

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: P961312

Luminaire Tested: **NAV-SB2A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5546.3 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

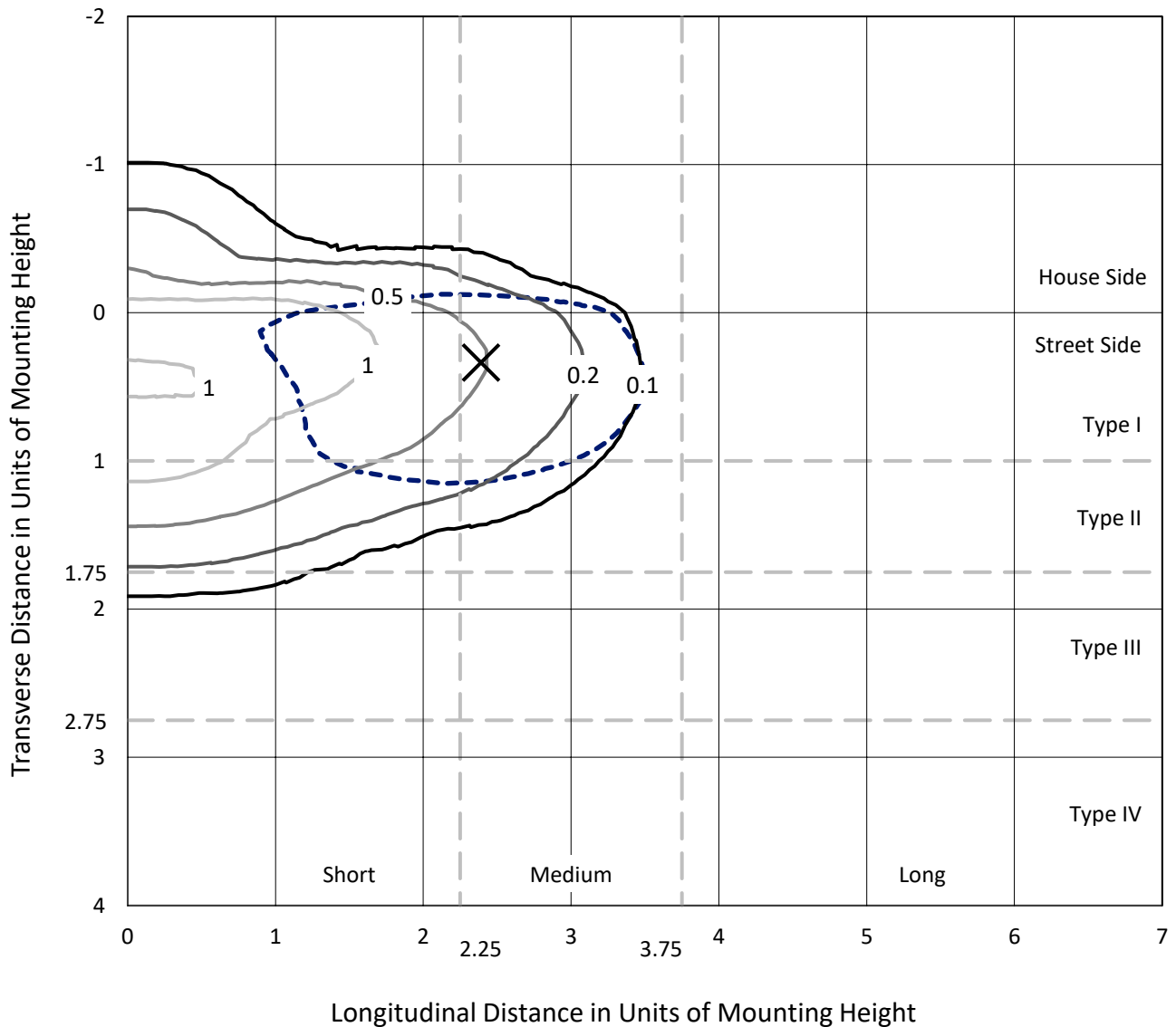
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

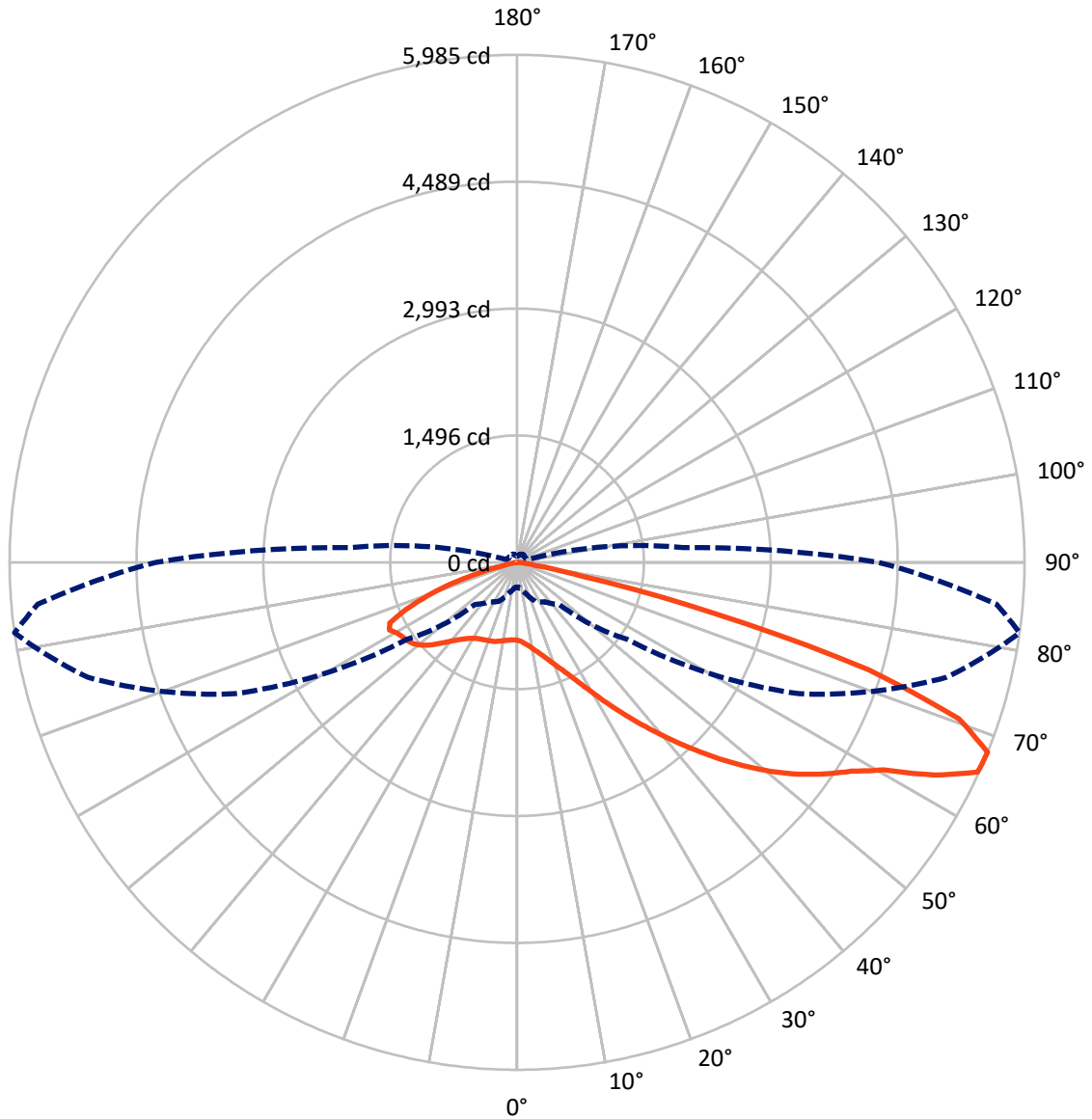
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.7	0.0	1004.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4541.6	0.0	4541.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	5546.3	0.0	5546.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.5
10°-20°	212.7	3.8
20°-30°	340.7	6.1
30°-40°	602.5	10.9
40°-50°	1055.6	19.0
50°-60°	1407.9	25.4
60°-70°	1310.7	23.6
70°-80°	503.0	9.1
80°-90°	31.2	0.6
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°	5546.3	100.0
0°-180°	5546.3	100.0

Coefficient of Utilization



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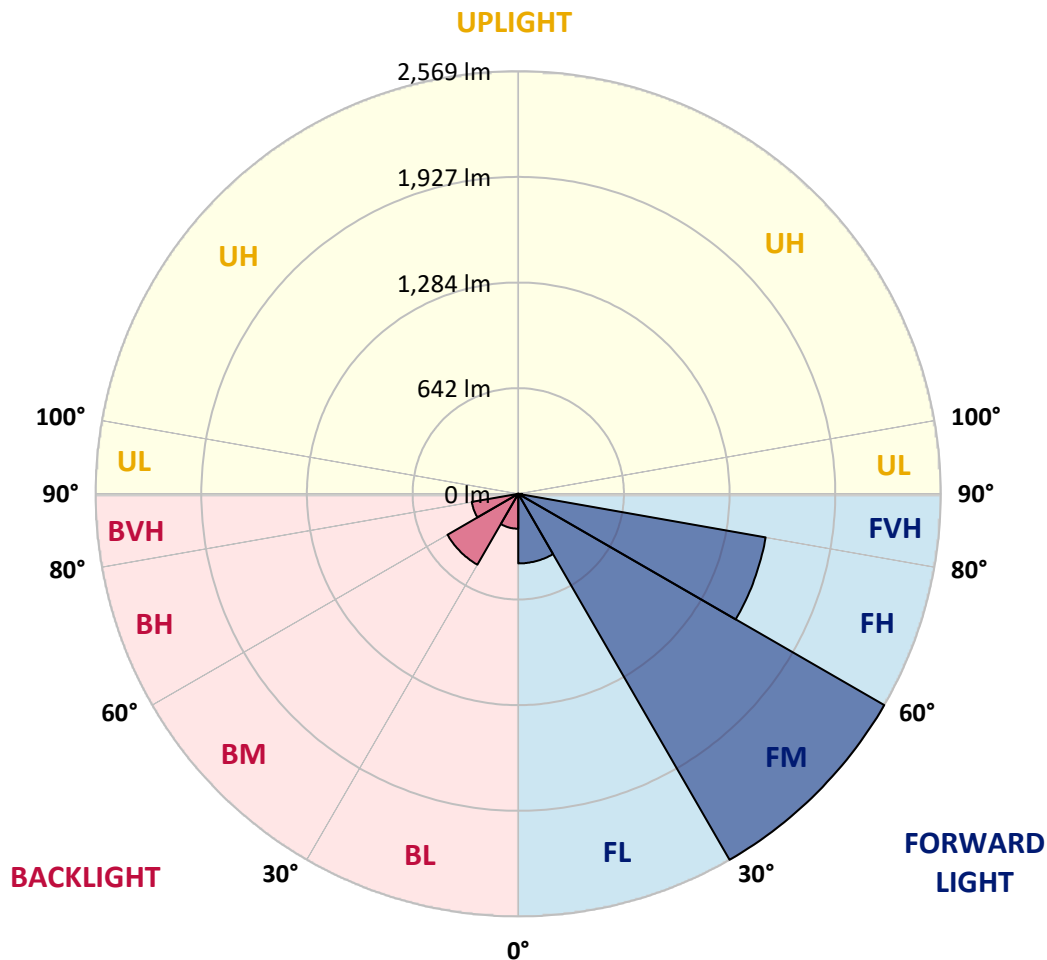
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.1	7.6			
FM (30°-60°)	2568.8	46.3			
FH (60°-80°)	1527.0	27.5			G1/1800
FVH (80°-90°)	22.7	0.4			G1/100
BL (0°-30°)	212.2	3.8	B1/500		
BM (30°-60°)	497.2	9.0	B1/1000		
BH (60°-80°)	286.7	5.2	B1/500		G1/500
BVH (80°-90°)	8.5	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	971.2	976.7	973.5	971.9	969.1	965.1	962.0	952.0	941.6	934.8	932.4
5°	990.7	996.3	995.9	997.5	999.5	1000.7	999.9	988.7	974.0	962.4	955.6
7.5°	974.0	980.3	985.5	993.5	1007.5	1022.2	1029.4	1027.0	1011.9	995.9	987.5
10°	926.4	933.2	945.6	964.3	993.9	1025.8	1052.6	1065.0	1055.4	1037.8	1026.2
12.5°	839.4	846.1	870.5	911.2	960.7	1016.3	1067.3	1100.5	1102.9	1085.4	1071.7
15°	741.5	748.4	774.3	825.4	900.9	989.9	1075.3	1138.1	1159.2	1144.0	1127.7
17.5°	680.8	686.9	706.4	747.5	826.2	937.2	1072.6	1178.0	1226.3	1214.3	1194.7
20°	662.5	667.7	676.8	705.6	771.1	882.5	1054.2	1215.5	1298.6	1291.8	1269.9
22.5°	682.0	686.9	689.6	702.4	743.5	846.5	1031.0	1253.9	1382.4	1383.2	1356.5
25°	727.1	732.0	728.8	736.8	754.7	835.4	1022.2	1299.0	1487.9	1496.6	1466.3
27.5°	801.4	801.9	794.3	793.9	796.6	852.2	1031.5	1347.3	1620.8	1637.2	1599.7
30°	950.4	944.4	915.2	883.7	869.3	902.4	1057.0	1404.4	1777.8	1806.9	1759.8
32.5°	1180.0	1171.2	1117.7	1042.2	966.4	983.5	1102.9	1469.4	1948.6	2001.4	1943.9
35°	1429.2	1426.8	1370.8	1258.7	1126.1	1098.9	1177.6	1554.9	2135.2	2219.0	2150.8
37.5°	1660.8	1659.6	1627.6	1495.5	1334.1	1259.8	1297.3	1666.8	2334.8	2456.2	2375.5
40°	1872.4	1876.0	1844.1	1725.9	1563.3	1466.3	1460.3	1804.9	2556.9	2714.6	2618.8
42.5°	2055.3	2059.3	2026.9	1939.5	1789.8	1694.7	1660.4	1974.3	2773.6	2992.1	2878.7
45°	2179.5	2204.3	2199.4	2129.5	2022.1	1923.5	1900.8	2186.6	3020.9	3286.4	3153.4
47.5°	2214.6	2237.4	2273.3	2282.9	2217.4	2120.4	2147.6	2442.7	3270.8	3581.0	3429.8
50°	2128.0	2149.1	2223.8	2323.3	2368.8	2338.8	2387.5	2717.0	3526.8	3875.0	3700.9
52.5°	1957.0	1978.7	2072.9	2230.2	2415.8	2510.1	2628.3	2987.3	3774.8	4153.3	3957.6
55°	1709.9	1732.7	1853.6	2031.8	2326.0	2580.7	2829.2	3257.2	4002.0	4403.7	4189.3
57.5°	1373.6	1390.4	1516.2	1765.4	2100.0	2510.5	2977.3	3551.9	4216.0	4649.6	4418.9
60°	895.2	910.0	1056.2	1334.1	1725.5	2275.7	3006.8	3880.5	4500.3	4969.5	4728.3
62.5°	595.4	605.4	692.0	896.1	1215.1	1824.9	2833.9	4142.9	4917.2	5526.2	5259.0
65°	408.5	418.5	505.1	647.3	785.0	1207.1	2336.8	4108.2	5294.9	5968.2	5652.4
67.5°	291.5	299.9	373.4	507.6	568.3	701.2	1584.1	3664.2	5240.6	5985.0	5673.5
70°	208.8	213.6	274.3	395.3	451.6	421.3	880.9	2802.5	4588.5	5526.6	5241.4
72.5°	146.2	147.7	190.4	301.0	363.8	307.5	419.3	1868.4	3470.4	4337.8	4063.4
75°	99.0	101.1	128.2	220.8	291.9	234.8	222.0	1001.9	2037.3	2401.1	2152.3
77.5°	60.7	61.5	82.6	151.0	218.4	178.9	143.0	424.5	788.2	773.9	659.7
80°	34.3	34.3	52.7	93.9	148.9	115.4	100.2	180.5	249.6	219.2	193.3
82.5°	19.2	19.6	38.3	58.3	98.6	68.3	55.1	83.4	107.8	95.4	83.0
85°	8.0	8.8	23.6	27.6	47.2	33.9	22.3	35.2	40.0	35.6	25.9
87.5°	0.8	1.2	7.2	5.2	5.6	6.8	3.2	6.8	5.6	5.6	4.0
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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	924.9	918.8	903.6	886.1	862.9	851.8	836.6	826.2	817.4	818.2	810.3
5°	942.8	927.6	893.7	851.4	798.7	761.1	721.2	693.6	671.3	666.5	655.7
7.5°	967.5	943.6	884.1	807.8	718.7	651.3	591.0	552.3	524.7	515.9	507.2
10°	999.5	964.7	871.7	753.1	624.9	539.0	474.4	444.0	425.3	418.9	414.1
12.5°	1036.6	989.1	855.4	686.4	528.3	445.7	404.5	389.3	383.3	381.3	380.2
15°	1083.3	1019.5	830.6	607.3	446.4	388.6	370.9	369.0	369.7	369.0	368.6
17.5°	1138.9	1052.6	790.3	525.9	391.3	359.4	353.0	354.5	356.6	356.2	355.4
20°	1199.6	1085.4	738.7	453.7	353.8	338.7	335.1	336.6	338.2	337.4	337.0
22.5°	1268.6	1120.5	681.6	397.3	328.6	319.5	315.5	315.9	315.9	314.3	313.4
25°	1351.3	1159.2	621.8	357.4	309.4	302.3	297.5	295.9	293.5	288.7	287.9
27.5°	1450.0	1200.4	564.3	329.4	294.3	287.5	281.9	277.9	271.9	263.9	263.1
30°	1561.0	1250.3	515.5	311.9	282.3	275.5	269.2	263.1	254.4	244.4	243.5
32.5°	1691.6	1303.8	480.0	300.3	271.5	264.3	256.8	249.6	240.0	230.0	230.4
35°	1847.3	1368.5	459.2	292.3	263.1	253.6	245.2	237.2	230.0	221.2	220.4
37.5°	2016.2	1437.2	452.8	288.3	257.6	242.8	233.2	227.7	226.8	221.6	221.2
40°	2201.1	1518.6	457.7	285.9	251.5	232.4	222.0	220.8	222.8	213.6	214.0
42.5°	2396.7	1615.2	465.6	283.1	243.2	222.0	212.1	212.1	210.4	197.6	197.6
45°	2608.3	1726.6	473.6	276.3	233.2	211.7	204.1	201.2	194.4	182.0	181.7
47.5°	2821.6	1840.1	479.6	263.9	221.2	202.8	196.1	189.6	179.7	168.5	168.1
50°	3024.1	1941.9	473.2	245.6	207.7	194.4	187.3	178.5	167.7	160.1	159.0
52.5°	3205.0	2030.1	446.1	224.1	193.3	185.7	179.3	170.1	161.3	153.3	152.5
55°	3362.2	2101.7	398.1	203.7	180.5	178.1	171.7	160.1	148.1	141.3	140.5
57.5°	3513.2	2155.9	338.2	186.9	168.9	169.7	160.1	149.8	138.6	131.4	130.6
60°	3714.1	2228.6	277.6	171.3	156.5	159.0	148.5	140.9	127.0	117.8	116.6
62.5°	4035.1	2341.6	220.4	152.1	142.2	143.0	138.6	129.4	112.6	101.8	101.1
65°	4289.8	2300.1	173.7	131.4	125.8	127.0	127.0	117.0	99.0	86.6	85.5
67.5°	4261.1	1969.4	138.6	111.0	110.2	111.0	113.8	105.4	87.8	77.9	76.3
70°	3925.3	1566.5	111.0	92.2	95.8	93.9	101.8	96.2	79.0	69.1	67.9
72.5°	3202.9	1128.4	84.7	76.3	73.5	76.7	91.8	86.6	65.9	54.7	53.5
75°	1871.6	602.2	63.1	60.3	53.1	63.9	81.5	73.9	50.3	40.3	39.2
77.5°	609.4	210.0	46.3	44.3	39.6	51.6	69.5	62.3	41.1	32.0	30.7
80°	163.3	63.4	31.6	29.1	25.5	38.3	55.1	49.5	29.5	20.8	20.4
82.5°	65.5	26.8	18.3	16.4	13.9	26.3	43.6	40.0	21.9	13.2	13.2
85°	21.1	8.8	6.8	5.2	6.4	16.4	25.9	27.2	15.6	6.8	5.2
87.5°	2.8	1.2	1.2	1.6	1.2	2.8	8.0	7.6	4.4	0.8	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)