

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: P962352

Luminaire Tested: **NAV-SB2C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962352
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-SB2C-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 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: 10812.7 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

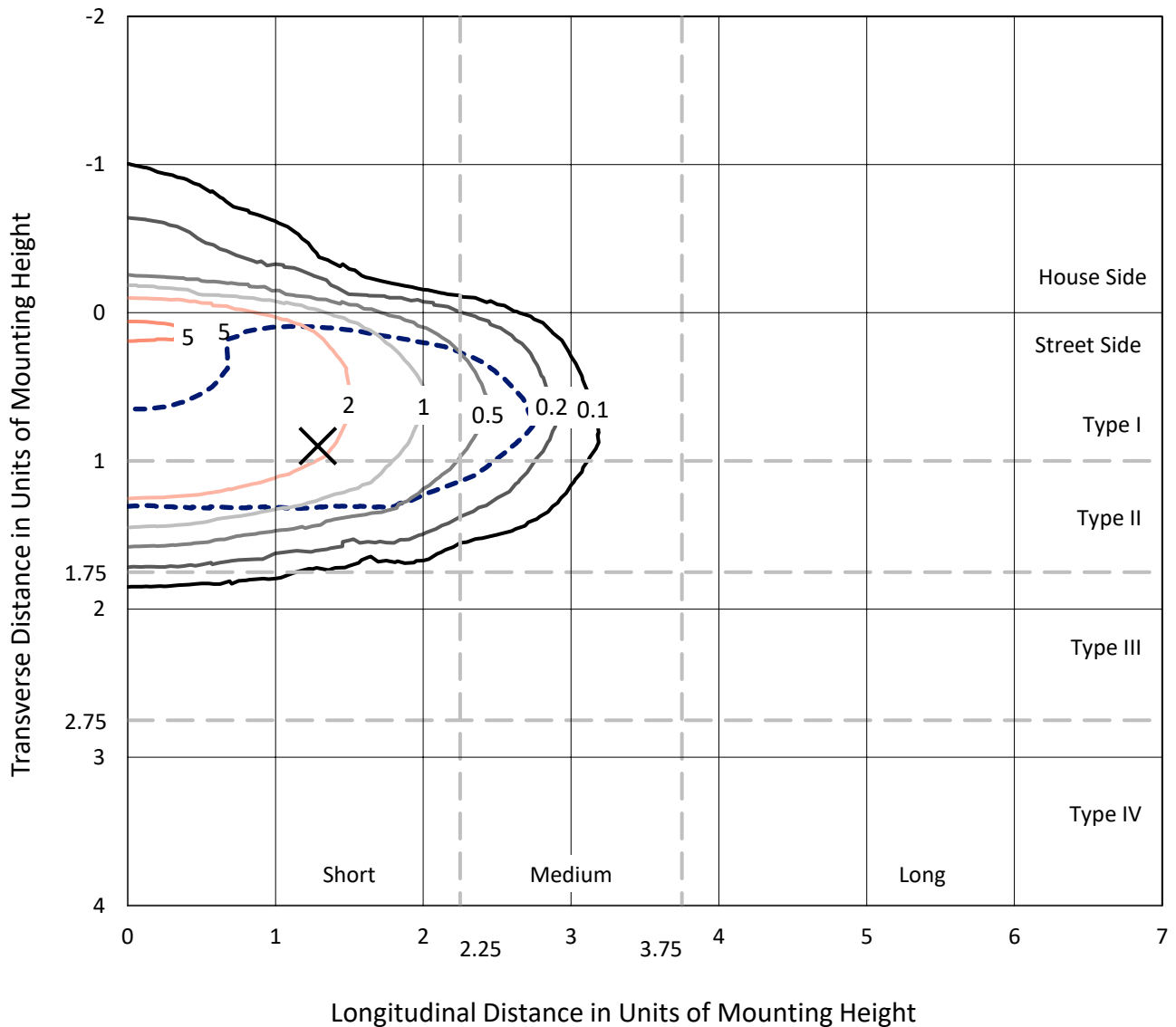
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

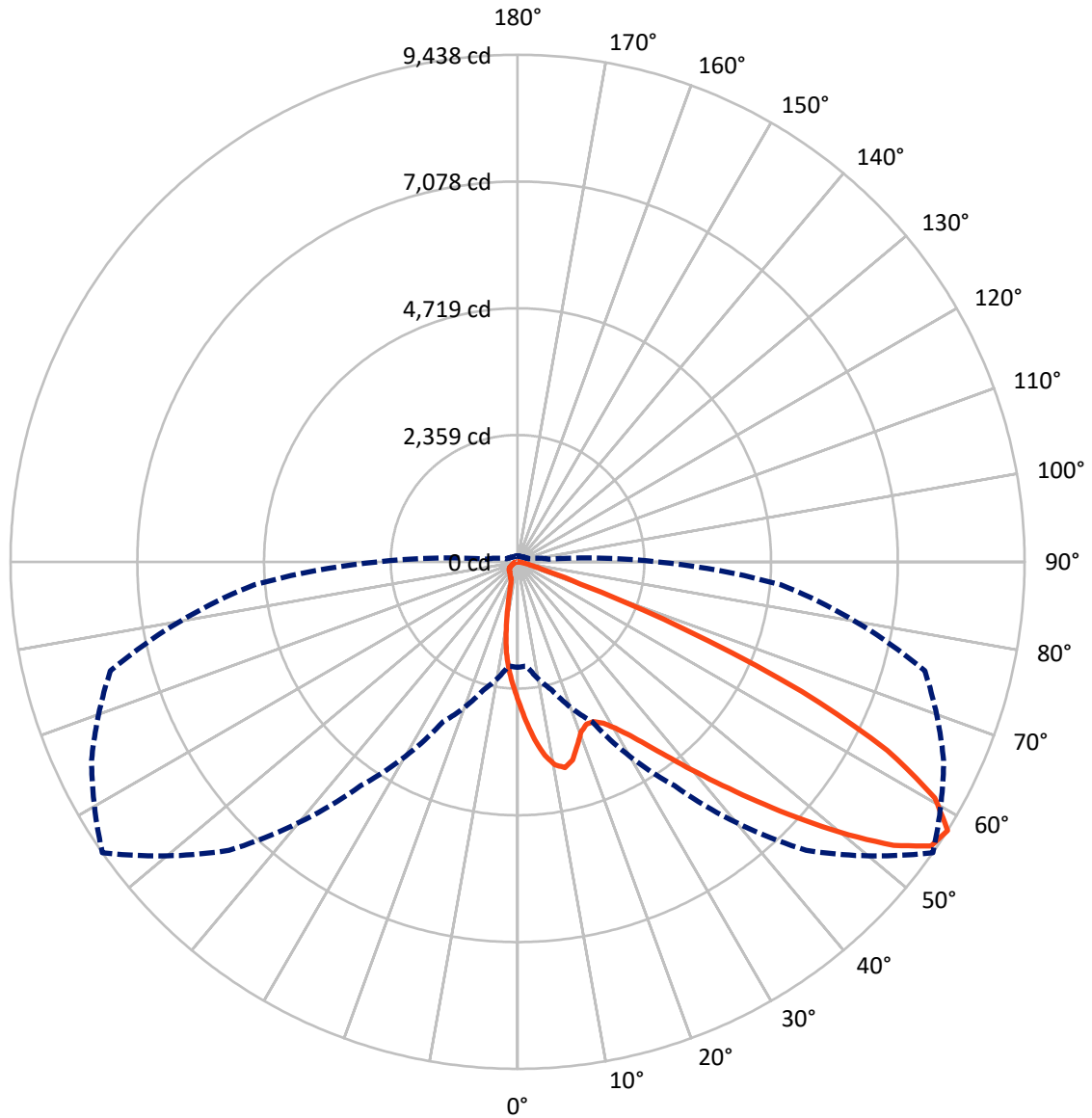
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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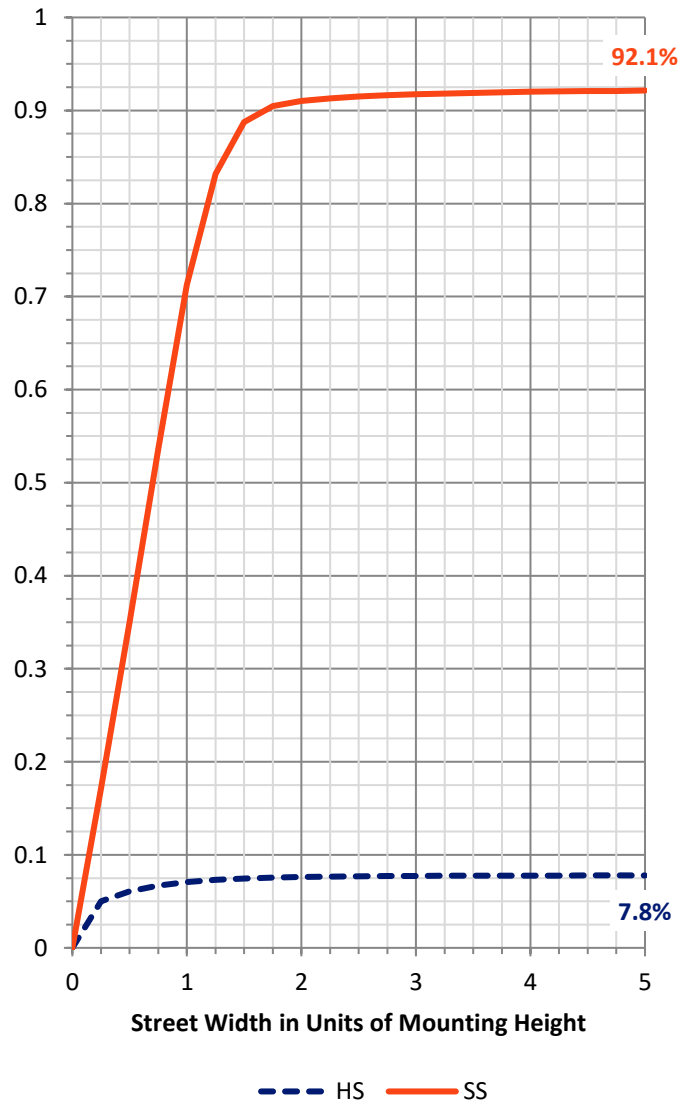
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.4	0.0	844.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	9968.3	0.0	9968.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	10812.7	0.0	10812.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	2.2
10°-20°	585.6	5.4
20°-30°	937.0	8.7
30°-40°	1585.9	14.7
40°-50°	2603.7	24.1
50°-60°	2861.6	26.5
60°-70°	1641.4	15.2
70°-80°	335.4	3.1
80°-90°	19.8	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°	10812.7	100.0
0°-180°	10812.7	100.0

Coefficient of Utilization

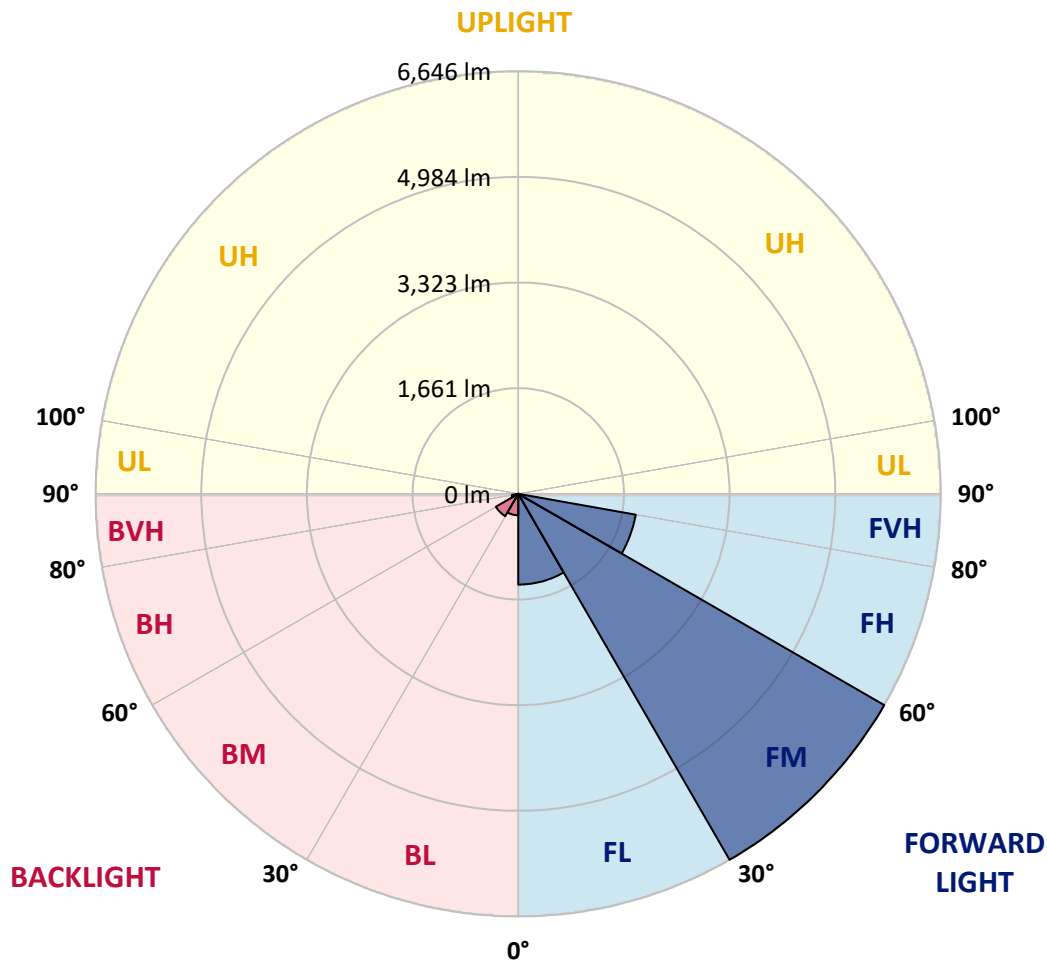


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.9	13.2			
FM (30°-60°)	6645.6	61.5			
FH (60°-80°)	1876.4	17.4			G2/5000
FVH (80°-90°)	18.5	0.2			G1/100
BL (0°-30°)	337.1	3.1	B1/500		
BM (30°-60°)	405.5	3.8	B1/1000		
BH (60°-80°)	100.4	0.9	B0/110		G0/110
BVH (80°-90°)	1.3	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°	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5
2.5°	3233.0	3192.4	3186.3	3178.3	3101.0	3043.0	2959.0	2866.9	2763.6	2658.2	2611.6
5°	3735.1	3703.0	3697.1	3659.7	3571.7	3473.0	3323.7	3135.0	2942.3	2715.6	2618.3
7.5°	3832.4	3826.4	3853.7	3852.4	3840.4	3762.4	3636.4	3411.7	3122.4	2786.3	2635.6
10°	3398.4	3413.7	3495.0	3566.4	3759.1	3871.0	3843.7	3658.3	3307.7	2866.9	2655.0
12.5°	3002.9	2985.0	3043.0	3123.7	3347.6	3681.1	3929.7	3864.4	3519.6	2958.3	2683.7
15°	2755.0	2747.6	2780.3	2817.6	2988.3	3324.4	3829.7	4031.7	3723.7	3066.3	2726.9
17.5°	2675.6	2669.6	2679.7	2689.0	2799.6	3059.6	3591.7	4134.4	3919.1	3189.7	2775.0
20°	2740.2	2732.2	2730.9	2723.6	2769.7	2947.0	3376.4	4141.7	4094.5	3301.6	2816.3
22.5°	2928.9	2919.6	2886.9	2857.6	2861.6	2962.4	3280.3	4068.4	4226.4	3406.4	2842.3
25°	3271.0	3255.7	3187.6	3088.9	3026.3	3069.0	3295.0	3971.8	4352.5	3488.4	2829.6
27.5°	3699.0	3679.0	3591.7	3445.0	3301.6	3249.7	3401.1	3905.0	4457.1	3551.0	2802.2
30°	4118.4	4092.4	4006.4	3892.4	3683.0	3519.0	3592.3	3934.4	4581.9	3616.4	2766.3
32.5°	4571.1	4546.5	4432.4	4291.1	4117.7	3897.0	3854.4	4077.8	4734.5	3707.7	2741.0
35°	5143.9	5105.2	4943.2	4750.5	4566.5	4343.1	4209.1	4325.1	4937.8	3847.0	2755.0
37.5°	5796.0	5743.9	5569.2	5303.2	5063.2	4813.2	4641.1	4665.2	5235.9	4033.8	2798.2
40°	6410.7	6363.3	6202.0	5951.3	5649.9	5346.5	5163.2	5109.8	5647.2	4261.1	2874.3
42.5°	6779.4	6736.7	6668.6	6562.7	6308.7	5999.3	5767.9	5652.6	6134.0	4533.2	2967.0
45°	6800.1	6762.6	6854.1	6977.4	6927.4	6721.3	6439.4	6228.0	6622.6	4788.5	3063.0
47.5°	6469.3	6444.0	6721.3	7152.0	7366.8	7453.4	7193.4	6755.4	7026.1	4971.9	3102.4
50°	5567.9	5558.6	6129.3	6920.1	7534.1	8094.8	7988.8	7246.0	7338.8	5066.5	3065.0
52.5°	4827.9	4793.8	5126.5	6177.3	7290.7	8432.2	8766.2	7727.5	7557.4	5084.5	2977.6
55°	3661.7	3631.7	4049.1	4934.6	6506.0	8312.1	9335.0	8224.2	7714.2	5038.5	2821.0
57.5°	1964.2	1945.6	2472.9	3284.3	5085.8	7592.1	9437.6	8749.6	7846.2	4916.5	2601.6
60°	764.8	761.4	958.8	1593.5	3091.0	6176.6	8919.6	9064.9	7928.8	4766.5	2418.3
62.5°	462.7	472.7	504.7	715.4	1365.5	3837.1	7725.4	8706.2	7984.1	4629.1	2266.9
65°	382.7	383.3	387.3	491.4	654.1	1605.5	5816.0	7526.1	7847.5	4384.4	2052.3
67.5°	328.0	334.0	349.3	390.0	461.4	704.1	3348.4	5829.9	7016.0	3815.0	1717.5
70°	258.7	266.7	286.1	320.7	356.1	440.7	1237.5	3879.1	5359.9	2875.6	1298.8
72.5°	218.0	217.4	227.3	260.7	282.7	310.1	476.0	2173.5	3115.0	1372.8	642.8
75°	168.7	175.4	188.0	218.0	231.3	224.7	258.0	794.1	1116.1	416.0	218.7
77.5°	132.0	137.4	148.7	178.0	191.4	159.4	148.7	284.0	358.7	149.3	98.7
80°	59.3	64.0	101.4	131.3	156.0	110.0	80.7	145.3	159.4	68.0	50.0
82.5°	10.7	18.0	59.3	69.3	80.1	71.3	42.0	75.3	78.0	27.4	17.3
85°	0.7	1.3	20.7	25.3	32.0	23.4	12.7	30.0	26.0	9.3	6.7
87.5°	0.0	0.0	0.0	0.7	0.7	3.4	4.0	5.3	4.0	3.4	2.7
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°	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5	2605.5
2.5°	2563.6	2468.9	2376.9	2301.5	2257.6	2182.8	2133.5	2125.5	2104.8	2122.9
5°	2514.2	2344.9	2173.5	2020.2	1894.2	1731.5	1610.2	1558.8	1514.1	1529.5
7.5°	2491.0	2223.5	1956.8	1694.8	1425.5	1165.4	972.1	891.4	830.0	838.8
10°	2459.6	2097.6	1679.5	1279.5	918.8	662.0	528.7	479.4	452.0	452.7
12.5°	2435.6	1946.9	1357.5	867.5	559.3	422.7	381.4	369.4	361.4	362.0
15°	2423.6	1769.6	1039.5	578.1	400.1	358.0	348.0	342.7	337.3	336.7
17.5°	2403.6	1572.1	760.8	422.0	350.0	335.4	326.7	320.7	314.1	312.7
20°	2373.6	1348.2	556.1	356.7	328.0	316.7	304.7	296.7	288.7	287.4
22.5°	2318.2	1111.4	427.4	330.0	312.0	299.4	284.7	275.3	267.3	266.0
25°	2215.5	889.4	360.1	313.3	298.1	282.7	266.7	254.0	246.7	245.4
27.5°	2085.6	698.7	326.7	298.1	280.0	266.0	248.0	236.1	229.4	228.1
30°	1932.2	538.0	307.4	280.6	258.7	246.7	230.7	220.7	216.7	216.7
32.5°	1766.9	430.1	299.4	263.3	240.1	226.7	214.0	210.0	208.7	208.0
35°	1611.5	373.4	295.4	249.4	223.3	210.6	205.3	206.0	208.7	208.7
37.5°	1473.4	355.4	293.4	239.3	208.7	197.3	200.7	206.6	204.0	204.0
40°	1348.8	357.4	292.0	232.1	196.7	190.0	196.7	192.0	185.3	184.7
42.5°	1253.5	374.0	289.4	226.0	189.3	184.7	182.0	174.7	174.0	175.4
45°	1184.1	388.7	288.7	223.3	181.3	172.7	169.3	162.1	175.4	178.7
47.5°	1102.1	388.7	288.7	214.0	168.0	164.7	159.4	151.4	164.7	168.0
50°	996.1	364.1	277.4	203.4	157.3	155.4	146.1	136.0	133.4	135.3
52.5°	862.1	319.4	248.7	188.7	146.7	142.7	131.3	124.0	122.0	122.0
55°	709.4	267.3	210.0	167.4	135.3	128.0	120.0	116.6	114.7	113.4
57.5°	576.8	219.4	168.7	148.7	124.6	115.3	112.6	108.6	105.4	103.3
60°	473.3	172.7	139.3	132.0	114.0	105.4	104.7	99.3	90.7	89.4
62.5°	365.4	126.7	117.4	114.7	103.3	96.0	94.7	84.0	70.7	68.0
65°	258.0	98.7	94.7	100.7	92.0	85.4	82.0	66.0	52.0	50.0
67.5°	181.3	82.7	74.7	88.0	80.1	71.3	69.3	56.0	43.4	42.0
70°	129.4	67.3	61.3	75.3	64.0	62.6	58.6	46.6	35.4	34.0
72.5°	91.3	51.4	47.4	65.3	44.0	54.0	48.0	36.0	26.6	25.3
75°	67.3	36.7	33.3	38.0	32.0	40.7	34.0	24.0	16.7	16.0
77.5°	49.3	23.4	20.0	18.7	18.7	25.3	18.7	10.0	7.4	6.7
80°	34.6	10.7	9.3	8.0	7.4	6.0	2.7	1.3	0.7	0.7
82.5°	20.7	4.7	4.7	3.4	2.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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

(END OF REPORT)