1225.9	1301.1	1396.6	1480.7	1621.7	1910.6
35°	1245.5	1248.0	1227.7	1239.1	1284.7	1302.4	1414.3	1550.8	1640.6	1777.2	2134.5
37.5°	1492.7	1492.7	1406.7	1350.4	1394.1	1409.9	1569.2	1745.0	1837.9	1985.8	2416.3
40°	1834.7	1829.0	1703.2	1588.1	1582.5	1613.5	1789.9	1989.6	2092.6	2236.2	2733.8
42.5°	2199.5	2190.6	2019.4	1905.6	1886.6	1897.3	2044.7	2291.2	2396.1	2541.6	3075.2
45°	2523.2	2520.7	2364.0	2210.9	2176.8	2210.9	2362.6	2644.0	2719.2	2872.3	3415.9
47.5°	2794.5	2794.5	2680.1	2580.1	2562.4	2582.7	2793.2	3035.3	3028.4	3224.3	3747.9
50°	3106.8	3104.2	2995.5	2952.5	2970.9	2999.3	3288.8	3447.6	3348.3	3570.2	4044.3
52.5°	3325.5	3340.7	3303.4	3296.4	3390.0	3439.3	3792.1	3850.9	3634.6	3898.4	4266.3
55°	3498.7	3516.5	3559.4	3608.1	3788.3	3852.8	4279.6	4233.5	3874.3	4182.8	4394.0
57.5°	3744.0	3718.8	3785.1	3881.3	4172.7	4250.5	4751.8	4594.5	4067.1	4413.6	4407.9
60°	4041.9	4045.7	4057.1	4178.4	4556.5	4656.4	5217.1	4935.8	4191.0	4555.2	4253.6
62.5°	4399.7	4405.3	4428.8	4615.3	5071.8	5166.0	5712.8	5215.3	4247.9	4515.4	3855.3
65°	4375.0	4399.1	4660.2	5298.1	5855.1	5948.0	6291.3	5411.3	4162.0	4151.2	3139.1
67.5°	3985.6	4024.8	4461.6	6113.7	7036.1	7139.7	6990.6	5449.8	3790.9	3228.1	2047.7
70°	3474.7	3488.7	4014.0	6847.1	8403.6	8508.5	7616.5	5025.6	2876.7	1800.6	917.4
72.5°	2713.5	2716.7	3333.1	7017.2	9145.9	9151.5	7125.3	3730.8	1547.0	691.7	318.7
75°	1938.4	1919.4	2232.4	5690.7	8046.4	8110.9	5341.7	1750.0	591.1	326.9	158.7
77.5°	1039.4	1060.3	1263.2	3374.8	5558.6	5668.6	2914.6	504.5	300.9	222.5	105.0
80°	321.1	338.9	517.8	1545.2	3148.5	3214.9	1080.5	224.5	209.9	158.7	68.9
82.5°	101.2	105.0	241.5	649.3	1306.8	1337.2	312.9	127.1	143.5	105.0	40.5
85°	29.1	29.7	107.5	242.1	323.1	329.4	87.8	49.3	82.2	65.1	20.9
87.5°	3.2	10.1	40.5	40.5	28.5	27.8	9.5	10.8	23.4	8.2	3.8
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°	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6
2.5°	1253.1	1253.7	1245.5	1231.5	1216.4	1203.8	1188.0	1175.4	1166.4	1163.9	1168.4
5°	1262.0	1257.5	1234.1	1191.8	1141.1	1097.6	1048.9	1010.3	985.0	974.3	978.1
7.5°	1275.2	1262.6	1211.3	1127.9	1031.1	945.2	857.9	790.3	747.3	725.8	729.0
10°	1286.6	1261.3	1173.4	1035.6	887.6	757.4	639.8	558.2	512.7	491.3	491.9
12.5°	1297.3	1260.6	1124.1	926.2	725.8	566.5	457.2	416.7	404.0	399.5	398.3
15°	1317.5	1262.6	1062.1	801.0	564.6	428.0	388.2	387.6	390.1	388.8	388.2
17.5°	1345.4	1264.4	992.0	668.3	435.6	377.4	375.6	381.2	385.0	383.1	382.5
20°	1381.4	1272.0	917.4	536.8	374.3	364.8	369.2	374.3	377.4	374.3	373.6
22.5°	1432.0	1285.4	835.8	431.2	354.6	357.2	361.0	366.6	369.8	365.4	364.8
25°	1493.9	1306.2	755.5	374.9	345.2	348.4	354.0	360.4	364.2	359.8	359.1
27.5°	1574.3	1339.7	681.5	362.2	335.7	337.6	345.8	355.3	360.4	354.6	354.6
30°	1690.6	1394.7	617.7	368.0	330.0	325.6	337.0	350.2	356.0	350.9	350.2
32.5°	1844.9	1472.5	578.5	376.8	327.5	311.7	322.5	339.5	349.0	345.8	345.8
35°	2047.1	1590.7	563.3	386.9	325.6	297.1	304.7	323.1	339.5	342.7	342.7
37.5°	2292.5	1755.1	567.7	391.3	319.9	285.2	288.9	304.7	326.3	336.3	338.9
40°	2571.3	1946.7	593.1	386.9	313.5	275.0	275.6	287.6	306.7	321.8	326.9
42.5°	2858.9	2170.4	639.8	370.5	307.9	266.2	264.2	272.4	285.2	295.9	300.3
45°	3132.7	2400.5	685.9	347.7	300.9	257.3	252.9	256.0	258.6	263.0	265.6
47.5°	3371.6	2562.4	672.7	326.9	291.4	247.2	239.6	238.3	230.7	230.1	229.5
50°	3536.7	2597.9	597.5	306.0	277.6	235.9	223.9	216.2	203.0	196.6	197.2
52.5°	3589.1	2458.2	488.1	285.2	254.8	220.7	203.6	191.6	175.2	169.4	168.8
55°	3519.6	2184.4	390.1	259.8	223.1	200.4	181.4	165.6	152.4	145.4	145.4
57.5°	3349.6	1836.0	308.5	230.1	189.6	177.6	158.7	142.9	131.5	124.5	123.3
60°	3067.6	1458.0	244.1	194.7	161.8	153.0	133.4	123.3	113.2	105.0	103.0
62.5°	2639.6	1040.7	191.6	154.3	135.3	125.2	113.8	106.2	94.2	82.8	81.0
65°	2059.8	636.6	147.9	113.2	108.8	103.7	96.8	89.8	75.2	63.9	61.9
67.5°	1299.2	301.6	105.6	85.4	86.0	83.4	80.3	74.6	63.9	53.7	52.5
70°	572.2	146.1	69.5	65.1	63.9	63.9	66.4	64.5	54.3	44.9	42.9
72.5°	194.7	78.4	51.9	49.3	46.1	45.5	55.7	53.7	43.7	34.7	32.9
75°	101.8	52.5	37.9	35.4	27.8	33.5	44.3	41.7	31.0	22.8	20.9
77.5°	66.4	37.3	25.9	22.8	15.8	22.1	32.9	29.1	18.3	11.4	10.1
80°	41.7	24.7	15.2	10.8	7.6	12.0	17.7	12.6	7.0	2.6	1.9
82.5°	22.1	12.6	5.7	3.8	3.2	3.8	4.4	3.2	1.2	0.0	0.0
85°	8.8	4.4	1.9	1.2	0.6	0.0	1.2	0.6	0.0	0.0	0.0
87.5°	3.2	0.6	0.0	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)