

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: P961315

Luminaire Tested: **NAV-SB2A-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5805.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

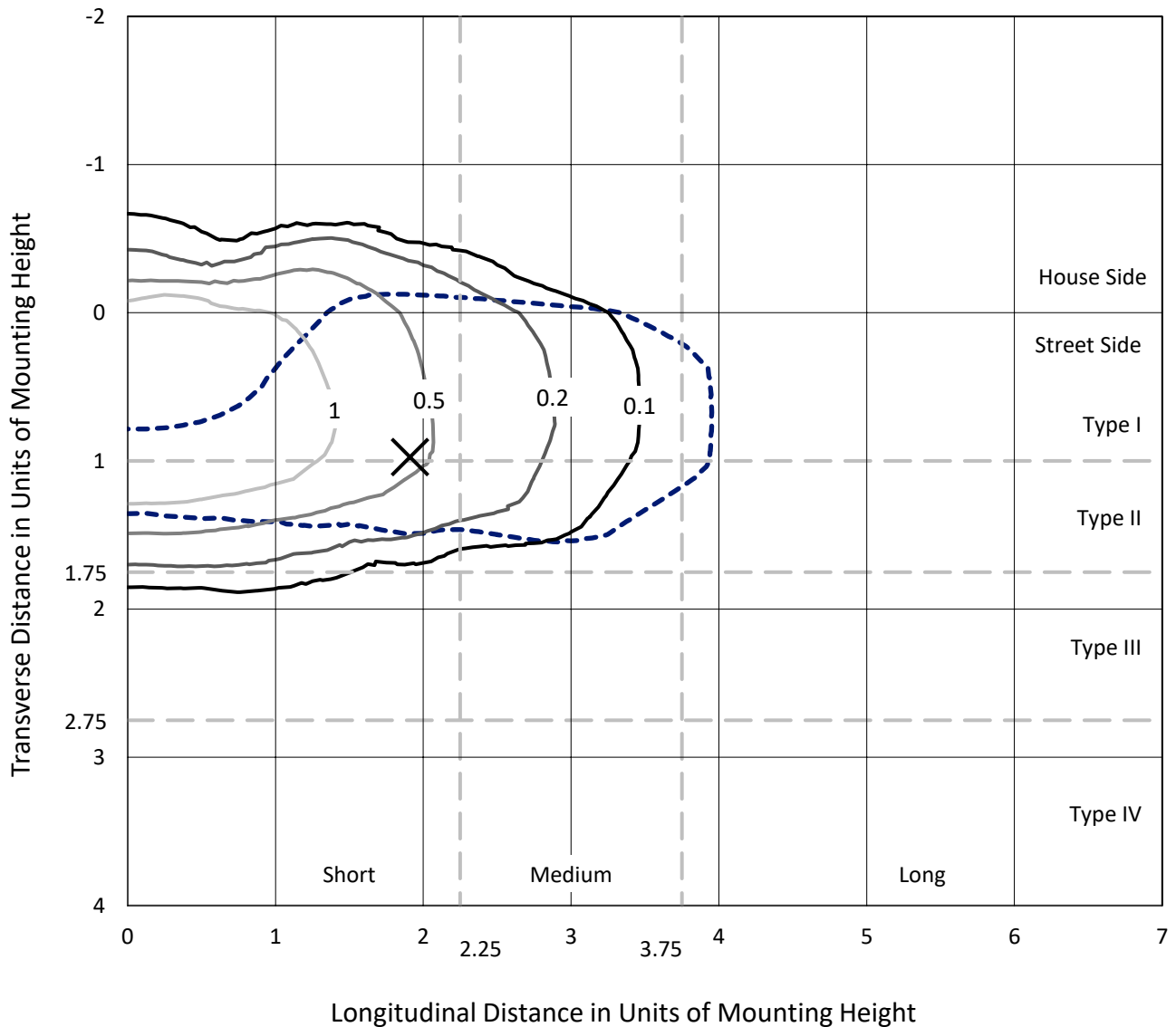
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

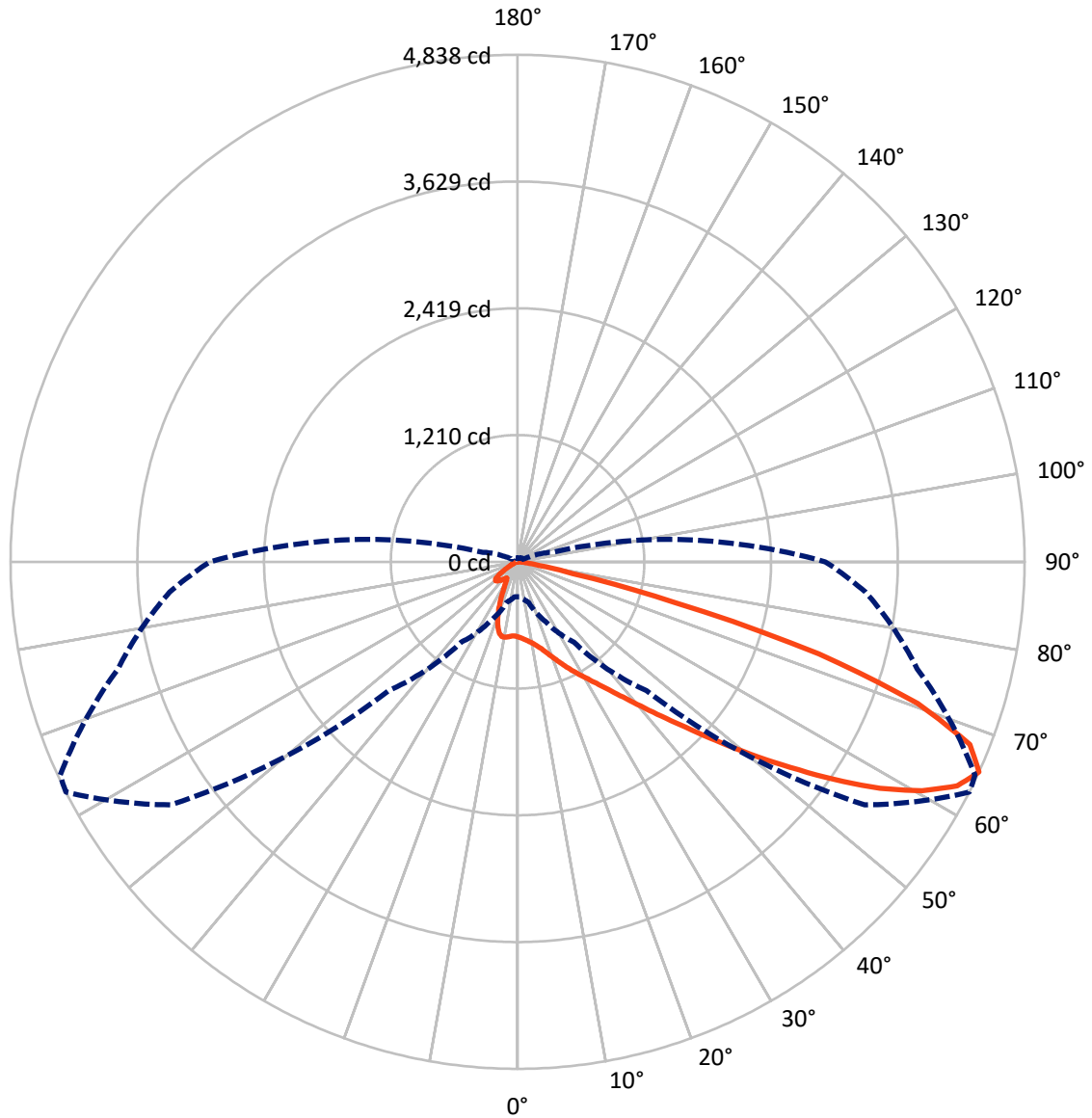
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	853.4	0.0	853.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4952.2	0.0	4952.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	5805.6	0.0	5805.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.2
10°-20°	187.3	3.2
20°-30°	326.2	5.6
30°-40°	587.9	10.1
40°-50°	1165.9	20.1
50°-60°	1588.2	27.4
60°-70°	1267.7	21.8
70°-80°	573.7	9.9
80°-90°	41.2	0.7
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°	5805.6	100.0
0°-180°	5805.6	100.0

Coefficient of Utilization



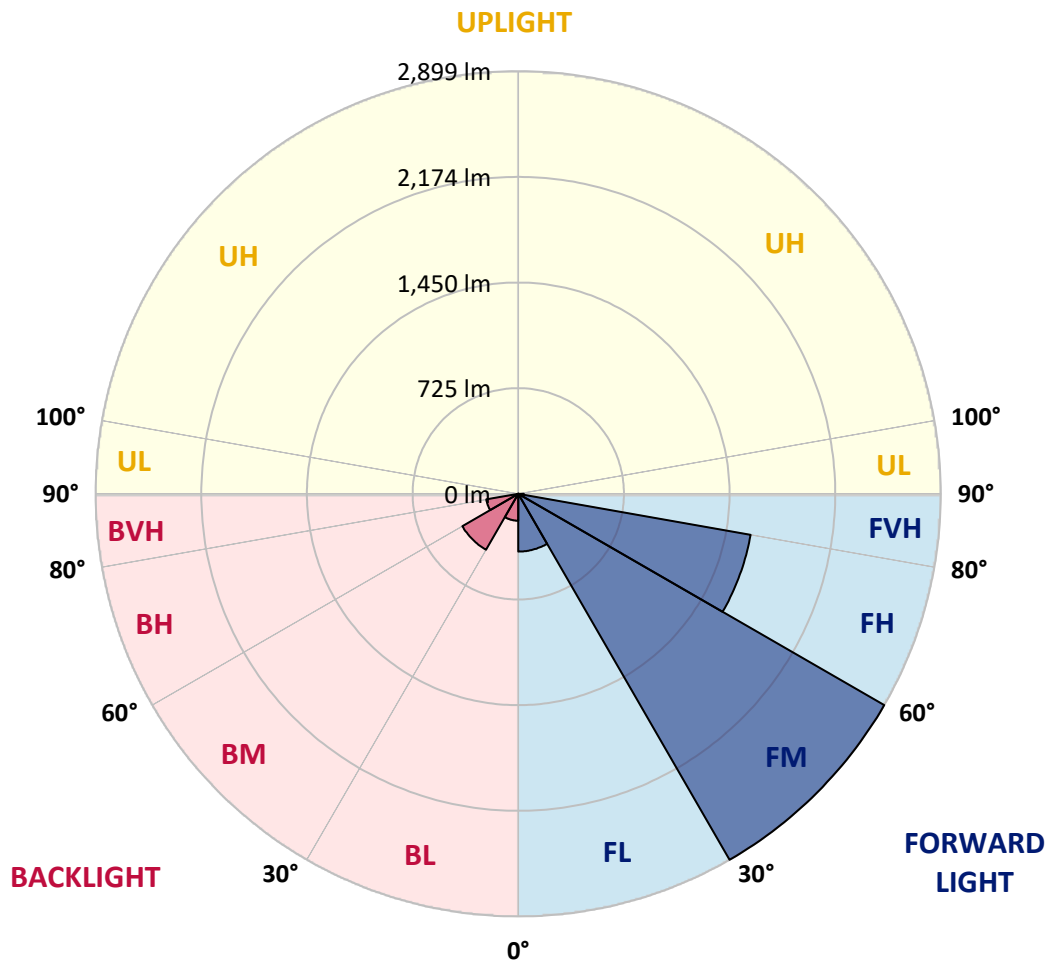
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.3	6.8			
FM (30°-60°)	2899.2	49.9			
FH (60°-80°)	1618.6	27.9			G1/1800
FVH (80°-90°)	38.2	0.7			G1/100
BL (0°-30°)	184.7	3.2	B1/500		
BM (30°-60°)	442.9	7.6	B1/1000		
BH (60°-80°)	222.8	3.8	B1/500		G1/500
BVH (80°-90°)	3.1	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5
2.5°	733.3	731.3	734.1	732.9	732.1	730.5	729.7	728.9	727.3	726.1	721.3
5°	735.3	734.1	736.9	739.3	741.7	744.0	745.3	746.9	745.3	742.1	737.3
7.5°	718.5	717.7	723.8	730.9	741.7	750.9	760.9	766.5	766.8	765.7	760.4
10°	717.3	715.3	721.3	730.1	744.0	760.4	778.1	790.0	791.6	796.8	791.2
12.5°	736.1	734.1	742.5	752.0	766.5	783.6	805.1	821.9	824.4	831.6	827.6
15°	767.6	764.9	774.4	786.8	805.1	824.7	847.6	862.7	864.7	873.5	866.3
17.5°	804.4	801.6	812.8	825.9	845.9	872.7	899.0	915.8	918.2	923.8	910.6
20°	851.5	847.9	856.7	868.7	889.9	921.8	953.4	977.3	976.9	976.9	955.4
22.5°	906.2	900.7	908.3	917.8	937.8	976.5	1018.4	1046.8	1046.8	1035.7	1000.1
25°	964.9	959.4	967.7	976.5	994.1	1038.0	1087.1	1122.3	1123.9	1104.7	1048.1
27.5°	1038.4	1031.3	1037.6	1048.1	1058.4	1103.1	1161.4	1202.2	1202.9	1173.4	1093.6
30°	1179.8	1159.5	1139.5	1128.3	1133.1	1177.4	1239.7	1284.8	1288.8	1248.1	1143.1
32.5°	1438.6	1434.6	1364.4	1272.4	1224.6	1257.3	1327.2	1381.5	1384.0	1331.6	1207.3
35°	1840.8	1836.1	1723.0	1548.1	1391.9	1364.4	1433.5	1497.7	1496.2	1437.0	1290.9
37.5°	2320.9	2316.5	2167.6	1933.5	1680.7	1526.1	1570.4	1637.9	1647.9	1570.4	1398.7
40°	2731.1	2714.7	2620.4	2394.8	2064.0	1794.5	1765.4	1810.0	1820.5	1728.6	1535.7
42.5°	3041.8	3027.8	2979.9	2838.9	2528.2	2191.4	1995.0	2012.2	2023.8	1913.5	1693.1
45°	3202.8	3199.5	3218.7	3205.6	3001.1	2678.7	2323.3	2251.8	2256.2	2118.4	1871.5
47.5°	3225.6	3223.9	3311.4	3435.2	3407.7	3228.3	2744.6	2550.5	2535.0	2349.7	2065.7
50°	3091.3	3088.1	3255.9	3488.0	3679.2	3690.0	3223.1	2887.2	2852.9	2588.9	2268.2
52.5°	2662.7	2662.0	2937.5	3323.8	3774.7	4094.3	3696.0	3257.1	3199.5	2842.1	2482.2
55°	2048.9	2063.7	2379.6	2836.2	3600.6	4288.7	4120.6	3667.7	3579.4	3096.9	2679.6
57.5°	1451.4	1473.0	1785.3	2191.9	3060.5	4173.7	4407.8	4079.1	3984.0	3350.9	2879.6
60°	779.6	798.8	1111.5	1596.7	2276.9	3744.7	4559.1	4436.1	4346.2	3592.2	3060.2
62.5°	464.5	470.9	600.3	1030.8	1540.1	2860.9	4494.8	4708.1	4634.2	3794.7	3217.2
65°	333.5	334.7	399.7	629.5	935.0	1738.2	4043.9	4838.3	4815.6	3947.3	3333.4
67.5°	280.7	279.9	307.1	418.2	637.0	870.7	3099.3	4654.2	4750.9	4043.9	3399.3
70°	240.9	242.0	274.0	306.4	478.9	492.8	1540.9	4052.3	4258.4	4069.5	3395.3
72.5°	179.4	183.4	212.9	279.2	361.4	339.1	532.0	3004.7	3377.3	3834.2	3219.1
75°	126.6	128.6	149.8	234.8	269.6	246.8	271.6	1553.3	2030.9	2939.6	2634.9
77.5°	97.5	101.1	113.5	164.1	265.6	173.3	166.2	537.6	825.9	1775.7	1806.5
80°	52.7	59.1	81.9	118.6	186.5	122.6	82.3	214.1	279.9	830.4	696.6
82.5°	27.2	30.3	57.1	85.5	106.2	107.0	40.7	89.1	115.4	256.5	95.4
85°	10.8	13.2	38.3	47.2	54.7	52.7	18.3	36.0	41.5	71.1	29.1
87.5°	2.4	4.0	13.9	10.8	10.4	11.2	4.4	8.4	8.0	8.4	5.2
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°	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5
2.5°	720.9	719.3	714.9	710.1	704.6	701.3	699.4	698.9	696.2	694.1	696.2
5°	732.9	731.3	722.9	712.9	702.1	693.7	685.7	678.6	668.2	666.1	665.4
7.5°	756.9	752.5	738.9	725.3	704.9	680.6	651.0	617.0	586.7	577.5	573.2
10°	786.4	780.4	763.2	739.3	694.1	627.8	556.4	490.1	437.4	422.6	417.0
12.5°	820.0	814.8	792.0	747.6	649.0	528.8	419.3	337.1	286.0	273.2	269.6
15°	859.9	852.3	820.7	734.9	568.4	401.8	287.9	239.2	220.9	218.4	216.1
17.5°	902.2	889.9	846.3	689.0	459.7	285.6	222.4	208.5	200.5	198.1	196.9
20°	941.0	925.0	861.5	619.5	343.5	222.4	199.3	190.1	183.0	180.1	178.6
22.5°	979.7	956.9	861.5	524.8	257.6	197.3	183.0	174.6	166.2	162.6	160.5
25°	1020.1	989.7	846.3	419.3	207.3	180.9	167.4	158.2	151.0	146.6	144.9
27.5°	1059.2	1017.3	811.6	319.5	184.5	166.6	152.9	144.2	137.4	134.2	134.2
30°	1096.3	1044.5	762.8	242.4	169.7	152.5	139.8	132.2	125.5	122.2	122.6
32.5°	1146.7	1078.8	710.9	198.8	156.9	139.4	127.8	120.6	114.6	112.2	112.2
35°	1216.6	1129.4	666.1	195.3	146.2	128.6	117.1	110.2	104.2	102.3	102.3
37.5°	1315.6	1211.3	642.7	219.2	137.4	119.0	108.2	101.1	95.4	93.9	93.5
40°	1437.9	1322.5	655.4	243.2	131.4	110.6	100.2	93.1	88.3	86.3	85.9
42.5°	1582.8	1459.4	726.1	261.6	127.4	103.4	92.7	84.7	81.5	80.7	80.7
45°	1749.4	1610.0	834.4	281.2	121.1	96.7	85.1	79.1	76.7	76.3	75.8
47.5°	1938.7	1775.3	959.7	305.6	114.6	90.3	79.1	75.1	73.1	72.3	72.3
50°	2126.4	1941.9	1088.8	319.1	109.5	84.3	74.3	71.1	69.5	69.1	69.1
52.5°	2322.9	2113.2	1193.0	306.4	105.1	79.4	70.3	67.9	66.3	65.9	65.9
55°	2510.2	2251.8	1210.9	260.0	96.2	74.7	65.9	64.7	62.7	62.7	62.3
57.5°	2671.6	2321.3	1083.9	191.0	87.4	67.5	61.5	60.3	58.7	58.3	57.9
60°	2819.8	2301.3	836.7	128.6	77.9	60.3	56.0	55.1	53.5	51.6	51.1
62.5°	2903.2	2213.5	572.4	83.8	68.3	52.7	49.5	49.1	45.5	41.5	40.7
65°	2934.8	2033.0	357.1	61.1	57.1	45.1	42.7	41.9	36.7	32.4	32.0
67.5°	2907.2	1735.7	180.1	48.3	45.1	37.5	35.2	35.2	31.6	27.6	27.2
70°	2797.0	1301.2	75.8	38.7	34.7	28.8	28.8	30.3	26.8	22.3	21.9
72.5°	2557.8	875.5	40.4	29.5	25.9	20.4	23.6	24.8	21.2	16.8	16.8
75°	2033.3	534.0	28.0	21.9	16.4	14.3	17.9	18.8	14.3	11.2	10.8
77.5°	1390.7	306.8	18.8	13.9	10.4	8.4	12.4	11.6	7.6	5.2	5.6
80°	610.7	127.8	10.8	6.4	4.0	3.2	4.4	3.2	2.4	1.6	1.6
82.5°	71.4	29.9	4.0	2.4	1.6	0.8	0.4	0.0	0.0	0.0	0.0
85°	14.8	3.6	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.8	0.4	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)