

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: P962879

Luminaire Tested: **NAV-SB2D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14692.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

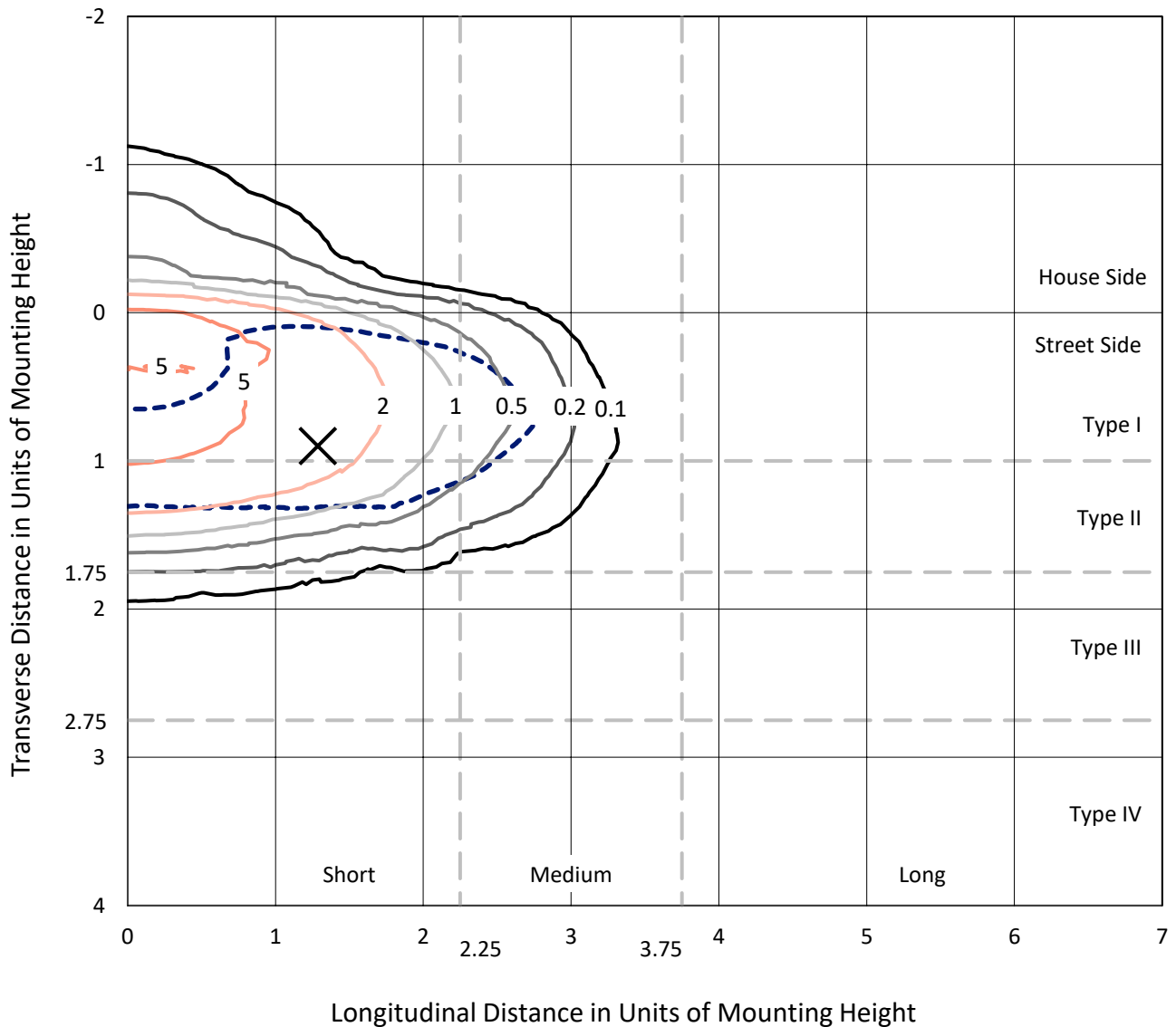
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

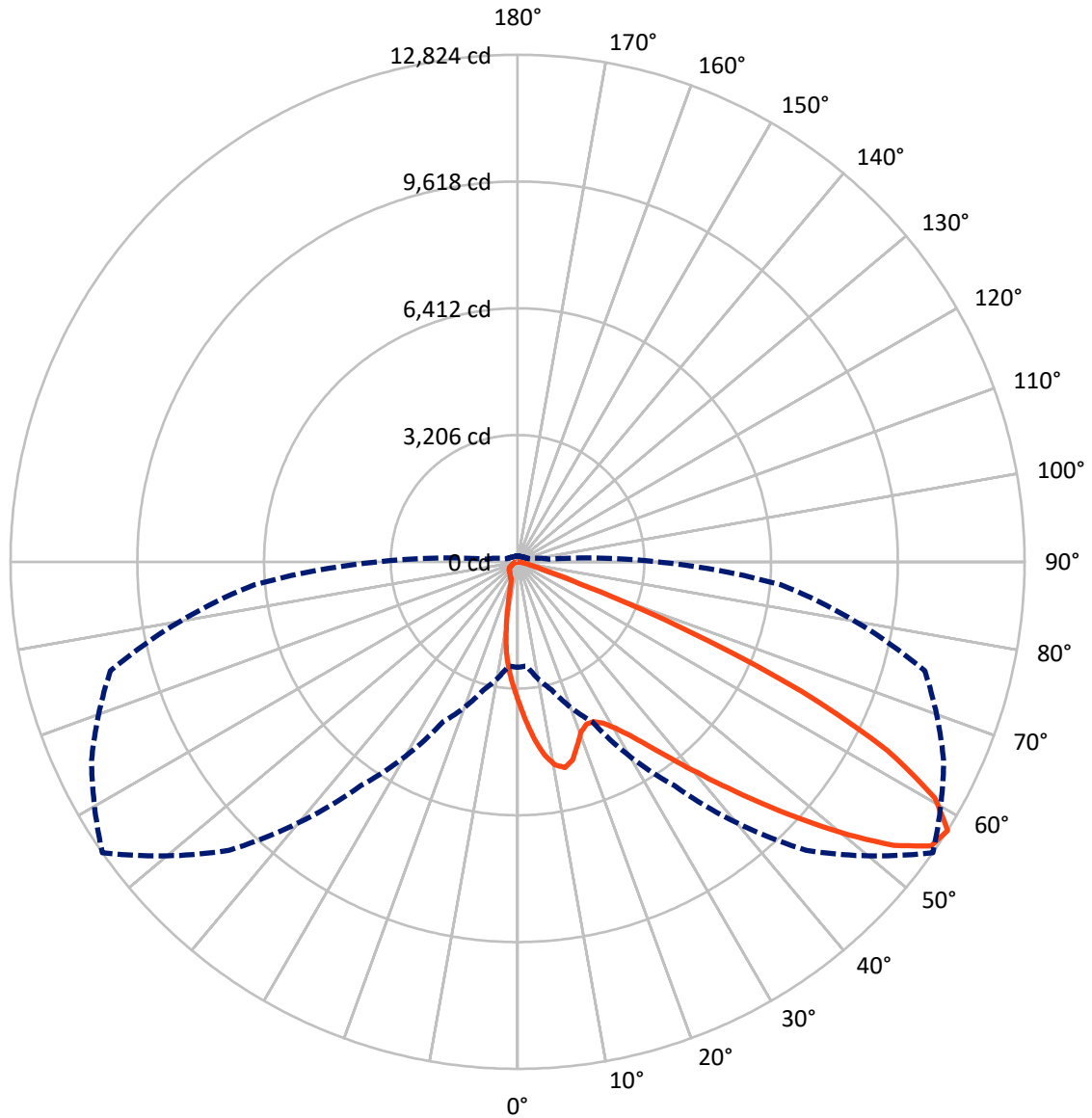
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.4	0.0	1147.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	13544.9	0.0	13544.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	14692.3	0.0	14692.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	2.2
10°-20°	795.7	5.4
20°-30°	1273.1	8.7
30°-40°	2154.9	14.7
40°-50°	3537.9	24.1
50°-60°	3888.4	26.5
60°-70°	2230.4	15.2
70°-80°	455.7	3.1
80°-90°	26.9	0.2
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°	14692.3	100.0
0°-180°	14692.3	100.0

Coefficient of Utilization

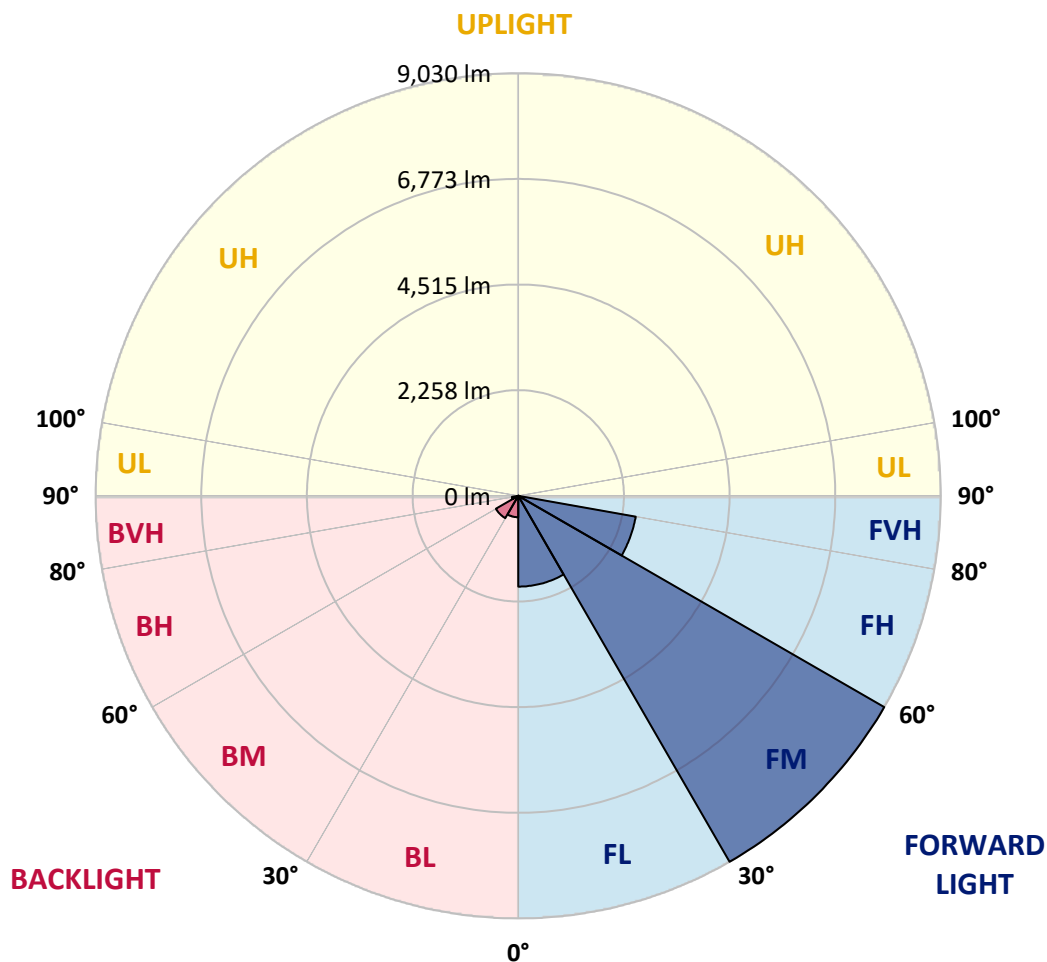


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.2	13.2			
FM (30°-60°)	9030.0	61.5			
FH (60°-80°)	2549.6	17.4			G2/5000
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	458.1	3.1	B1/500		
BM (30°-60°)	551.1	3.8	B1/1000		
BH (60°-80°)	136.5	0.9	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5
2.5°	4393.0	4337.7	4329.6	4318.7	4213.7	4134.8	4020.7	3895.6	3755.2	3612.1	3548.7
5°	5075.2	5031.7	5023.5	4972.8	4853.3	4719.1	4516.3	4259.8	3998.0	3690.0	3557.7
7.5°	5207.5	5199.3	5236.4	5234.7	5218.4	5112.3	4941.1	4635.8	4242.6	3786.0	3581.2
10°	4617.7	4638.5	4749.0	4846.0	5107.8	5260.0	5222.9	4971.0	4494.4	3895.6	3607.5
12.5°	4080.4	4056.0	4134.8	4244.4	4548.8	5001.8	5339.7	5251.0	4782.5	4019.7	3646.5
15°	3743.4	3733.5	3777.8	3828.6	4060.5	4517.1	5203.8	5478.3	5059.8	4166.5	3705.4
17.5°	3635.6	3627.5	3641.0	3653.7	3804.1	4157.5	4880.4	5617.8	5325.3	4334.1	3770.6
20°	3723.5	3712.7	3710.8	3700.9	3763.4	4004.4	4587.8	5627.9	5563.5	4486.3	3826.7
22.5°	3979.9	3967.2	3922.8	3882.9	3888.3	4025.2	4457.3	5528.1	5742.9	4628.6	3862.1
25°	4444.6	4423.8	4331.4	4197.3	4112.2	4170.1	4477.3	5396.8	5914.1	4740.0	3844.9
27.5°	5026.3	4999.1	4880.4	4681.1	4486.3	4415.7	4621.3	5306.2	6056.3	4825.2	3807.8
30°	5596.1	5560.8	5443.9	5289.0	5004.6	4781.6	4881.4	5346.1	6225.7	4914.0	3758.9
32.5°	6211.3	6177.8	6022.8	5830.7	5595.2	5295.4	5237.3	5540.8	6433.2	5038.1	3724.4
35°	6989.5	6936.9	6716.8	6454.9	6204.9	5901.4	5719.3	5876.9	6709.5	5227.4	3743.4
37.5°	7875.5	7804.9	7567.5	7206.1	6879.9	6540.1	6306.4	6339.0	7114.5	5481.1	3802.3
40°	8710.9	8646.5	8427.2	8086.6	7677.1	7264.9	7015.7	6943.2	7673.5	5790.0	3905.6
42.5°	9211.8	9153.9	9061.4	8917.4	8572.2	8151.8	7837.5	7680.7	8334.8	6159.6	4031.5
45°	9239.9	9189.1	9313.3	9480.8	9412.9	9133.0	8749.8	8462.6	8998.9	6506.6	4162.0
47.5°	8790.5	8756.1	9133.0	9718.2	10009.9	10127.7	9774.4	9179.2	9547.1	6755.8	4215.4
50°	7565.6	7553.0	8328.5	9402.9	10237.4	10999.3	10855.3	9845.9	9971.9	6884.4	4164.7
52.5°	6560.1	6513.9	6965.9	8393.7	9906.7	11457.7	11911.5	10500.1	10269.1	6908.8	4046.0
55°	4975.6	4934.8	5501.9	6705.0	8840.3	11294.6	12684.4	11175.1	10482.0	6846.4	3833.1
57.5°	2669.0	2643.6	3360.3	4462.7	6910.7	10316.2	12823.9	11888.9	10661.3	6680.5	3535.0
60°	1039.1	1034.6	1302.8	2165.2	4200.0	8392.8	12119.9	12317.4	10773.7	6476.7	3285.9
62.5°	628.7	642.4	685.8	972.1	1855.5	5213.8	10497.3	11830.0	10848.9	6290.1	3080.2
65°	520.0	520.9	526.3	667.7	888.8	2181.5	7902.6	10226.5	10663.2	5957.6	2788.5
67.5°	445.8	453.9	474.7	530.0	626.9	956.7	4549.8	7921.7	9533.4	5183.9	2333.7
70°	351.5	362.3	388.7	435.7	483.8	598.8	1681.5	5270.9	7283.0	3907.4	1764.8
72.5°	296.2	295.3	308.9	354.2	384.2	421.3	646.9	2953.4	4232.6	1865.4	873.3
75°	229.2	238.3	255.4	296.2	314.4	305.3	350.7	1079.0	1516.6	565.3	297.1
77.5°	179.4	186.7	202.0	241.9	260.0	216.5	202.0	385.9	487.4	203.0	134.1
80°	80.7	87.0	137.7	178.5	212.0	149.4	109.6	197.5	216.5	92.5	68.0
82.5°	14.5	24.5	80.7	94.2	108.8	97.0	57.1	102.4	106.0	37.1	23.6
85°	0.9	1.8	28.1	34.4	43.5	31.7	17.2	40.8	35.4	12.7	9.0
87.5°	0.0	0.0	0.0	0.9	0.9	4.5	5.4	7.3	5.4	4.5	3.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5
2.5°	3483.5	3354.7	3229.8	3127.4	3067.6	2966.1	2899.1	2888.2	2860.2	2884.6
5°	3416.4	3186.2	2953.4	2745.1	2573.9	2352.8	2187.9	2118.2	2057.5	2078.3
7.5°	3384.7	3021.4	2659.0	2303.0	1936.9	1583.6	1320.9	1211.2	1127.9	1139.7
10°	3342.1	2850.1	2282.2	1738.5	1248.4	899.6	718.4	651.4	614.3	615.1
12.5°	3309.5	2645.4	1844.5	1178.6	760.1	574.4	518.2	501.9	491.1	491.9
15°	3293.1	2404.4	1412.3	785.5	543.6	486.5	472.9	465.7	458.4	457.6
17.5°	3266.0	2136.3	1033.7	573.5	475.6	455.7	443.9	435.7	426.7	424.9
20°	3225.3	1831.9	755.5	484.7	445.8	430.3	414.0	403.1	392.3	390.4
22.5°	3150.0	1510.2	580.8	448.4	423.9	406.8	386.8	374.1	363.3	361.5
25°	3010.5	1208.6	489.2	425.8	405.0	384.2	362.3	345.2	335.2	333.4
27.5°	2833.8	949.5	443.9	405.0	380.5	361.5	337.0	320.7	311.6	309.9
30°	2625.4	731.1	417.7	381.4	351.5	335.2	313.4	299.9	294.5	294.5
32.5°	2400.8	584.4	406.8	357.8	326.2	308.0	290.8	285.4	283.5	282.7
35°	2189.7	507.4	401.4	338.9	303.5	286.3	279.0	279.9	283.5	283.5
37.5°	2002.1	482.9	398.6	325.2	283.5	268.1	272.6	280.8	277.3	277.3
40°	1832.8	485.6	396.8	315.3	267.2	258.2	267.2	261.0	251.8	250.9
42.5°	1703.2	508.2	393.2	307.1	257.3	250.9	247.3	237.4	236.5	238.3
45°	1608.9	528.2	392.3	303.5	246.4	234.6	230.1	220.2	238.3	242.8
47.5°	1497.5	528.2	392.3	290.8	228.3	223.8	216.5	205.6	223.8	228.3
50°	1353.5	494.7	376.9	276.3	213.8	211.0	198.4	184.8	181.2	183.9
52.5°	1171.4	434.0	337.9	256.4	199.4	193.8	178.5	168.5	165.7	165.7
55°	963.9	363.3	285.4	227.3	183.9	173.9	163.1	158.6	155.8	154.1
57.5°	783.6	298.1	229.2	202.0	169.4	156.7	153.1	147.7	143.2	140.4
60°	643.2	234.6	189.3	179.4	154.9	143.2	142.3	135.0	123.2	121.4
62.5°	496.5	172.1	159.5	155.8	140.4	130.5	128.6	114.2	96.0	92.5
65°	350.7	134.1	128.6	136.8	125.0	115.9	111.4	89.7	70.6	68.0
67.5°	246.4	112.3	101.5	119.6	108.8	97.0	94.2	76.1	58.9	57.1
70°	175.8	91.5	83.3	102.4	87.0	85.2	79.7	63.4	48.0	46.2
72.5°	124.1	69.8	64.4	88.8	59.8	73.4	65.2	48.9	36.3	34.4
75°	91.5	49.8	45.3	51.7	43.5	55.2	46.2	32.6	22.7	21.7
77.5°	67.0	31.7	27.2	25.3	25.3	34.4	25.3	13.6	9.9	9.0
80°	47.2	14.5	12.7	10.9	9.9	8.2	3.6	1.8	0.9	0.9
82.5°	28.1	6.4	6.4	4.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	6.4	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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

(END OF REPORT)