

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: P964460

Luminaire Tested: **NAV-SB3C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964460
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-SB3C-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA 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: 16222.7 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

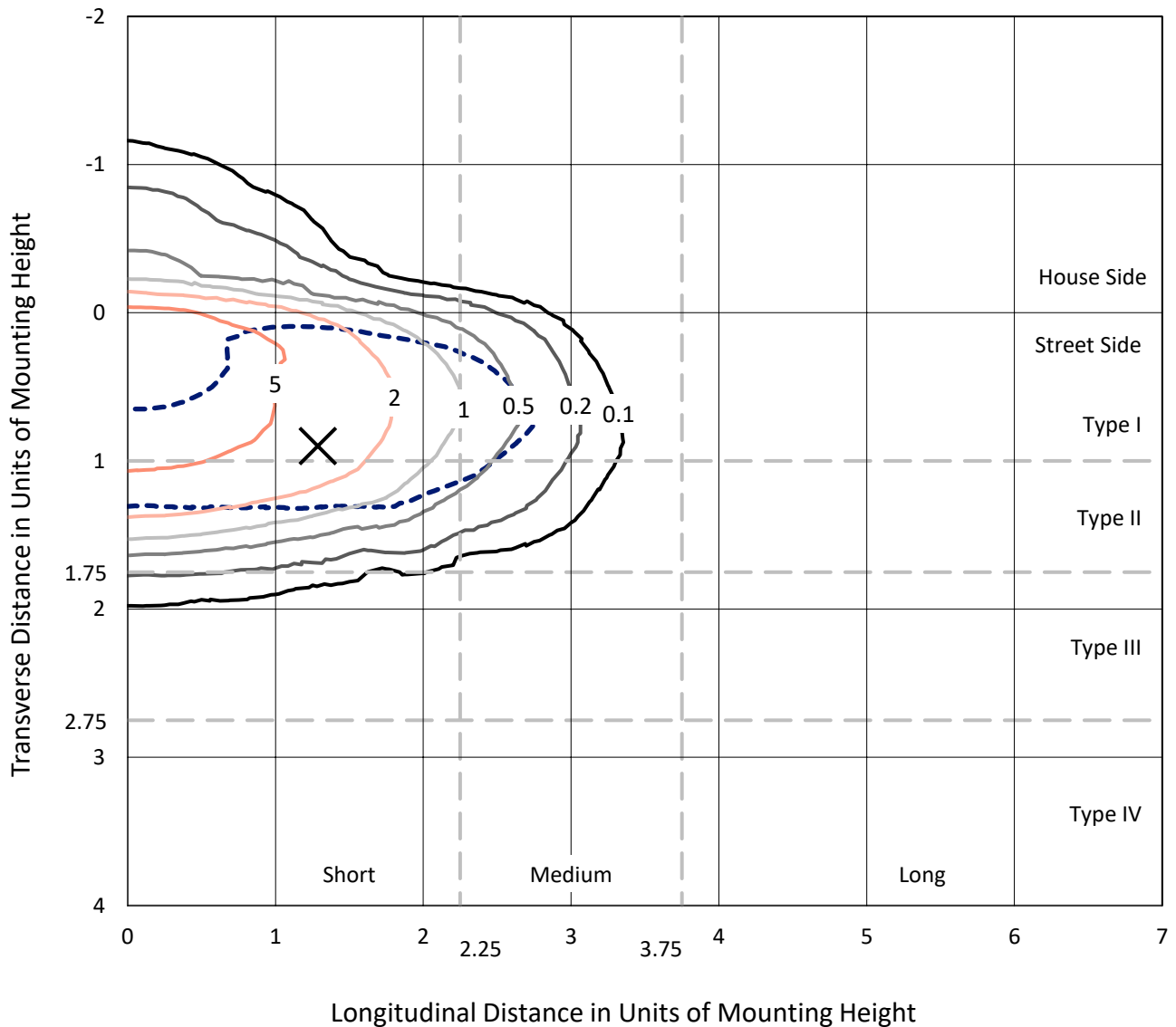
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

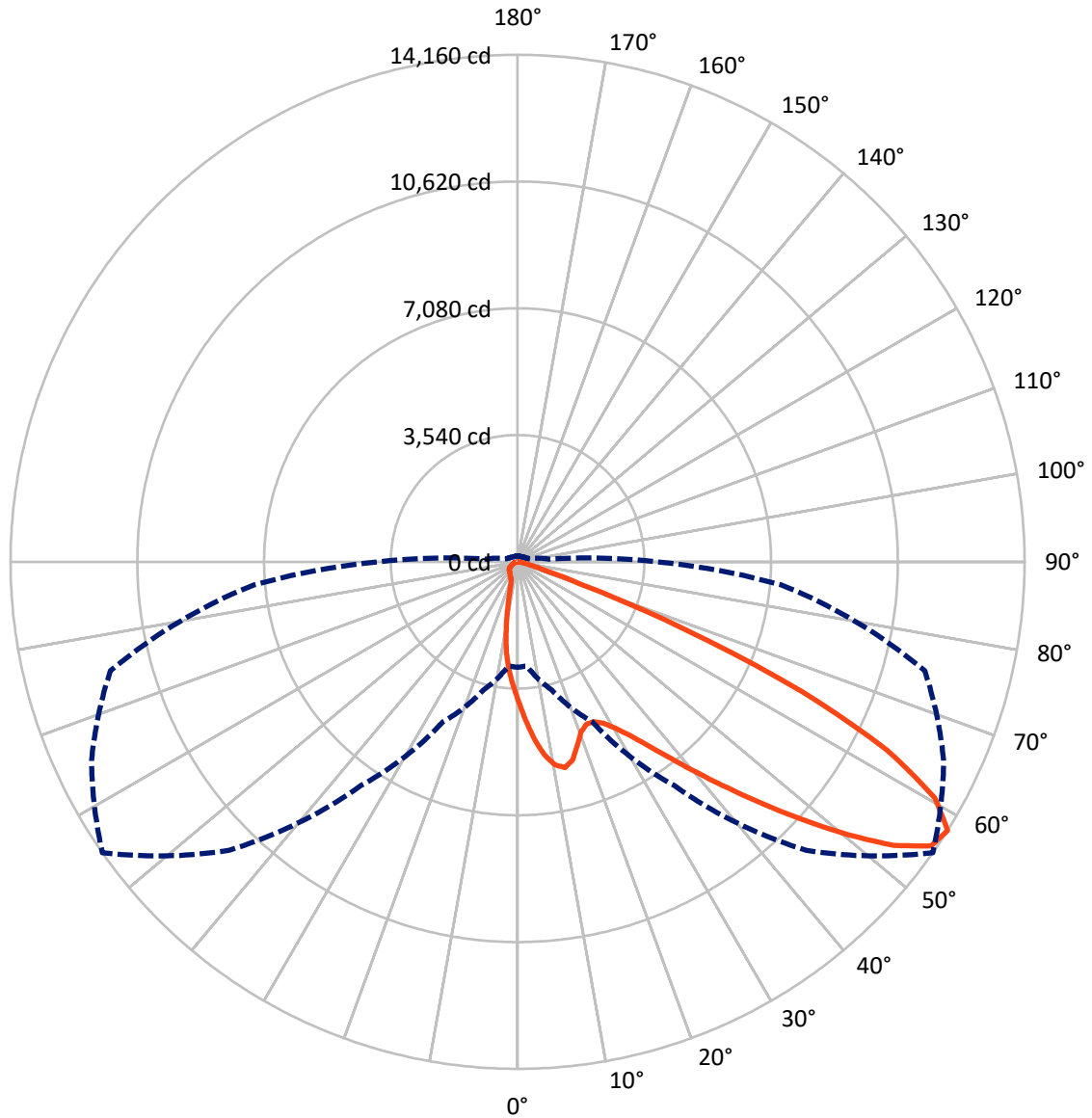
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	1266.9	0.0	1266.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14955.7	0.0	14955.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	16222.7	0.0	16222.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	2.2
10°-20°	878.6	5.4
20°-30°	1405.8	8.7
30°-40°	2379.3	14.7
40°-50°	3906.4	24.1
50°-60°	4293.4	26.5
60°-70°	2462.7	15.2
70°-80°	503.2	3.1
80°-90°	29.7	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°	16222.7	100.0
0°-180°	16222.7	100.0

Coefficient of Utilization



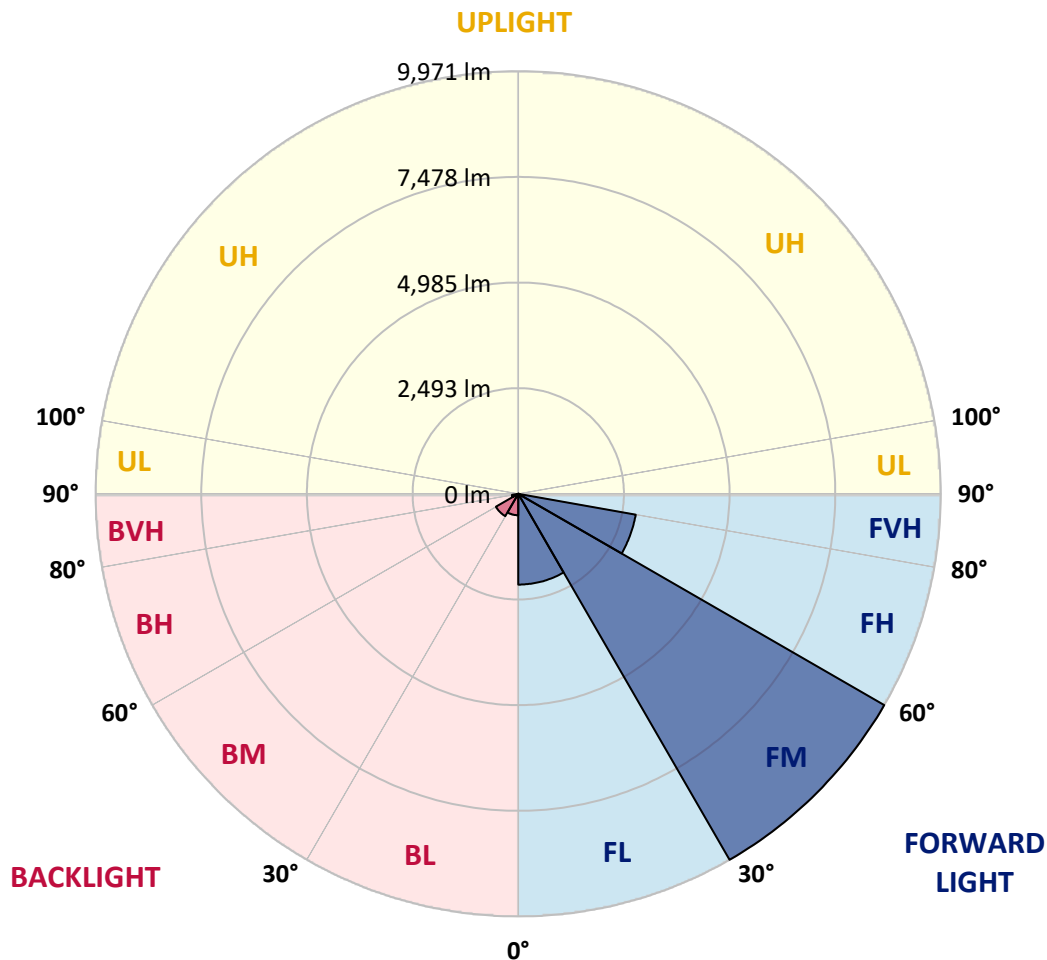
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.3	13.2			
FM (30°-60°)	9970.6	61.5			
FH (60°-80°)	2815.2	17.4			G2/5000
FVH (80°-90°)	27.7	0.2			G1/100
BL (0°-30°)	505.8	3.1	B2/1000		
BM (30°-60°)	608.5	3.8	B1/1000		
BH (60°-80°)	150.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	4850.6	4789.5	4780.5	4768.5	4652.5	4565.5	4439.5	4301.4	4146.3	3988.3	3918.3
5°	5603.8	5555.8	5546.8	5490.8	5358.7	5210.7	4986.6	4703.5	4414.5	4074.3	3928.3
7.5°	5749.8	5740.8	5781.8	5779.9	5761.8	5644.8	5455.8	5118.6	4684.6	4180.4	3954.2
10°	5098.7	5121.6	5243.7	5350.7	5639.9	5807.9	5766.9	5488.8	4962.6	4301.4	3983.3
12.5°	4505.5	4478.4	4565.5	4686.5	5022.6	5522.8	5895.9	5797.9	5280.7	4438.5	4026.3
15°	4133.3	4122.3	4171.3	4227.4	4483.5	4987.6	5745.8	6048.9	5586.8	4600.5	4091.3
17.5°	4014.3	4005.3	4020.3	4034.3	4200.3	4590.5	5388.7	6203.0	5879.9	4785.5	4163.3
20°	4111.4	4099.3	4097.3	4086.4	4155.3	4421.4	5065.7	6214.0	6143.0	4953.6	4225.4
22.5°	4394.4	4380.4	4331.4	4287.4	4293.4	4444.4	4921.6	6104.0	6341.1	5110.6	4264.4
25°	4907.6	4884.5	4782.5	4634.5	4540.4	4604.5	4943.6	5958.9	6530.1	5233.6	4245.3
27.5°	5549.8	5519.8	5388.7	5168.7	4953.6	4875.6	5102.7	5858.9	6687.2	5327.7	4204.3
30°	6179.0	6140.0	6010.9	5839.9	5525.8	5279.7	5389.8	5902.9	6874.3	5425.7	4150.3
32.5°	6858.2	6821.2	6650.2	6438.1	6178.0	5846.9	5782.8	6118.0	7103.2	5562.8	4112.3
35°	7717.5	7659.5	7416.4	7127.3	6851.2	6516.1	6315.0	6489.1	7408.4	5771.9	4133.3
37.5°	8695.8	8617.8	8355.7	7956.6	7596.5	7221.3	6963.2	6999.3	7855.5	6051.9	4198.4
40°	9618.1	9547.1	9305.1	8928.9	8476.8	8021.5	7746.5	7666.5	8472.8	6393.0	4312.4
42.5°	10171.3	10107.3	10005.2	9846.2	9465.1	9000.9	8653.8	8480.7	9203.0	6801.2	4451.5
45°	10202.3	10146.3	10283.3	10468.4	10393.4	10084.3	9661.1	9344.0	9936.2	7184.3	4595.5
47.5°	9706.1	9668.1	10084.3	10730.5	11052.6	11182.6	10792.5	10135.3	10541.4	7459.4	4654.5
50°	8353.8	8339.7	9196.0	10382.3	11303.7	12144.9	11985.8	10871.6	11010.6	7601.5	4598.5
52.5°	7243.4	7192.3	7691.5	9267.9	10938.5	12651.1	13152.3	11593.8	11338.7	7628.5	4467.5
55°	5493.8	5448.8	6075.0	7403.4	9761.2	12471.1	14005.5	12338.9	11573.8	7559.5	4232.3
57.5°	2947.0	2919.0	3710.2	4927.6	7630.5	11390.7	14159.6	13127.3	11771.8	7376.4	3903.3
60°	1147.4	1142.4	1438.5	2390.8	4637.5	9267.0	13382.3	13600.4	11895.8	7151.3	3628.2
62.5°	694.2	709.2	757.3	1073.4	2048.7	5756.9	11590.7	13062.2	11978.9	6945.3	3401.1
65°	574.2	575.2	581.2	737.3	981.3	2408.8	8725.8	11291.6	11773.8	6578.1	3079.0
67.5°	492.2	501.1	524.2	585.2	692.2	1056.4	5023.6	8746.8	10526.4	5723.8	2576.8
70°	388.2	400.2	429.2	481.1	534.1	661.2	1856.6	5819.8	8041.6	4314.4	1948.6
72.5°	327.1	326.2	341.1	391.1	424.1	465.1	714.2	3261.0	4673.5	2059.6	964.3
75°	253.1	263.1	282.1	327.1	347.1	337.1	387.1	1191.4	1674.5	624.2	328.1
77.5°	198.0	206.0	223.0	267.1	287.1	239.0	223.0	426.1	538.1	224.1	148.0
80°	89.1	96.0	152.0	197.1	234.1	165.0	121.1	218.1	239.0	102.0	75.0
82.5°	16.0	27.0	89.1	104.0	120.0	107.0	63.0	113.1	117.1	41.0	26.0
85°	1.0	2.0	31.1	38.0	48.0	35.1	19.0	45.0	39.1	14.0	10.0
87.5°	0.0	0.0	0.0	1.0	1.0	5.0	6.0	8.0	6.0	5.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	3846.2	3704.2	3566.2	3453.1	3387.1	3275.1	3201.1	3189.1	3158.0	3185.0
5°	3772.2	3518.1	3261.0	3031.0	2841.9	2597.9	2415.8	2338.7	2271.7	2294.8
7.5°	3737.3	3336.1	2935.9	2542.8	2138.7	1748.5	1458.5	1337.4	1245.4	1258.4
10°	3690.2	3147.1	2519.9	1919.6	1378.4	993.3	793.2	719.2	678.2	679.3
12.5°	3654.2	2920.9	2036.7	1301.4	839.3	634.2	572.2	554.2	542.2	543.1
15°	3636.2	2654.9	1559.5	867.3	600.2	537.2	522.1	514.1	506.1	505.1
17.5°	3606.2	2358.7	1141.3	633.2	525.2	503.2	490.2	481.1	471.2	469.1
20°	3561.2	2022.6	834.2	535.2	492.2	475.2	457.2	445.2	433.2	431.1
22.5°	3478.1	1667.6	641.2	495.2	468.1	449.2	427.1	413.2	401.1	399.1
25°	3324.1	1334.4	540.2	470.2	447.1	424.1	400.2	381.1	370.1	368.1
27.5°	3129.0	1048.4	490.2	447.1	420.1	399.1	372.1	354.1	344.1	342.1
30°	2898.9	807.3	461.1	421.2	388.2	370.1	346.1	331.1	325.1	325.1
32.5°	2650.9	645.2	449.2	395.1	360.1	340.1	321.1	315.1	313.1	312.1
35°	2417.8	560.2	443.1	374.1	335.1	316.1	308.1	309.1	313.1	313.1
37.5°	2210.7	533.2	440.1	359.2	313.1	296.1	301.1	310.1	306.1	306.1
40°	2023.7	536.2	438.2	348.1	295.1	285.1	295.1	288.1	278.1	277.1
42.5°	1880.6	561.2	434.2	339.1	284.1	277.1	273.1	262.1	261.1	263.1
45°	1776.5	583.2	433.2	335.1	272.1	259.1	254.1	243.0	263.1	268.0
47.5°	1653.5	583.2	433.2	321.1	252.0	247.1	239.0	227.0	247.1	252.0
50°	1494.4	546.2	416.2	305.1	236.1	233.1	219.0	204.1	200.1	203.1
52.5°	1293.4	479.2	373.1	283.1	220.1	214.0	197.1	186.0	183.1	183.1
55°	1064.4	401.1	315.1	251.1	203.1	192.1	180.1	175.1	172.1	170.0
57.5°	865.3	329.1	253.1	223.0	187.1	173.0	169.0	163.1	158.1	155.1
60°	710.2	259.1	209.1	198.0	171.1	158.1	157.0	149.0	136.0	134.1
62.5°	548.2	190.0	176.1	172.1	155.1	144.0	142.1	126.1	106.0	102.0
65°	387.1	148.0	142.1	151.1	138.1	128.0	123.0	99.0	78.0	75.0
67.5°	272.1	124.0	112.0	132.0	120.0	107.0	104.0	84.0	65.0	63.0
70°	194.0	101.1	92.0	113.1	96.0	94.0	88.0	70.0	53.0	51.0
72.5°	137.0	77.0	71.0	98.0	66.0	81.0	72.1	54.0	40.0	38.0
75°	101.1	55.0	50.0	57.0	48.0	61.0	51.0	36.0	25.0	24.0
77.5°	74.0	35.1	30.0	28.0	28.0	38.0	28.0	15.0	11.0	10.0
80°	52.0	16.0	14.0	12.0	11.0	9.0	4.0	2.0	1.0	1.0
82.5°	31.1	7.0	7.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	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

(END OF REPORT)