

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: McGRAW-EDISON

Report Number: P949473

Luminaire Tested: **GALN-SB4B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949473
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: McGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA 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: 15896 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

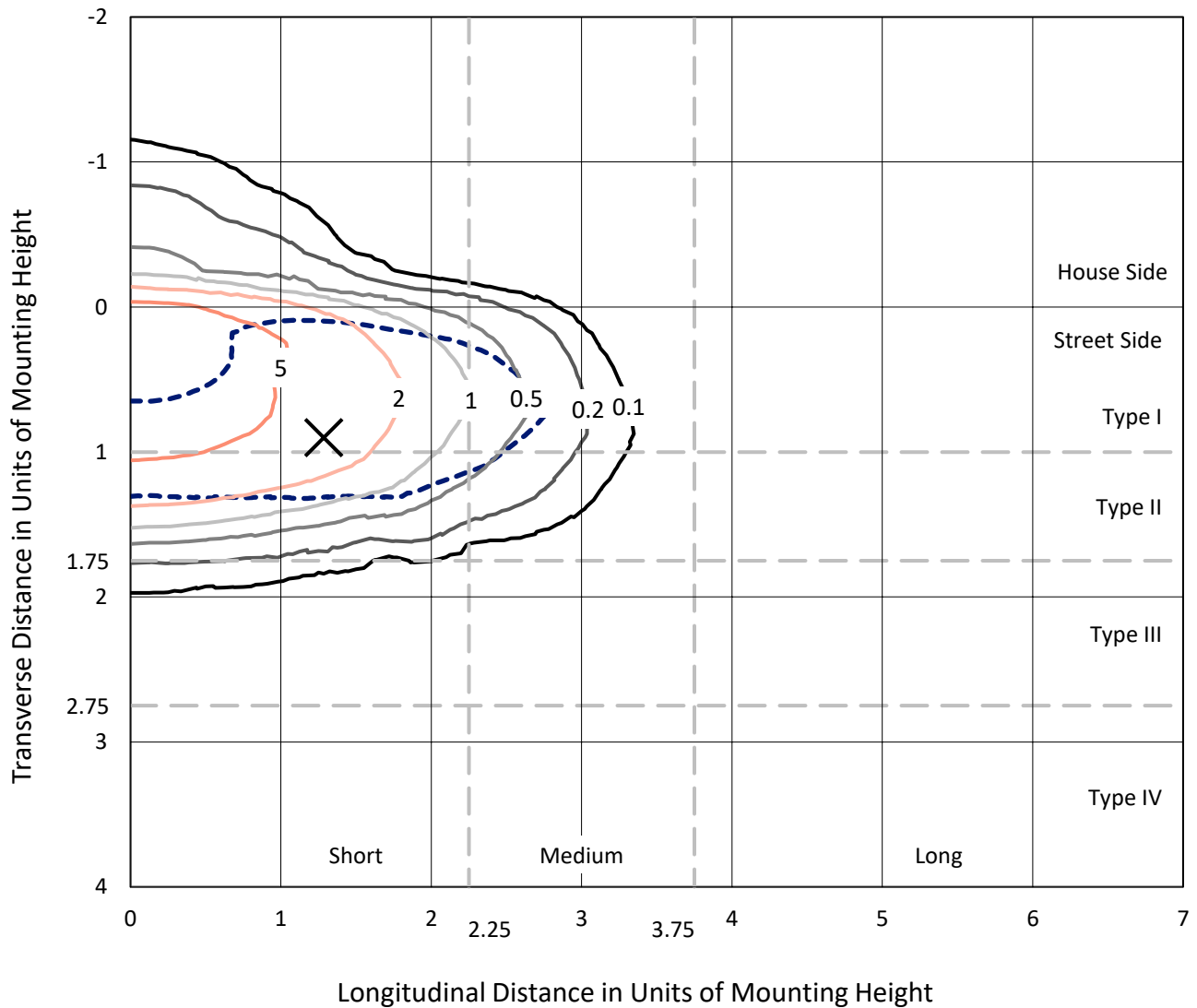
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

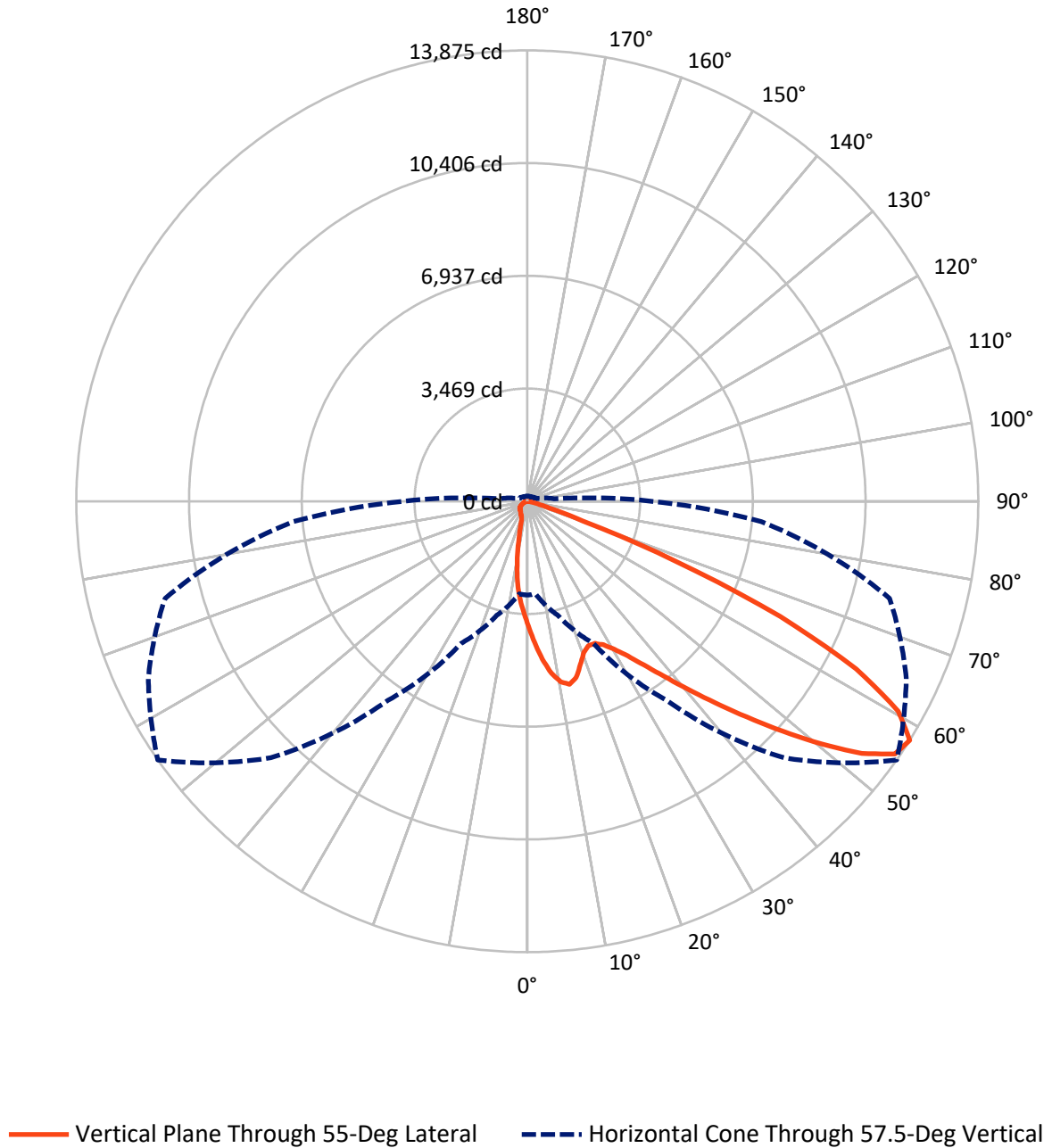
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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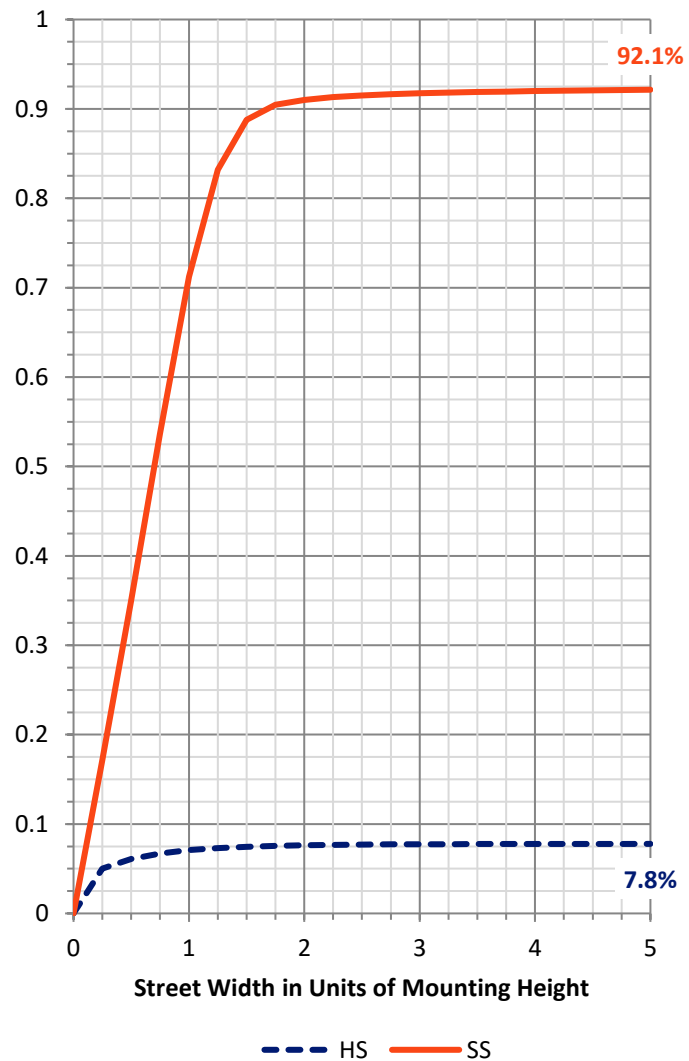
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.4	0.0	1241.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14654.6	0.0	14654.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	15896.0	0.0	15896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.4	2.2
10°-20°	860.9	5.4
20°-30°	1377.4	8.7
30°-40°	2331.4	14.7
40°-50°	3827.7	24.1
50°-60°	4206.9	26.5
60°-70°	2413.1	15.2
70°-80°	493.1	3.1
80°-90°	29.1	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°	15896.0	100.0
0°-180°	15896.0	100.0

Coefficient of Utilization



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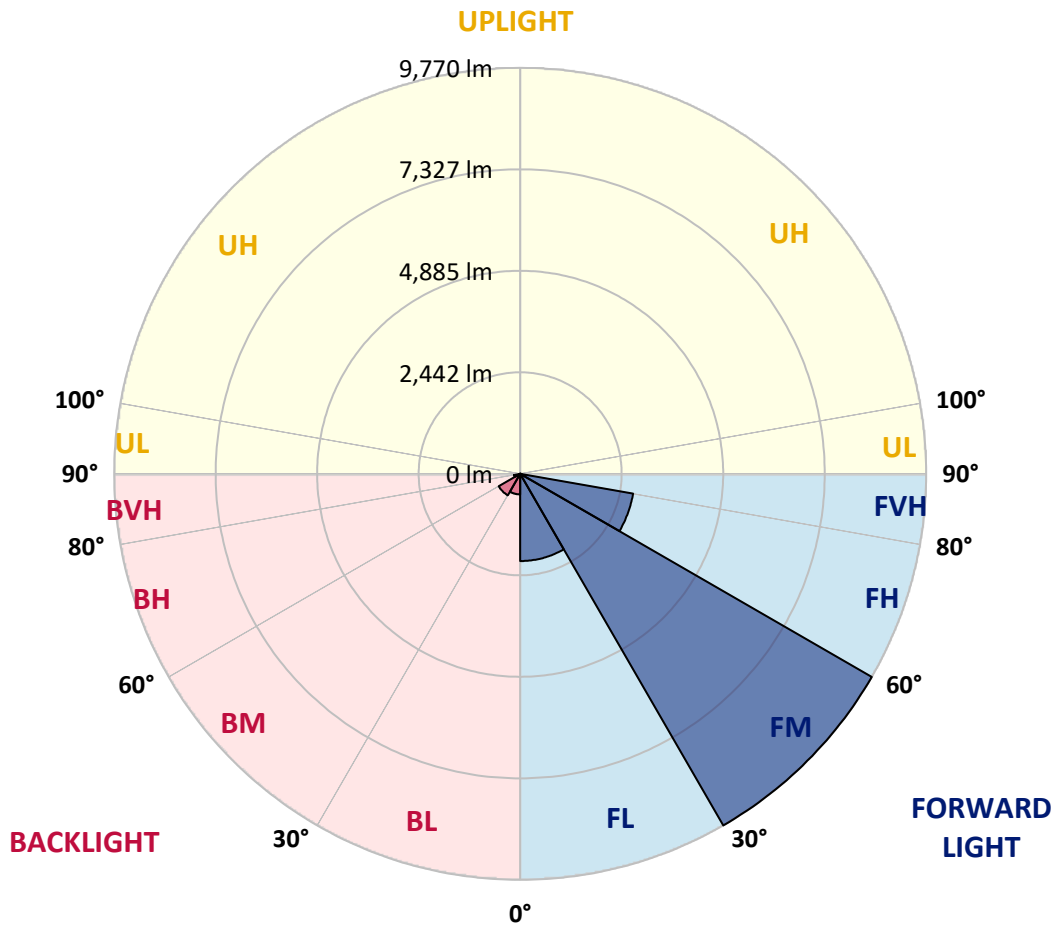
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.2	13.2			
FM (30°-60°)	9769.8	61.5			
FH (60°-80°)	2758.5	17.4			G2/5000
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	495.6	3.1	B1/500		
BM (30°-60°)	596.2	3.8	B1/1000		
BH (60°-80°)	147.6	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: 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°	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5
2.5°	4752.9	4693.1	4684.3	4672.5	4558.8	4473.5	4350.0	4214.8	4062.8	3908.0	3839.4
5°	5491.0	5443.9	5435.1	5380.2	5250.8	5105.8	4886.2	4608.8	4325.5	3992.3	3849.2
7.5°	5634.1	5625.3	5665.4	5663.5	5645.8	5531.2	5345.9	5015.6	4590.2	4096.2	3874.7
10°	4996.0	5018.5	5138.1	5243.0	5526.3	5690.9	5650.7	5378.2	4862.7	4214.8	3903.1
12.5°	4414.7	4388.3	4473.5	4592.1	4921.5	5411.6	5777.2	5681.1	5174.4	4349.1	3945.2
15°	4050.1	4039.3	4087.4	4142.2	4393.2	4887.2	5630.2	5927.1	5474.3	4507.8	4008.9
17.5°	3933.5	3924.6	3939.3	3953.1	4115.8	4498.0	5280.2	6078.1	5761.5	4689.2	4079.5
20°	4028.5	4016.8	4014.8	4004.0	4071.7	4332.4	4963.6	6088.9	6019.3	4853.9	4140.3
22.5°	4305.9	4292.2	4244.2	4201.1	4206.9	4354.9	4822.5	5981.1	6213.4	5007.7	4178.5
25°	4808.8	4786.2	4686.2	4541.2	4449.0	4511.8	4844.1	5838.9	6398.6	5128.3	4159.9
27.5°	5438.0	5408.6	5280.2	5064.6	4853.9	4777.4	4999.9	5740.9	6552.5	5220.4	4119.7
30°	6054.6	6016.3	5889.9	5722.3	5414.5	5173.4	5281.2	5784.0	6735.8	5316.5	4066.8
32.5°	6720.1	6683.8	6516.2	6308.4	6053.6	5729.2	5666.4	5994.8	6960.3	5450.8	4029.5
35°	7562.1	7505.2	7267.1	6983.8	6713.3	6384.9	6187.9	6358.4	7259.2	5655.6	4050.1
37.5°	8520.7	8444.3	8187.4	7796.4	7443.5	7075.9	6823.0	6858.3	7697.4	5930.1	4113.8
40°	9424.4	9354.8	9117.6	8749.1	8306.0	7860.1	7590.5	7512.1	8302.1	6264.3	4225.6
42.5°	9966.5	9903.7	9803.8	9647.9	9274.5	8819.7	8479.5	8310.0	9017.7	6664.2	4361.8
45°	9996.9	9942.0	10076.3	10257.6	10184.1	9881.2	9466.6	9155.9	9736.1	7039.7	4502.9
47.5°	9510.7	9473.4	9881.2	10514.4	10830.0	10957.4	10575.2	9931.2	10329.1	7309.2	4560.8
50°	8185.5	8171.8	9010.8	10173.3	11076.0	11900.4	11744.5	10652.6	10788.8	7448.4	4505.9
52.5°	7097.5	7047.5	7536.6	9081.4	10718.3	12396.3	12887.4	11360.3	11110.3	7474.9	4377.5
55°	5383.1	5339.0	5952.6	7254.3	9564.6	12219.9	13723.5	12090.5	11340.7	7407.2	4147.1
57.5°	2887.6	2860.2	3635.5	4828.4	7476.8	11161.3	13874.5	12862.9	11534.8	7227.8	3824.7
60°	1124.3	1119.4	1409.5	2342.6	4544.1	9080.4	13112.9	13326.5	11656.3	7007.3	3555.1
62.5°	680.2	694.9	742.0	1051.7	2007.4	5640.9	11357.3	12799.2	11737.7	6805.4	3332.6
65°	562.6	563.6	569.5	722.4	961.6	2360.3	8550.1	11064.3	11536.7	6445.7	3017.0
67.5°	482.2	491.1	513.6	573.4	678.3	1035.1	4922.5	8570.7	10314.4	5608.6	2524.9
70°	380.3	392.1	420.5	471.5	523.4	647.9	1819.2	5702.7	7879.7	4227.5	1909.4
72.5°	320.5	319.5	334.2	383.3	415.6	455.8	699.8	3195.4	4579.4	2018.2	944.9
75°	248.0	257.8	276.4	320.5	340.1	330.3	379.3	1167.4	1640.8	611.6	321.5
77.5°	194.1	201.9	218.6	261.7	281.3	234.3	218.6	417.6	527.3	219.6	145.1
80°	87.2	94.1	149.0	193.1	229.4	161.7	118.6	213.7	234.3	100.0	73.5
82.5°	15.7	26.5	87.2	101.9	117.6	104.9	61.8	110.8	114.7	40.2	25.5
85°	1.0	2.0	30.4	37.2	47.0	34.3	18.6	44.1	38.2	13.7	9.8
87.5°	0.0	0.0	0.0	1.0	1.0	4.9	5.9	7.8	5.9	4.9	3.9
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°	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5	3830.5
2.5°	3768.8	3629.6	3494.3	3383.6	3318.9	3209.1	3136.6	3124.8	3094.4	3120.9
5°	3696.3	3447.3	3195.4	2969.9	2784.7	2545.5	2367.1	2291.7	2226.0	2248.5
7.5°	3662.0	3268.9	2876.8	2491.6	2095.6	1713.4	1429.1	1310.5	1220.3	1233.1
10°	3615.9	3083.6	2469.1	1881.0	1350.7	973.3	777.3	704.7	664.6	665.5
12.5°	3580.6	2862.1	1995.6	1275.2	822.4	621.4	560.7	543.0	531.3	532.2
15°	3563.0	2601.4	1528.1	849.8	588.1	526.4	511.7	503.8	496.0	495.0
17.5°	3533.5	2311.3	1118.4	620.5	514.6	493.0	480.3	471.5	461.7	459.7
20°	3489.4	1981.9	817.5	524.4	482.2	465.6	447.9	436.2	424.4	422.5
22.5°	3408.1	1634.0	628.3	485.2	458.7	440.1	418.5	404.8	393.1	391.1
25°	3257.1	1307.6	529.3	460.7	438.1	415.6	392.1	373.4	362.7	360.7
27.5°	3066.0	1027.2	480.3	438.1	411.7	391.1	364.6	347.0	337.2	335.2
30°	2840.6	791.0	451.9	412.7	380.3	362.7	339.1	324.4	318.6	318.6
32.5°	2597.5	632.2	440.1	387.2	352.9	333.3	314.6	308.8	306.8	305.8
35°	2369.1	548.9	434.2	366.6	328.4	309.7	301.9	302.9	306.8	306.8
37.5°	2166.2	522.4	431.3	351.9	306.8	290.1	295.0	303.9	299.9	299.9
40°	1982.9	525.4	429.3	341.1	289.2	279.4	289.2	282.3	272.5	271.5
42.5°	1842.7	549.9	425.4	332.3	278.4	271.5	267.6	256.8	255.8	257.8
45°	1740.8	571.4	424.4	328.4	266.6	253.9	249.0	238.2	257.8	262.7
47.5°	1620.2	571.4	424.4	314.6	247.0	242.1	234.3	222.5	242.1	247.0
50°	1464.4	535.2	407.8	299.0	231.3	228.4	214.7	200.0	196.0	199.0
52.5°	1267.4	469.5	365.6	277.4	215.6	209.8	193.1	182.3	179.4	179.4
55°	1042.9	393.1	308.8	246.0	199.0	188.2	176.4	171.5	168.6	166.6
57.5°	847.9	322.5	248.0	218.6	183.3	169.6	165.7	159.8	154.9	151.9
60°	695.9	253.9	204.9	194.1	167.6	154.9	153.9	146.0	133.3	131.3
62.5°	537.1	186.2	172.5	168.6	151.9	141.1	139.2	123.5	103.9	100.0
65°	379.3	145.1	139.2	148.0	135.3	125.5	120.6	97.0	76.5	73.5
67.5°	266.6	121.5	109.8	129.4	117.6	104.9	101.9	82.3	63.7	61.8
70°	190.2	99.0	90.2	110.8	94.1	92.1	86.3	68.6	51.9	50.0
72.5°	134.3	75.5	69.6	96.1	64.7	79.4	70.6	52.9	39.2	37.2
75°	99.0	53.9	49.0	55.9	47.0	59.8	50.0	35.3	24.5	23.5
77.5°	72.5	34.3	29.4	27.4	27.4	37.2	27.4	14.7	10.8	9.8
80°	51.0	15.7	13.7	11.8	10.8	8.8	3.9	2.0	1.0	1.0
82.5°	30.4	6.9	6.9	4.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.9	2.9	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)