

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: P960301

Luminaire Tested: **NAV-SB1C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5486.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

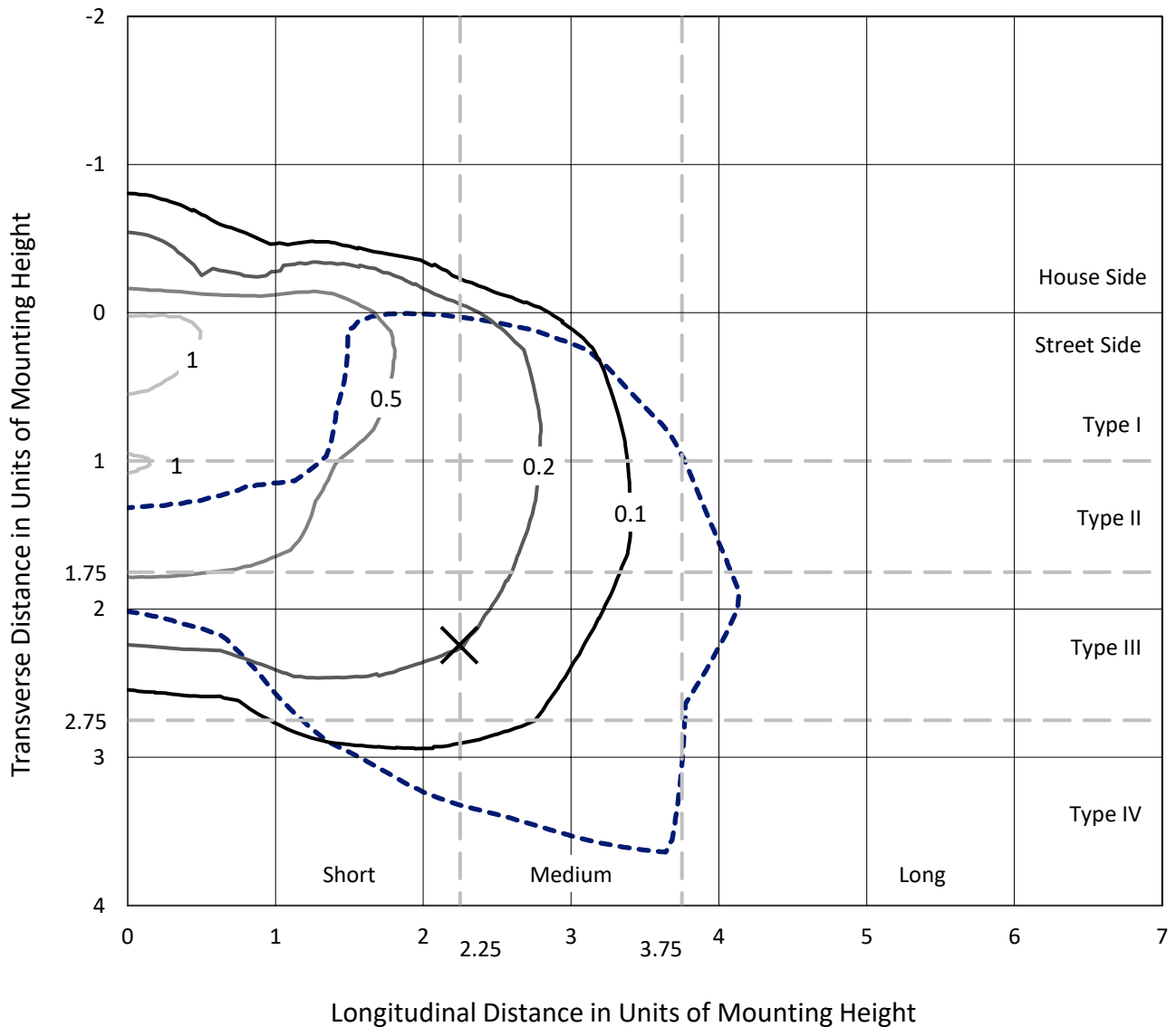
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

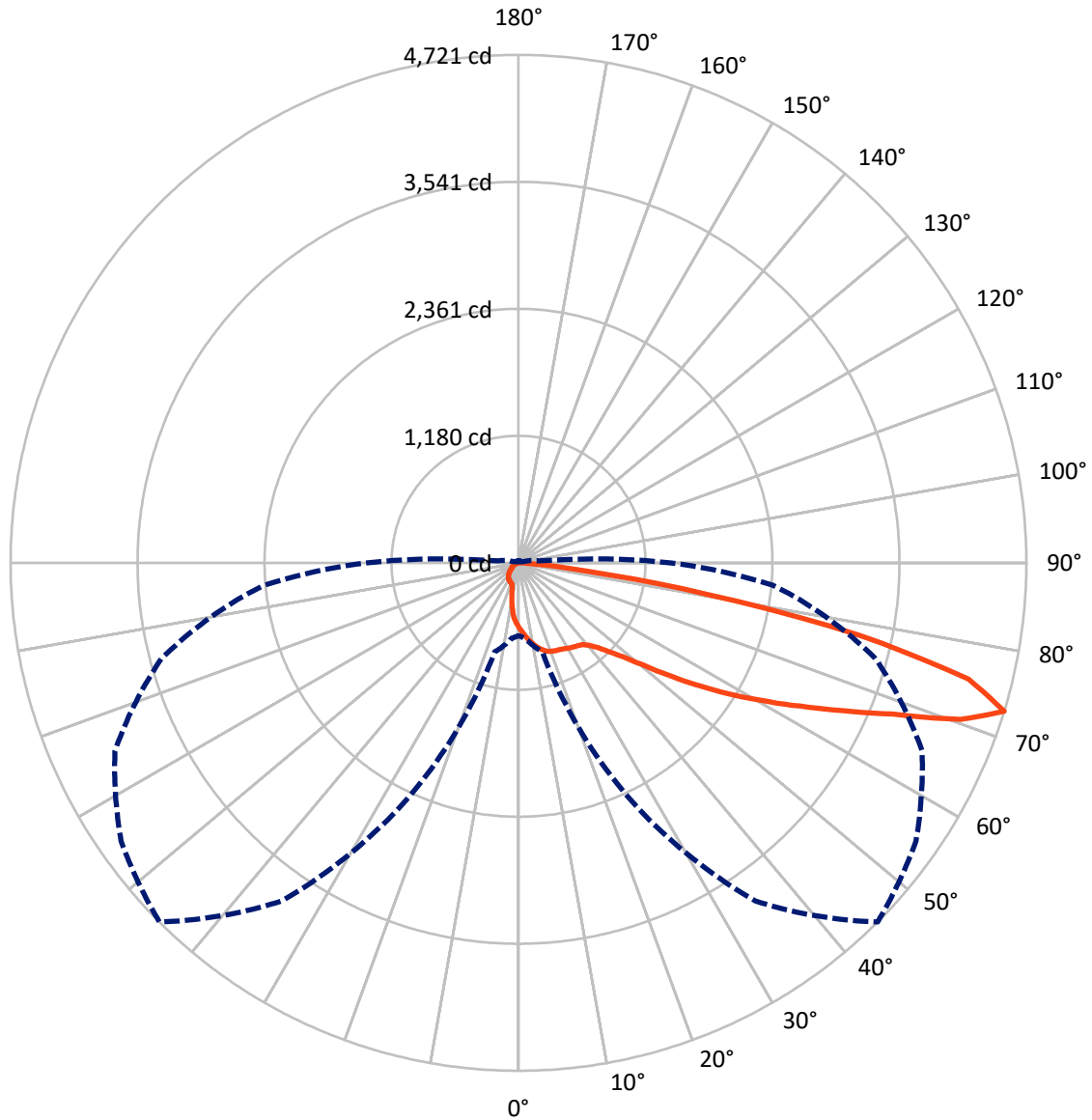
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.5	0.0	576.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4910.3	0.0	4910.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	5486.8	0.0	5486.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.0
10°-20°	165.5	3.0
20°-30°	271.8	5.0
30°-40°	385.5	7.0
40°-50°	637.2	11.6
50°-60°	1144.6	20.9
60°-70°	1589.4	29.0
70°-80°	1152.9	21.0
80°-90°	83.3	1.5
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°	5486.8	100.0
0°-180°	5486.8	100.0

Coefficient of Utilization



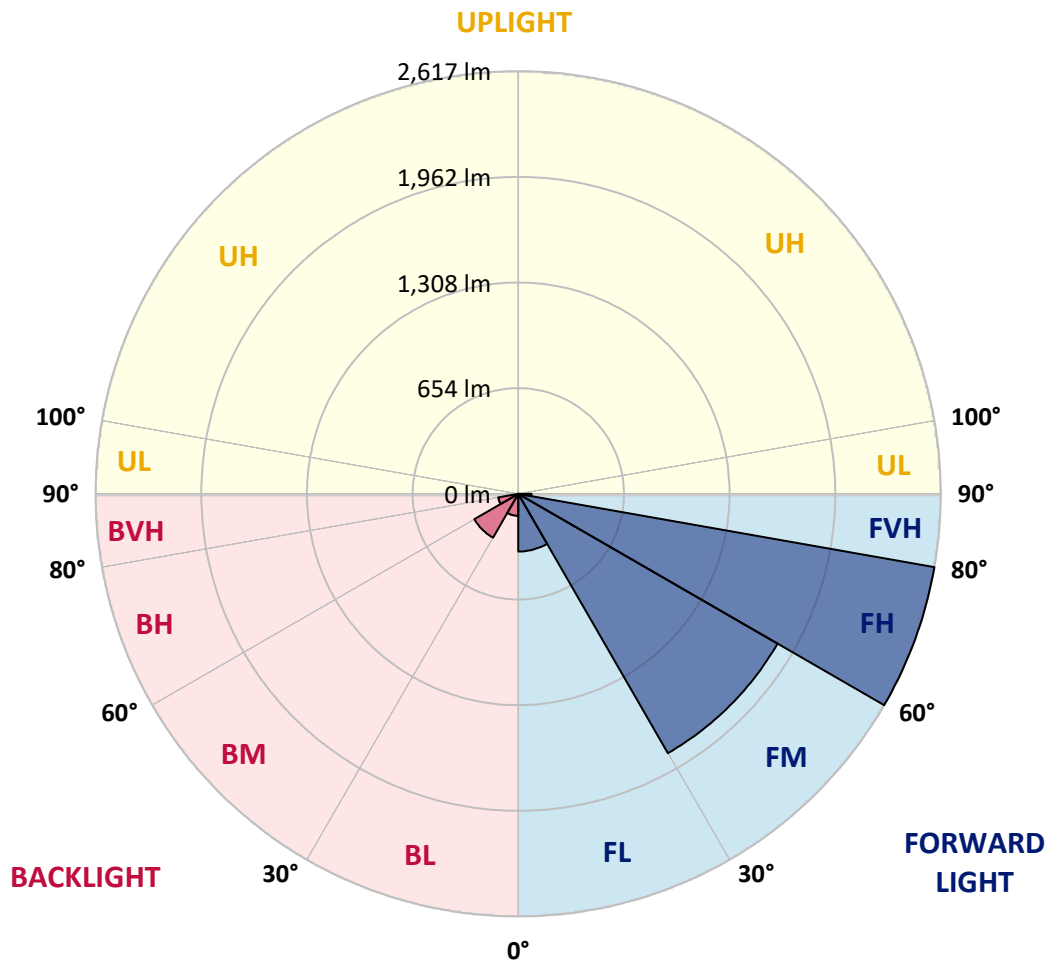
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.4	6.5			
FM	(30°-60°)	1853.7	33.8			
FH	(60°-80°)	2616.5	47.7			G2/5000
FVH	(80°-90°)	82.6	1.5			G1/100
BL	(0°-30°)	136.6	2.5	B1/500		
BM	(30°-60°)	313.5	5.7	B1/1000		
BH	(60°-80°)	125.7	2.3	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	35°	45°	46°	55°	65°	75°	85°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	656.5	657.6	656.9	652.4	644.9	640.8	638.6	631.1	626.2	617.6	608.5
5°	716.8	721.3	718.7	709.7	695.5	685.3	682.3	667.0	653.1	637.0	618.3
7.5°	780.8	783.1	778.3	766.6	747.5	730.3	727.6	706.3	684.2	659.5	634.1
10°	836.3	838.9	831.4	814.6	792.8	771.5	767.7	744.2	717.9	687.6	655.0
12.5°	882.7	885.4	875.7	855.4	831.4	809.3	805.5	780.8	752.0	718.3	677.8
15°	917.9	922.8	909.7	888.0	862.1	840.0	838.1	813.8	785.8	748.2	705.2
17.5°	938.5	943.4	931.0	904.9	882.7	864.0	861.7	841.5	815.3	779.4	731.7
20°	941.9	946.4	933.3	910.4	892.1	877.1	876.0	861.4	842.2	807.8	760.7
22.5°	931.8	937.4	925.5	907.0	894.3	886.5	885.0	876.8	865.9	836.7	787.6
25°	921.3	925.8	916.8	900.7	894.0	893.2	894.3	892.9	890.6	865.9	819.1
27.5°	920.6	925.5	915.3	900.0	896.3	904.0	905.2	912.4	914.2	892.5	849.4
30°	926.9	930.3	920.6	904.5	902.6	920.6	921.0	933.7	936.6	914.9	879.3
32.5°	940.7	944.5	934.8	911.2	908.6	933.7	934.8	951.6	956.5	938.9	910.8
35°	973.3	977.8	966.6	929.9	920.6	946.0	949.4	969.2	979.0	964.3	943.4
37.5°	1054.6	1041.5	1026.1	967.7	947.9	965.4	971.1	994.4	1011.6	994.7	982.4
40°	1256.4	1215.3	1167.4	1032.2	995.8	1007.1	1011.6	1034.7	1058.4	1041.9	1035.9
42.5°	1559.4	1510.7	1433.7	1180.5	1068.2	1073.7	1077.1	1097.4	1130.7	1117.6	1119.1
45°	1829.5	1811.9	1733.3	1433.7	1203.4	1175.6	1179.7	1190.2	1239.2	1234.4	1244.1
47.5°	2037.0	2026.8	1966.2	1724.3	1431.7	1300.3	1311.9	1316.8	1387.5	1404.8	1431.0
50°	2196.5	2192.8	2138.5	1982.7	1730.2	1484.2	1488.3	1477.8	1583.8	1626.5	1676.3
52.5°	2347.0	2359.9	2319.8	2222.7	2049.0	1725.0	1724.3	1674.8	1817.8	1882.3	1967.3
55°	2483.1	2487.5	2491.7	2467.7	2369.5	1999.2	1992.0	1911.1	2089.4	2156.1	2248.2
57.5°	2610.8	2612.6	2649.3	2698.4	2703.2	2293.5	2280.4	2183.5	2386.0	2433.6	2490.1
60°	2696.5	2705.1	2782.7	2919.0	2978.5	2597.2	2590.2	2491.3	2687.9	2710.0	2699.4
62.5°	2573.0	2625.3	2820.8	3091.2	3238.4	2934.0	2930.6	2837.7	3005.5	2987.5	2897.6
65°	2082.7	2171.5	2515.2	3207.7	3493.5	3309.9	3314.8	3215.9	3331.7	3273.2	3058.6
67.5°	1456.8	1550.5	1957.2	3217.1	3778.5	3751.5	3779.6	3624.5	3678.1	3547.0	3096.8
70°	1007.5	1055.8	1320.5	3015.5	4000.6	4359.7	4358.9	4126.3	4022.6	3671.8	2902.1
72.5°	677.5	702.6	857.6	2392.4	3837.3	4721.2	4699.4	4509.9	4138.7	3434.0	2371.0
75°	285.8	304.1	397.0	1344.5	3035.8	4319.2	4260.4	3985.6	3677.4	2704.0	1479.3
77.5°	90.6	98.5	156.5	481.2	1672.2	3246.7	3184.5	2489.0	2464.7	1356.5	540.8
80°	43.0	50.2	88.0	193.2	658.0	1765.9	1757.3	1129.1	1060.3	366.2	108.6
82.5°	18.8	22.1	48.7	103.3	294.4	630.0	642.7	384.3	318.0	139.0	33.3
85°	5.9	7.9	22.4	47.6	124.3	156.5	154.7	91.4	128.1	75.6	11.6
87.5°	0.0	0.0	7.5	10.9	12.7	9.0	10.1	7.9	35.6	21.0	4.1
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°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	604.1	598.1	587.6	577.9	569.3	560.7	555.4	547.9	547.1	547.1	549.0
5°	608.2	598.5	579.7	559.9	537.1	515.4	493.6	472.6	465.9	461.0	463.3
7.5°	620.2	604.9	575.2	537.4	493.9	446.4	413.1	377.1	363.3	355.8	356.9
10°	637.4	616.4	571.5	505.2	434.8	370.0	322.5	283.5	268.5	262.2	262.2
12.5°	656.5	630.7	564.8	465.1	370.0	292.5	246.1	228.1	225.8	225.8	225.8
15°	679.4	647.9	553.2	418.0	302.3	231.4	214.9	215.8	218.0	219.5	219.5
17.5°	702.9	666.2	534.8	365.1	242.3	208.3	208.6	209.7	211.6	213.1	213.1
20°	728.5	684.6	510.4	308.9	207.9	201.5	202.6	203.8	205.2	206.0	206.3
22.5°	755.7	701.8	481.6	253.9	196.3	195.9	196.3	197.4	199.3	199.3	200.0
25°	784.9	721.0	448.6	213.8	190.2	190.2	191.0	191.8	193.2	193.2	193.6
27.5°	815.0	738.5	413.8	192.9	185.0	184.6	184.6	185.7	186.5	186.9	187.3
30°	847.9	759.1	379.0	188.4	180.9	179.1	177.9	178.7	179.4	179.8	180.5
32.5°	881.6	779.0	347.9	190.2	176.8	173.4	169.6	168.9	168.9	170.4	171.5
35°	919.0	800.7	324.0	196.6	174.6	165.1	159.2	155.8	156.2	158.5	159.6
37.5°	964.0	827.0	306.4	202.2	173.0	155.8	146.1	142.0	139.3	142.0	141.1
40°	1022.7	865.5	293.7	206.7	171.2	144.9	131.8	125.0	120.2	121.7	121.0
42.5°	1109.4	926.2	288.7	207.2	167.1	132.2	117.3	108.2	101.2	101.5	100.0
45°	1230.6	1022.0	313.9	202.2	158.1	118.4	101.9	89.9	85.4	84.3	82.7
47.5°	1397.0	1161.7	371.9	192.1	144.9	104.9	86.9	76.8	73.4	71.5	70.4
50°	1619.8	1341.1	436.3	180.9	131.8	92.1	74.5	68.2	65.9	64.1	63.7
52.5°	1878.2	1523.1	489.1	169.6	118.7	80.9	66.6	62.9	61.1	59.6	59.1
55°	2115.3	1648.6	486.2	157.6	106.0	72.0	61.1	58.8	56.6	55.0	54.3
57.5°	2262.8	1666.2	400.8	144.5	91.4	64.8	55.8	54.3	51.7	49.8	49.4
60°	2330.6	1565.8	280.8	127.3	76.8	58.0	50.2	49.4	46.0	43.5	42.7
62.5°	2342.9	1379.3	187.3	106.0	64.1	51.7	44.6	43.5	38.9	34.4	32.2
65°	2292.7	1112.6	129.6	82.7	54.6	44.9	38.2	36.0	31.1	26.5	25.1
67.5°	2133.9	781.3	90.3	59.6	46.4	35.6	30.3	29.6	25.8	22.1	21.0
70°	1843.0	445.3	60.3	44.6	36.7	24.3	24.0	24.7	21.0	17.9	16.5
72.5°	1413.1	203.8	37.4	32.6	25.1	16.5	19.1	19.5	16.1	13.5	12.0
75°	831.8	87.2	23.6	21.0	12.7	10.9	13.8	14.2	10.9	8.6	7.5
77.5°	283.1	33.0	15.0	12.4	6.4	5.9	9.0	9.0	5.9	3.4	2.7
80°	64.4	12.4	7.5	4.8	3.0	2.7	3.0	2.7	1.5	0.4	0.0
82.5°	18.3	4.8	3.0	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0
85°	5.2	2.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.4	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)