

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: P960264

Luminaire Tested: **NAV-SB1C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960264
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-SB1C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4975.3 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

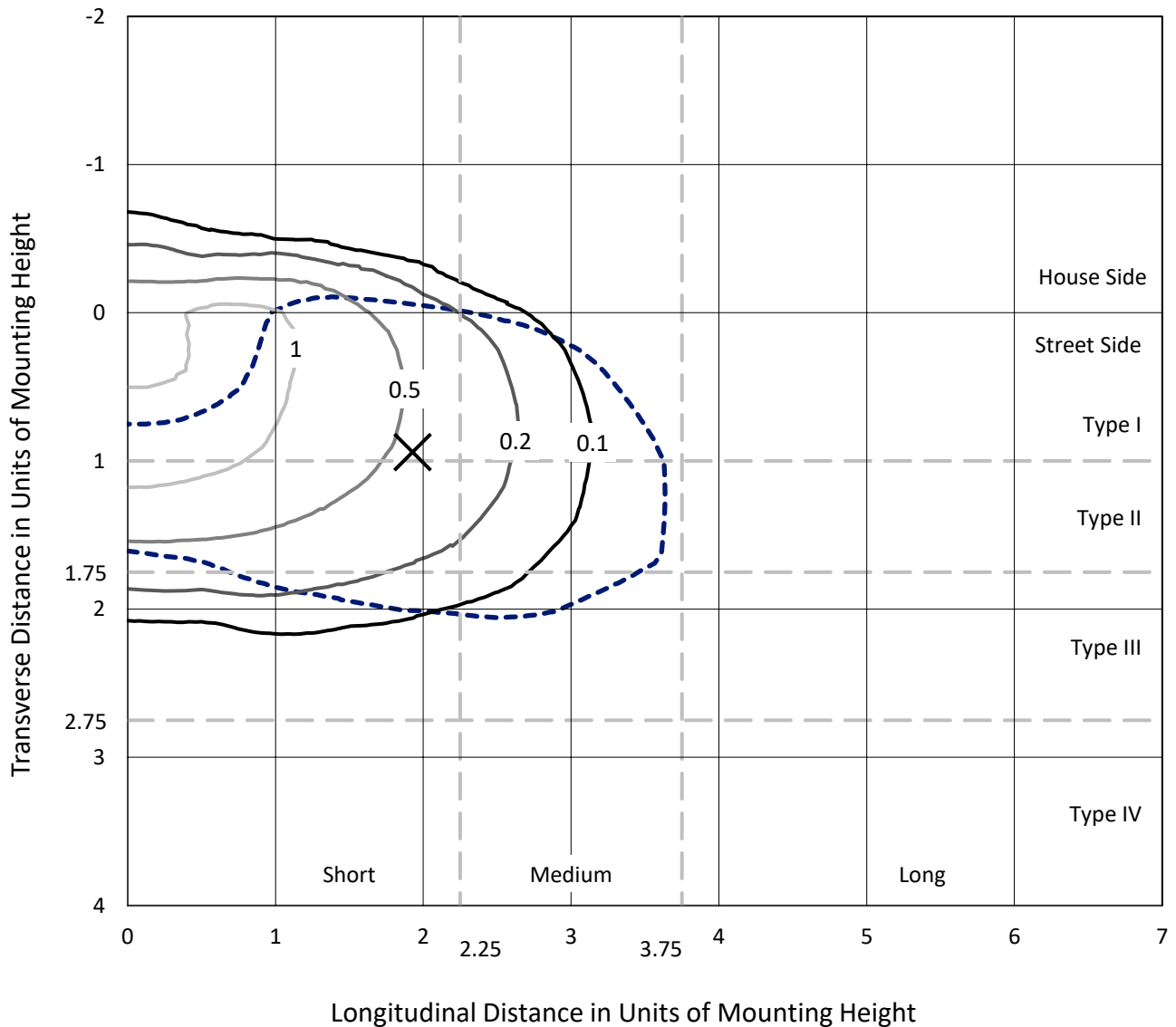
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

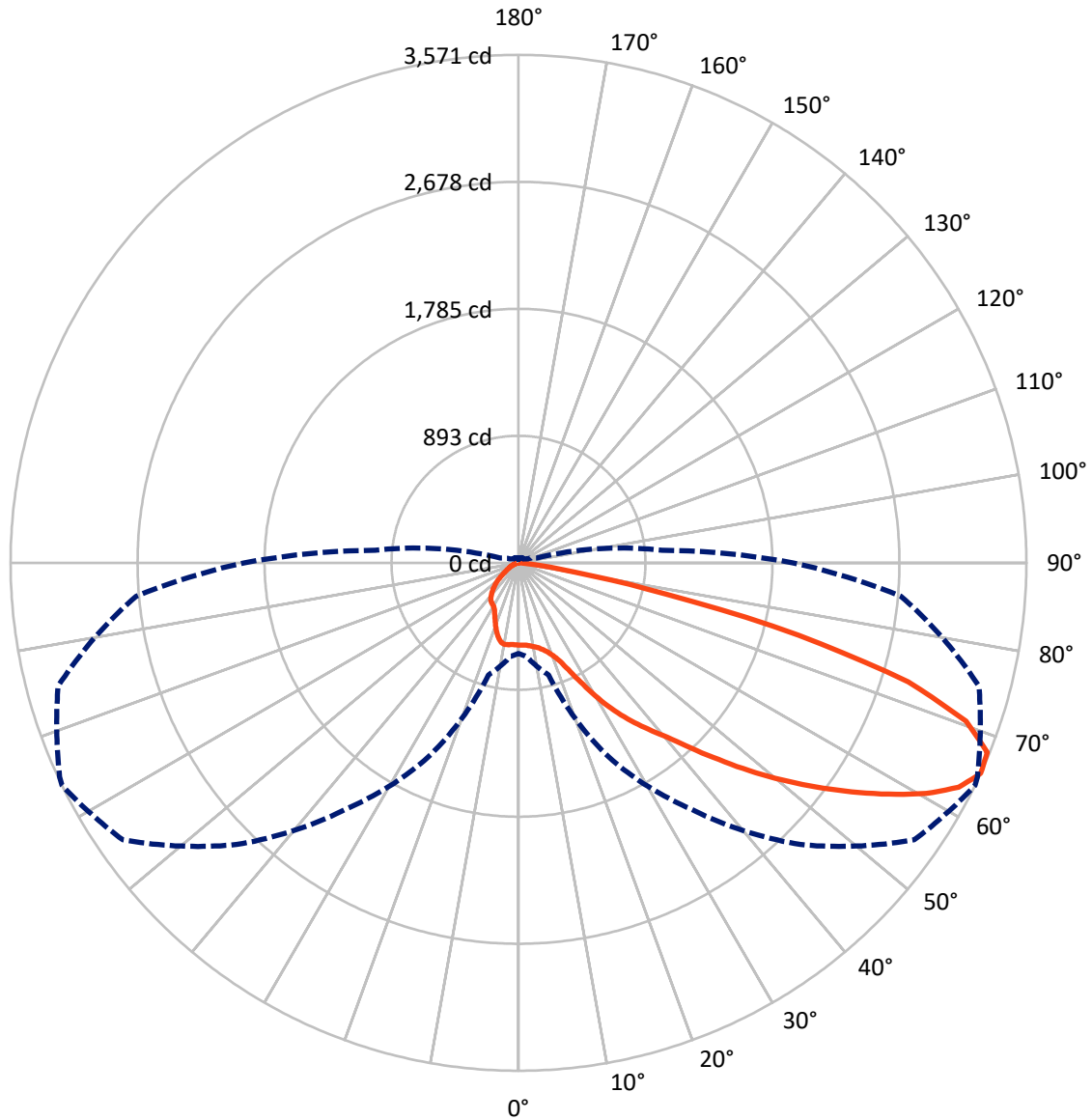
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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
House Side	Lumens	665.4	0.0	665.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4310.0	0.0	4310.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	4975.3	0.0	4975.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	144.8	2.9
20°-30°	274.4	5.5
30°-40°	555.3	11.2
40°-50°	945.9	19.0
50°-60°	1286.3	25.9
60°-70°	1207.9	24.3
70°-80°	483.9	9.7
80°-90°	23.4	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°	4975.3	100.0
0°-180°	4975.3	100.0

Coefficient of Utilization



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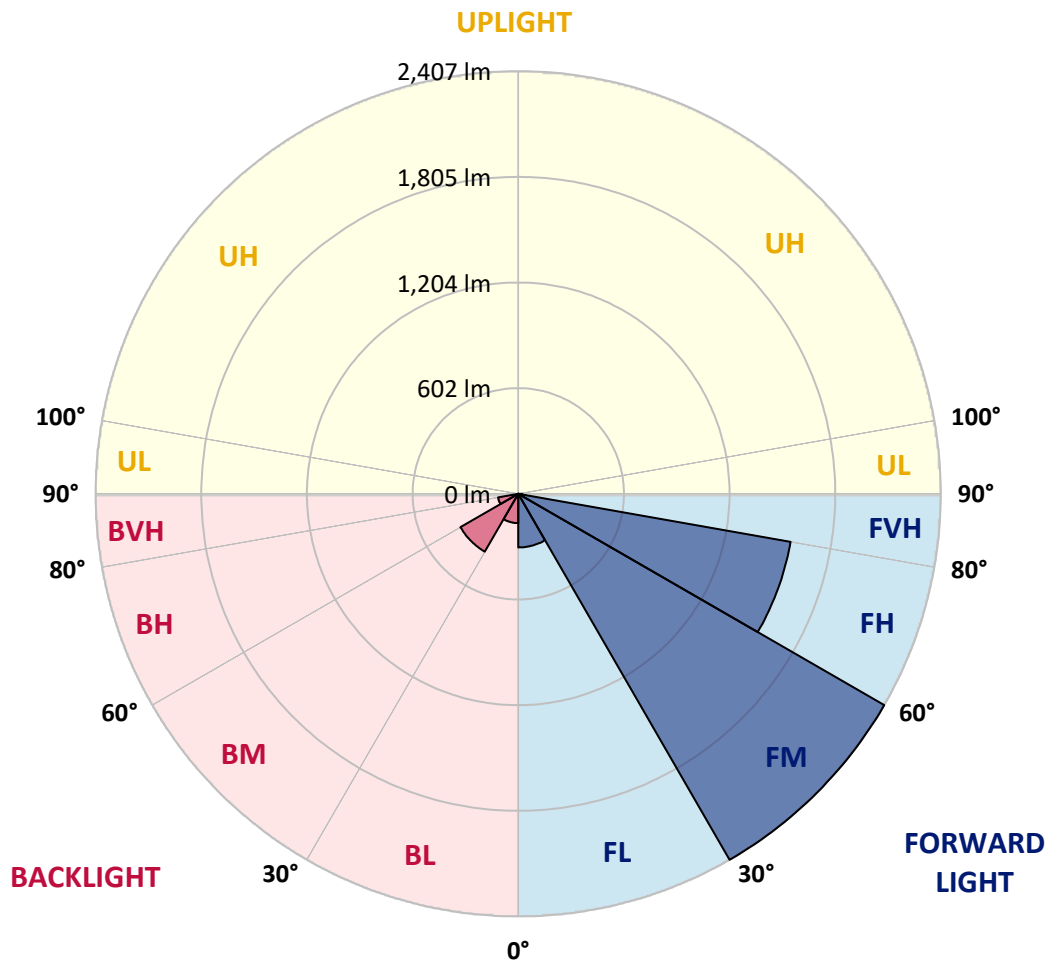
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.5	6.1			
FM (30°-60°)	2407.1	48.4			
FH (60°-80°)	1575.1	31.7			G1/1800
FVH (80°-90°)	22.3	0.4			G1/100
BL (0°-30°)	167.1	3.4	B1/500		
BM (30°-60°)	380.4	7.6	B1/1000		
BH (60°-80°)	116.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	576.7	580.7	579.6	578.7	578.3	579.0	579.3	579.0	579.0	579.0	579.3
5°	565.7	569.0	569.0	571.3	574.7	578.7	581.7	582.4	583.0	584.0	583.7
7.5°	544.7	547.3	549.3	557.0	565.4	576.0	585.1	589.7	590.4	594.0	595.3
10°	530.3	533.6	537.0	545.0	557.0	573.0	588.3	599.7	601.4	610.1	614.1
12.5°	529.6	533.0	537.3	546.0	560.0	577.0	595.7	612.0	615.0	627.7	636.0
15°	536.7	540.7	544.7	555.3	570.3	591.0	611.0	631.4	634.4	652.4	661.4
17.5°	551.0	556.4	559.3	570.0	586.0	609.1	635.4	658.8	661.4	682.4	693.7
20°	579.3	585.7	586.7	595.3	611.0	635.7	667.1	696.1	699.5	723.4	736.2
22.5°	638.1	647.1	639.1	643.4	657.4	682.0	716.1	752.8	757.5	784.8	796.1
25°	741.5	754.1	733.5	726.1	732.2	757.8	800.5	846.9	852.2	874.2	879.9
27.5°	944.5	928.2	896.9	866.2	848.2	862.8	910.9	968.2	974.9	996.3	989.6
30°	1167.7	1153.3	1111.0	1042.9	1000.3	997.9	1042.3	1106.4	1114.0	1134.4	1114.0
32.5°	1391.1	1377.5	1331.5	1247.7	1173.7	1137.0	1167.7	1238.7	1242.7	1255.7	1225.7
35°	1611.0	1596.9	1550.9	1465.2	1374.2	1290.8	1284.7	1364.8	1366.1	1379.9	1335.2
37.5°	1832.1	1820.4	1771.4	1687.4	1597.7	1482.6	1426.9	1484.2	1485.9	1499.3	1452.8
40°	1989.8	1994.9	1961.2	1896.1	1819.1	1693.4	1586.3	1611.3	1601.3	1623.7	1595.9
42.5°	2125.3	2135.3	2106.0	2073.3	2028.6	1917.9	1783.7	1779.4	1763.4	1775.4	1746.7
45°	2242.4	2250.7	2224.4	2216.7	2215.6	2137.9	1999.6	1973.5	1951.2	1948.8	1914.5
47.5°	2285.3	2301.4	2312.7	2338.4	2388.5	2355.8	2222.7	2182.3	2157.3	2139.0	2084.6
50°	2301.7	2318.8	2357.4	2432.1	2550.5	2564.5	2444.8	2399.4	2368.8	2335.5	2255.4
52.5°	2279.7	2310.0	2362.1	2487.9	2659.6	2732.0	2657.9	2618.3	2583.2	2528.9	2410.1
55°	2149.9	2180.3	2286.7	2487.2	2714.0	2849.4	2859.4	2841.7	2802.4	2716.7	2535.2
57.5°	1876.5	1921.5	2090.0	2402.5	2713.0	2950.5	3056.9	3069.6	3025.5	2902.8	2633.6
60°	1497.6	1558.6	1764.0	2214.7	2629.2	3005.2	3230.0	3293.3	3246.7	3086.2	2713.3
62.5°	1045.0	1115.7	1310.2	1920.5	2437.9	2965.8	3356.4	3473.4	3438.1	3250.3	2744.0
65°	637.3	660.1	816.8	1511.3	2112.3	2801.0	3395.4	3570.8	3559.2	3350.7	2698.6
67.5°	424.6	443.6	488.6	1036.3	1639.7	2471.8	3302.0	3553.8	3557.2	3334.3	2532.6
70°	255.8	272.1	301.6	602.7	1062.6	1956.5	3012.8	3337.0	3356.4	3115.9	2217.7
72.5°	105.4	116.4	143.1	273.2	550.3	1241.8	2399.1	2865.1	2910.1	2619.9	1702.0
75°	59.7	65.4	84.0	137.0	238.8	578.7	1453.2	2033.9	2100.2	1805.7	1024.0
77.5°	39.7	42.3	54.3	88.8	134.4	197.4	621.0	1059.6	1186.4	986.3	443.3
80°	26.6	29.0	37.3	59.3	87.4	84.8	197.8	392.6	483.0	338.9	108.0
82.5°	18.0	18.3	26.6	39.1	55.4	41.0	58.3	122.1	153.4	98.1	41.0
85°	10.4	10.0	19.7	22.7	24.7	17.0	17.6	36.7	48.1	41.3	23.4
87.5°	1.3	2.0	7.7	6.0	3.4	3.7	3.7	6.4	9.3	10.0	5.0
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°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	579.3	579.0	578.0	577.0	574.7	573.4	574.0	573.4	573.0	573.4	574.7
5°	583.7	582.7	580.0	576.7	572.1	566.3	562.7	557.3	552.4	549.3	550.0
7.5°	595.3	594.4	590.7	581.4	566.3	542.6	521.0	501.9	487.6	479.3	479.6
10°	614.1	612.3	606.7	586.0	546.6	495.0	451.9	416.3	392.9	381.9	380.9
12.5°	636.0	634.1	624.0	581.7	509.3	428.6	369.2	329.5	307.8	298.2	297.1
15°	662.0	659.4	639.7	561.0	454.9	355.3	300.8	271.2	257.2	248.5	248.8
17.5°	694.4	689.7	651.4	530.0	396.0	299.2	258.8	236.5	224.2	215.8	215.1
20°	736.5	728.8	660.7	492.9	341.5	263.8	230.5	211.8	202.4	195.2	193.8
22.5°	795.2	784.1	672.1	452.9	303.2	239.4	209.5	195.8	188.1	179.8	178.5
25°	867.9	854.8	686.0	415.9	276.9	218.4	194.1	182.8	173.7	164.1	163.1
27.5°	969.5	946.3	702.7	385.6	254.2	200.5	180.1	167.5	157.1	149.1	147.4
30°	1083.0	1044.7	717.4	367.3	233.5	183.8	161.7	149.1	139.4	133.8	132.7
32.5°	1190.4	1138.4	727.1	359.3	214.8	164.7	141.8	128.1	120.7	119.1	120.0
35°	1291.8	1223.0	726.1	351.6	198.1	145.8	122.1	108.0	102.4	103.4	103.4
37.5°	1408.6	1313.4	719.1	339.6	184.4	128.4	105.1	92.8	87.7	88.0	89.4
40°	1544.3	1417.9	714.7	316.8	169.4	112.4	91.0	81.1	77.4	76.1	75.7
42.5°	1689.0	1518.9	715.4	291.2	150.8	98.1	81.4	73.1	69.7	68.7	68.4
45°	1834.4	1615.3	716.5	264.4	131.1	87.0	74.4	67.3	65.4	64.1	64.1
47.5°	1971.2	1697.4	697.7	235.9	111.7	78.7	68.7	64.1	62.3	60.7	60.7
50°	2098.6	1752.0	652.7	202.4	96.4	72.1	64.4	61.0	59.3	57.7	57.7
52.5°	2197.7	1760.7	578.3	168.1	85.7	67.0	61.7	58.7	56.7	55.0	54.7
55°	2241.7	1706.4	472.6	136.1	77.4	62.7	59.0	56.1	53.7	52.1	51.7
57.5°	2230.4	1591.9	368.6	109.4	69.4	58.3	55.7	53.7	51.0	48.4	48.1
60°	2174.6	1438.9	277.9	91.0	62.0	53.7	52.1	50.3	46.7	42.7	42.0
62.5°	2078.3	1246.4	198.1	75.3	54.0	48.4	47.7	46.3	41.0	33.7	33.0
65°	1930.8	1012.6	133.5	62.7	46.3	42.3	42.7	40.4	33.3	25.0	24.4
67.5°	1715.3	740.5	85.4	51.4	38.6	35.4	35.7	34.3	28.4	21.3	20.3
70°	1440.8	490.3	55.7	39.1	31.1	27.4	29.3	29.7	24.0	17.3	16.7
72.5°	1056.3	289.5	39.1	29.0	22.7	19.0	24.0	24.7	19.4	13.0	12.3
75°	602.0	137.5	29.3	21.0	14.0	13.3	18.7	18.7	13.3	8.7	8.0
77.5°	252.9	57.4	20.7	13.6	8.0	7.7	12.7	11.7	6.7	4.0	4.0
80°	73.1	25.7	11.0	6.7	3.4	3.0	5.0	3.7	1.6	0.7	0.7
82.5°	28.7	11.4	4.3	2.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0
85°	17.0	4.7	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.0	0.7	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)