

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: P950187

Luminaire Tested: **GALN-SB4D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950187
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-SB4D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 28725 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

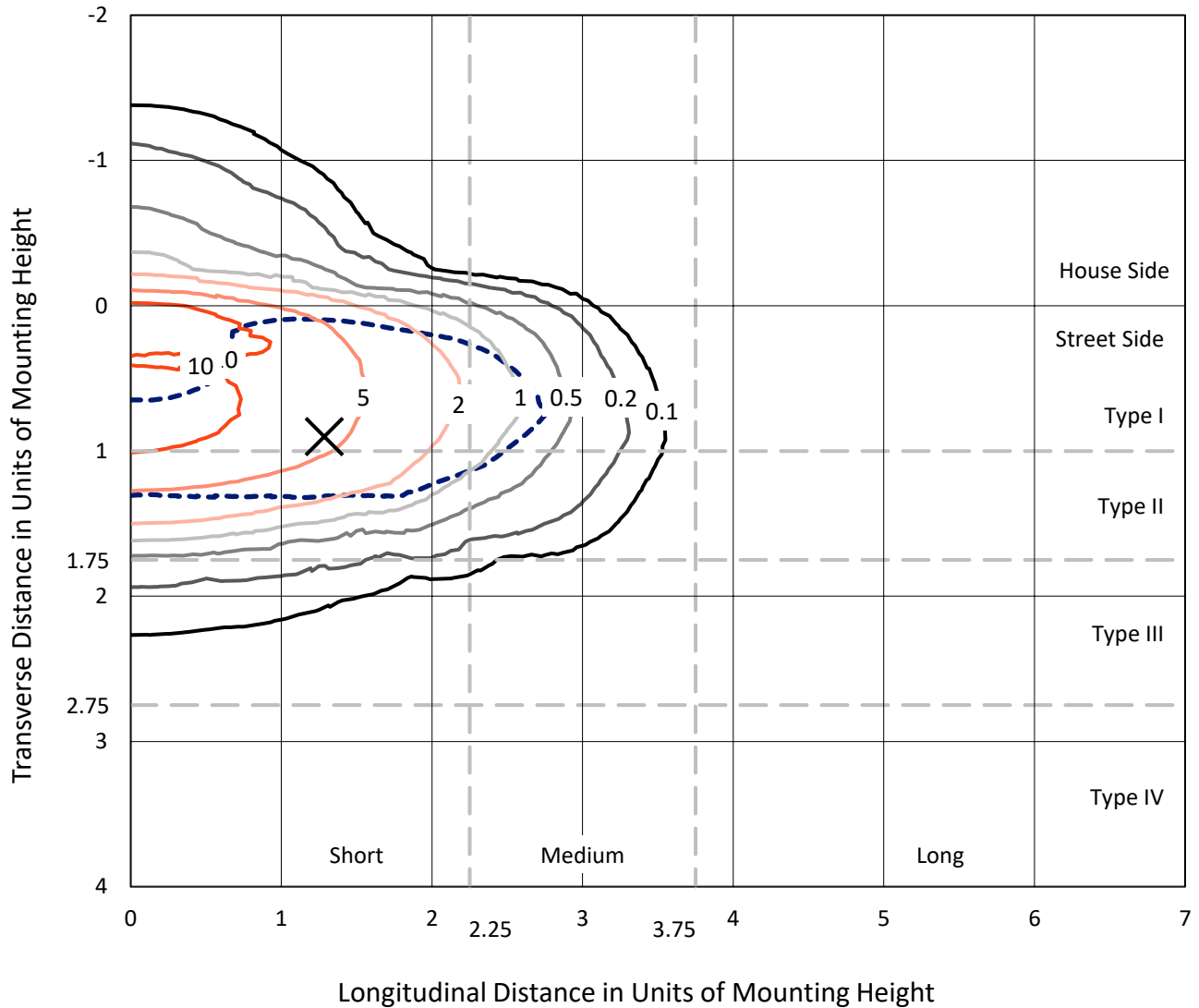
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950187
 CATALOG NUMBER: GALN-SB4D-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

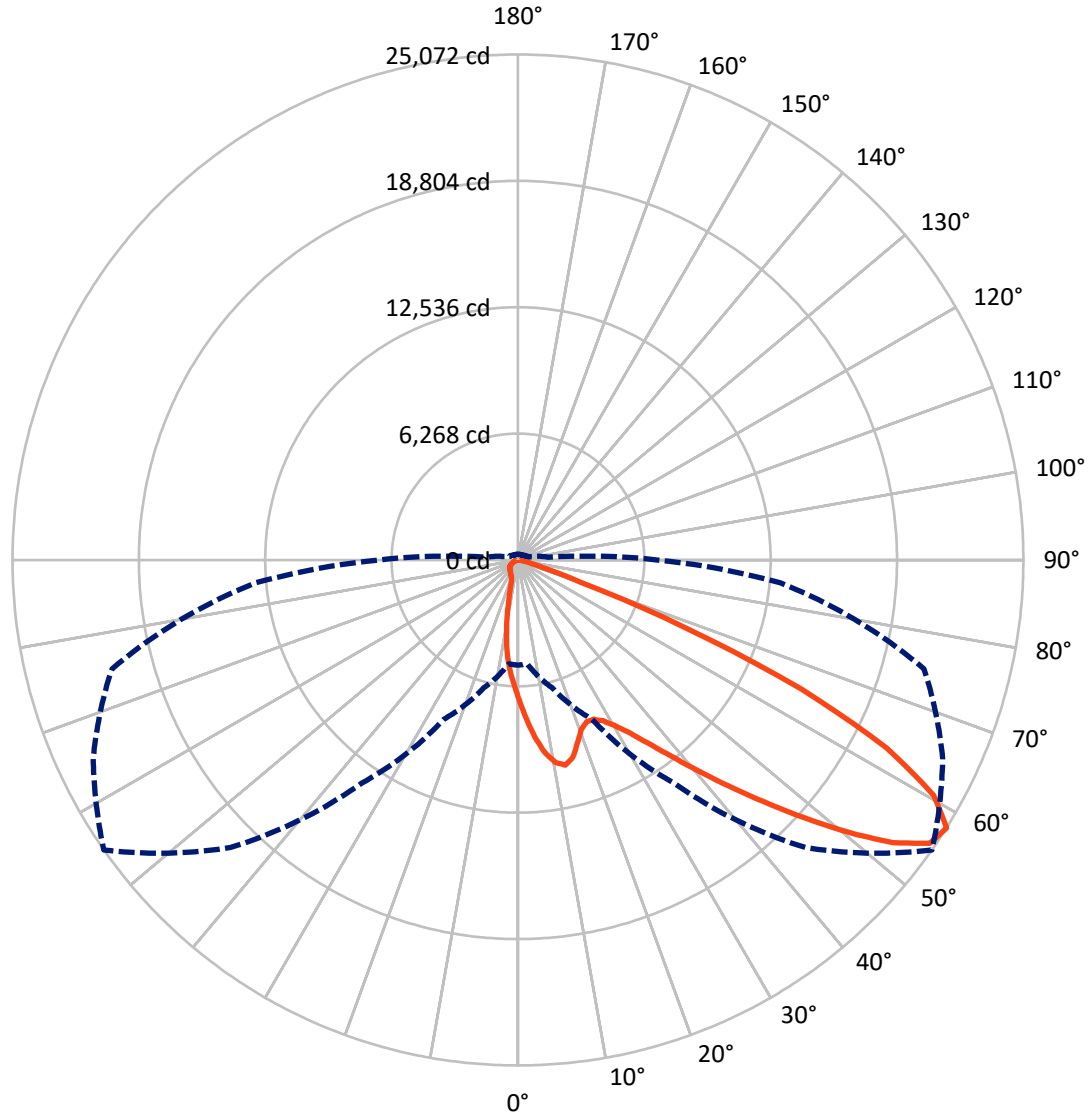
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P950187
CATALOG NUMBER: GALN-SB4D-722-U-AFL-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SB4D-722-U-AFL-HSS

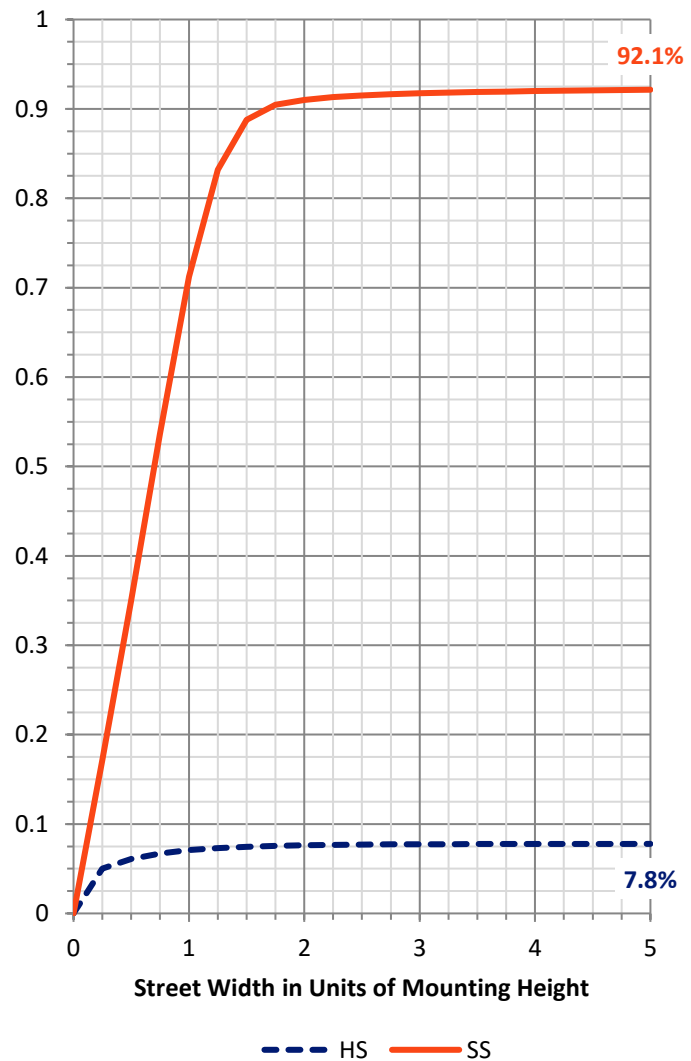
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2243.3	0.0	2243.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	26481.7	0.0	26481.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	28725.0	0.0	28725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.1	2.2
10°-20°	1555.7	5.4
20°-30°	2489.1	8.7
30°-40°	4213.0	14.7
40°-50°	6916.9	24.1
50°-60°	7602.1	26.5
60°-70°	4360.6	15.2
70°-80°	891.0	3.1
80°-90°	52.6	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°	28725.0	100.0
0°-180°	28725.0	100.0

Coefficient of Utilization



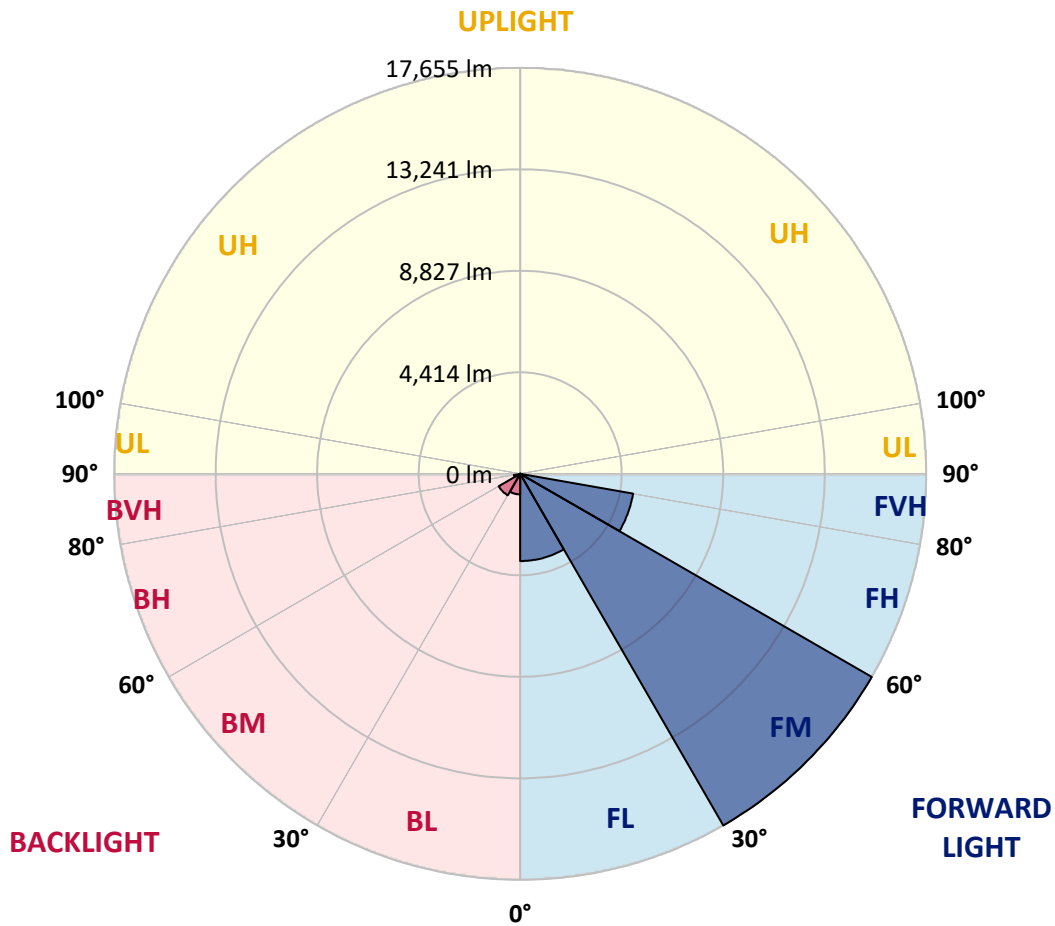
REPORT NUMBER: P950187
 CATALOG NUMBER: GALN-SB4D-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3793.3	13.2			
FM (30°-60°)	17654.6	61.5			
FH (60°-80°)	4984.8	17.4			G2/5000
FVH (80°-90°)	49.0	0.2			G1/100
BL (0°-30°)	895.6	3.1	B2/1000		
BM (30°-60°)	1077.4	3.8	B2/2500		
BH (60°-80°)	266.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	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°	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0
2.5°	8588.8	8480.7	8464.8	8443.5	8238.1	8084.0	7860.8	7616.3	7341.8	7061.9	6938.0
5°	9922.5	9837.5	9821.5	9722.4	9488.5	9226.4	8829.6	8328.4	7816.5	7214.3	6955.7
7.5°	10181.1	10165.2	10237.8	10234.2	10202.4	9995.1	9660.4	9063.4	8294.7	7402.0	7001.7
10°	9028.0	9068.8	9284.9	9474.4	9986.3	10283.8	10211.2	9718.8	8787.1	7616.3	7053.1
12.5°	7977.7	7929.9	8084.0	8298.3	8893.4	9779.0	10439.7	10266.1	9350.4	7859.0	7129.3
15°	7318.8	7299.3	7386.1	7485.3	7938.7	8831.4	10174.0	10710.7	9892.4	8145.9	7244.4
17.5°	7108.0	7092.1	7118.6	7143.4	7437.4	8128.2	9541.7	10983.5	10411.4	8473.6	7371.9
20°	7279.8	7258.6	7255.0	7235.5	7357.7	7828.9	8969.6	11003.0	10877.2	8771.2	7481.7
22.5°	7781.1	7756.3	7669.5	7591.5	7602.2	7869.6	8714.5	10808.1	11227.9	9049.3	7550.8
25°	8689.7	8649.0	8468.3	8206.2	8039.7	8153.0	8753.5	10551.3	11562.7	9267.1	7517.2
27.5°	9826.9	9773.7	9541.7	9152.0	8771.2	8633.0	9035.1	10374.2	11840.8	9433.6	7444.5
30°	10941.0	10871.9	10643.4	10340.5	9784.3	9348.6	9543.5	10452.1	12172.0	9607.2	7348.9
32.5°	12143.6	12078.1	11775.2	11399.7	10939.2	10352.9	10239.6	10832.9	12577.6	9849.9	7281.6
35°	13665.1	13562.4	13132.0	12620.1	12131.2	11537.9	11181.9	11490.1	13117.8	10220.1	7318.8
37.5°	15397.4	15259.3	14795.2	14088.5	13450.8	12786.6	12329.6	12393.4	13909.6	10716.0	7433.9
40°	17030.5	16904.7	16476.1	15810.1	15009.5	14203.6	13716.5	13574.8	15002.4	11320.0	7635.8
42.5°	18010.0	17896.6	17716.0	17434.3	16759.5	15937.6	15323.0	15016.6	16295.4	12042.7	7882.0
45°	18064.9	17965.7	18208.4	18536.1	18403.2	17855.9	17106.7	16545.2	17593.8	12721.1	8137.1
47.5°	17186.4	17119.1	17855.9	19000.1	19570.5	19800.7	19109.9	17946.2	18665.4	13208.2	8241.6
50°	14791.6	14766.9	16283.0	18383.7	20015.0	21504.7	21223.0	19249.9	19496.1	13459.7	8142.4
52.5°	12825.6	12735.2	13619.1	16410.6	19368.5	22400.9	23288.3	20528.7	20077.0	13507.5	7910.4
55°	9727.7	9648.0	10756.8	13109.0	17283.8	22082.1	24799.2	21848.3	20493.3	13385.3	7494.1
57.5°	5218.1	5168.5	6569.5	8725.1	13511.0	20169.1	25071.9	23244.0	20844.0	13061.1	6911.4
60°	2031.6	2022.8	2547.0	4233.3	8211.5	16408.8	23695.7	24081.8	21063.6	12662.6	6424.3
62.5°	1229.2	1255.8	1340.8	1900.5	3627.5	10193.5	20523.4	23128.9	21210.6	12297.7	6022.2
65°	1016.7	1018.5	1029.1	1305.4	1737.6	4265.2	15450.6	19993.8	20847.5	11647.7	5451.9
67.5°	871.5	887.4	928.1	1036.2	1225.7	1870.4	8895.2	15487.7	18638.8	10135.1	4562.7
70°	687.2	708.5	759.9	852.0	945.8	1170.8	3287.4	10305.1	14239.0	7639.4	3450.4
72.5°	579.2	577.4	604.0	692.6	751.0	823.6	1264.7	5774.3	8275.2	3647.0	1707.5
75°	448.1	465.8	499.5	579.2	614.6	596.9	685.5	2109.6	2965.1	1105.3	581.0
77.5°	350.7	364.9	395.0	472.9	508.3	423.3	395.0	754.5	952.9	396.8	262.1
80°	157.6	170.0	269.2	348.9	414.5	292.3	214.3	386.1	423.3	180.7	132.8
82.5°	28.3	47.8	157.6	184.2	212.5	189.5	111.6	200.2	207.2	72.6	46.1
85°	1.8	3.5	54.9	67.3	85.0	62.0	33.7	79.7	69.1	24.8	17.7
87.5°	0.0	0.0	0.0	1.8	1.8	8.9	10.6	14.2	10.6	8.9	7.1
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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 CATALOG NUMBER: GALN-SB4D-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0	6922.0
2.5°	6810.4	6558.9	6314.5	6114.3	5997.4	5799.0	5668.0	5646.7	5591.8	5639.6
5°	6679.4	6229.5	5774.3	5366.9	5032.1	4599.9	4277.6	4141.2	4022.5	4063.2
7.5°	6617.4	5907.1	5198.6	4502.5	3786.9	3096.1	2582.5	2368.2	2205.2	2228.2
10°	6534.1	5572.3	4461.8	3399.0	2440.8	1758.8	1404.6	1273.5	1200.9	1202.7
12.5°	6470.4	5172.0	3606.3	2304.4	1486.1	1123.0	1013.2	981.3	960.0	961.8
15°	6438.5	4700.9	2761.4	1535.7	1062.7	951.2	924.6	910.4	896.2	894.5
17.5°	6385.3	4176.6	2021.0	1121.2	929.9	890.9	867.9	852.0	834.3	830.7
20°	6305.6	3581.5	1477.2	947.6	871.5	841.3	809.5	788.2	766.9	763.4
22.5°	6158.6	2952.7	1135.4	876.8	828.9	795.3	756.3	731.5	710.3	706.7
25°	5885.8	2362.8	956.5	832.5	791.7	751.0	708.5	674.8	655.4	651.8
27.5°	5540.4	1856.3	867.9	791.7	743.9	706.7	658.9	627.0	609.3	605.8
30°	5133.1	1429.4	816.5	745.7	687.2	655.4	612.9	586.3	575.7	575.7
32.5°	4693.8	1142.5	795.3	699.6	637.6	602.2	568.6	557.9	554.4	552.6
35°	4281.1	991.9	784.7	662.4	593.4	559.7	545.5	547.3	554.4	554.4
37.5°	3914.4	944.1	779.3	635.9	554.4	524.3	533.1	549.1	542.0	542.0
40°	3583.2	949.4	775.8	616.4	522.5	504.8	522.5	510.1	492.4	490.6
42.5°	3329.9	993.7	768.7	600.5	503.0	490.6	483.5	464.1	462.3	465.8
45°	3145.7	1032.6	766.9	593.4	481.8	458.8	449.9	430.4	465.8	474.7
47.5°	2927.9	1032.6	766.9	568.6	446.4	437.5	423.3	402.1	437.5	446.4
50°	2646.2	967.1	736.8	540.2	418.0	412.7	387.9	361.3	354.2	359.6
52.5°	2290.2	848.4	660.7	501.3	389.7	379.0	348.9	329.5	324.1	324.1
55°	1884.6	710.3	557.9	444.6	359.6	340.1	318.8	310.0	304.7	301.1
57.5°	1532.1	582.7	448.1	395.0	331.2	306.4	299.3	288.7	279.9	274.5
60°	1257.6	458.8	370.2	350.7	302.9	279.9	278.1	263.9	240.9	237.3
62.5°	970.6	336.5	311.7	304.7	274.5	255.1	251.5	223.2	187.8	180.7
65°	685.5	262.1	251.5	267.5	244.4	226.7	217.9	175.4	138.2	132.8
67.5°	481.8	219.6	198.4	233.8	212.5	189.5	184.2	148.8	115.1	111.6
70°	343.6	178.9	163.0	200.2	170.0	166.5	155.9	124.0	93.9	90.3
72.5°	242.7	136.4	125.8	173.6	116.9	143.5	127.5	95.6	70.8	67.3
75°	178.9	97.4	88.6	101.0	85.0	108.0	90.3	63.8	44.3	42.5
77.5°	131.1	62.0	53.1	49.6	49.6	67.3	49.6	26.6	19.5	17.7
80°	92.1	28.3	24.8	21.3	19.5	15.9	7.1	3.5	1.8	1.8
82.5°	54.9	12.4	12.4	8.9	5.3	0.0	0.0	0.0	0.0	0.0
85°	12.4	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	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)