

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: P946995

Luminaire Tested: **GALN-SB2C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946995
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-SB2C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 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: 11844 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

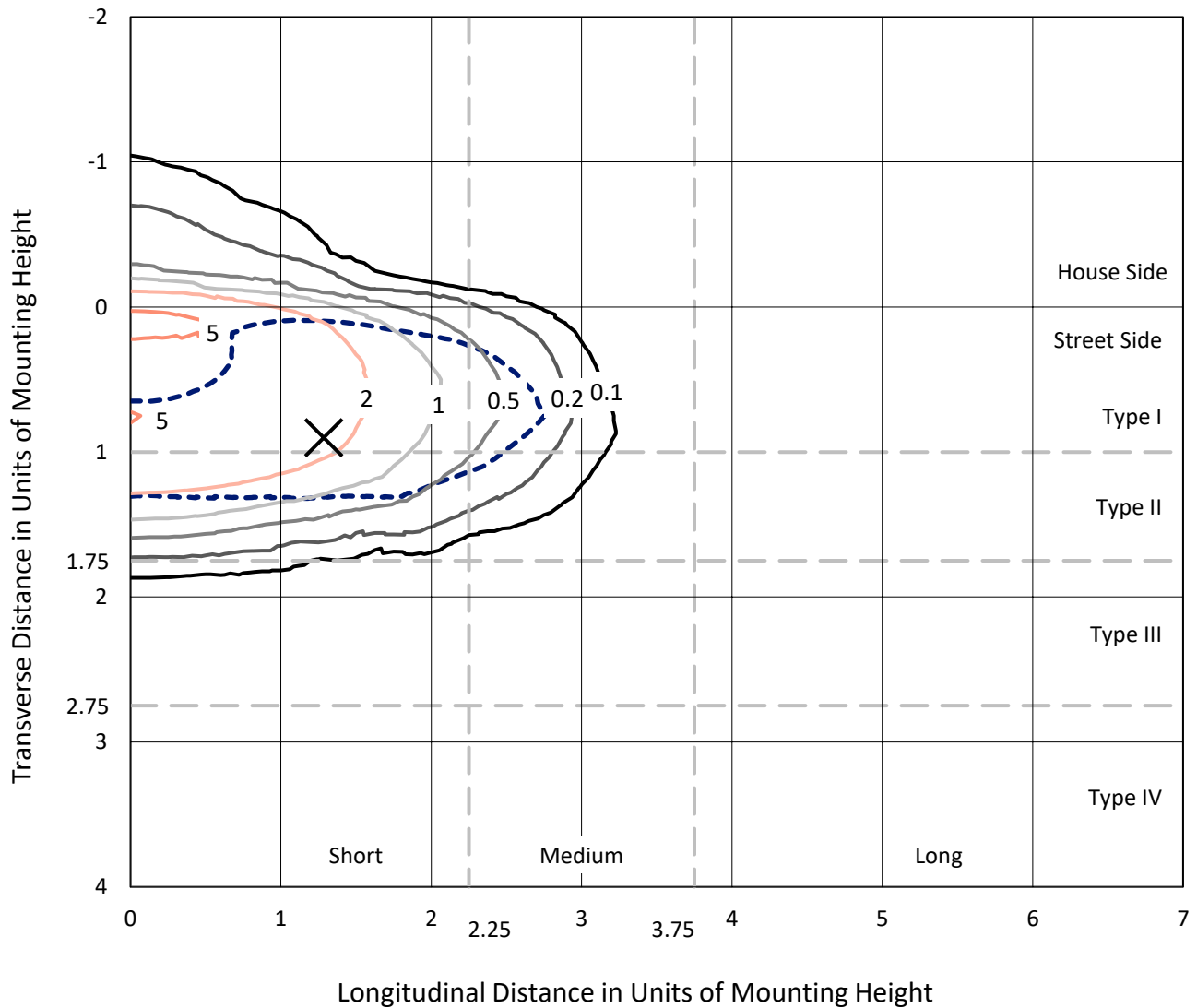
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

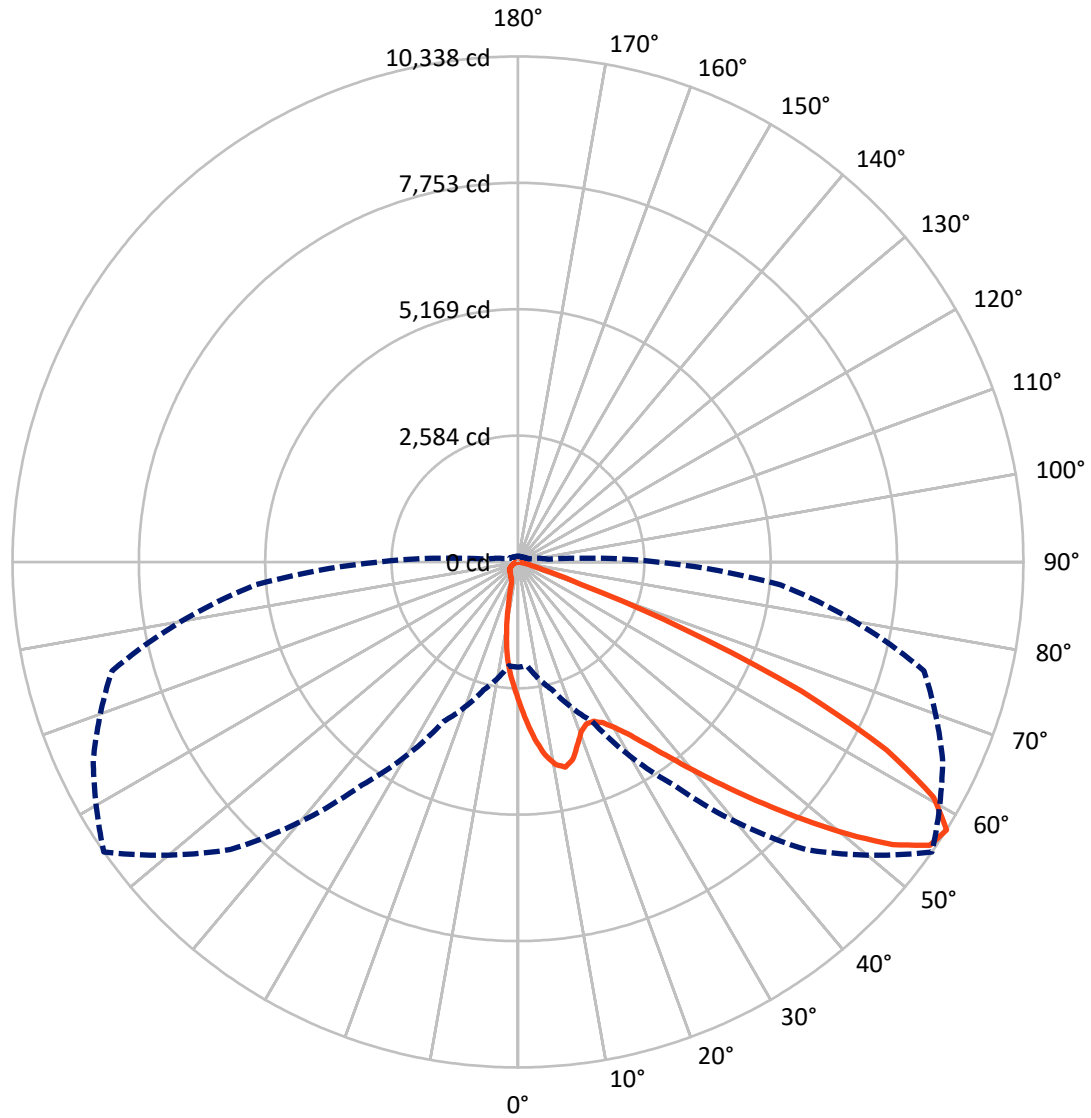
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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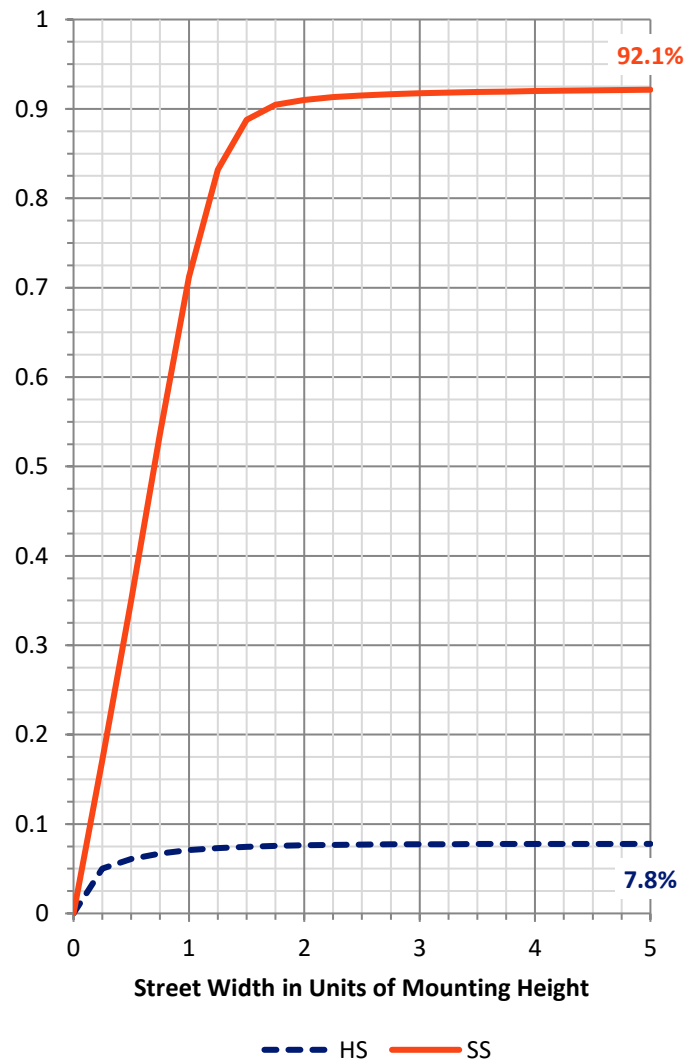
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.0	0.0	925.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	10919.0	0.0	10919.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	11844.0	0.0	11844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	2.2
10°-20°	641.5	5.4
20°-30°	1026.3	8.7
30°-40°	1737.1	14.7
40°-50°	2852.0	24.1
50°-60°	3134.5	26.5
60°-70°	1798.0	15.2
70°-80°	367.4	3.1
80°-90°	21.7	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°	11844.0	100.0
0°-180°	11844.0	100.0

Coefficient of Utilization



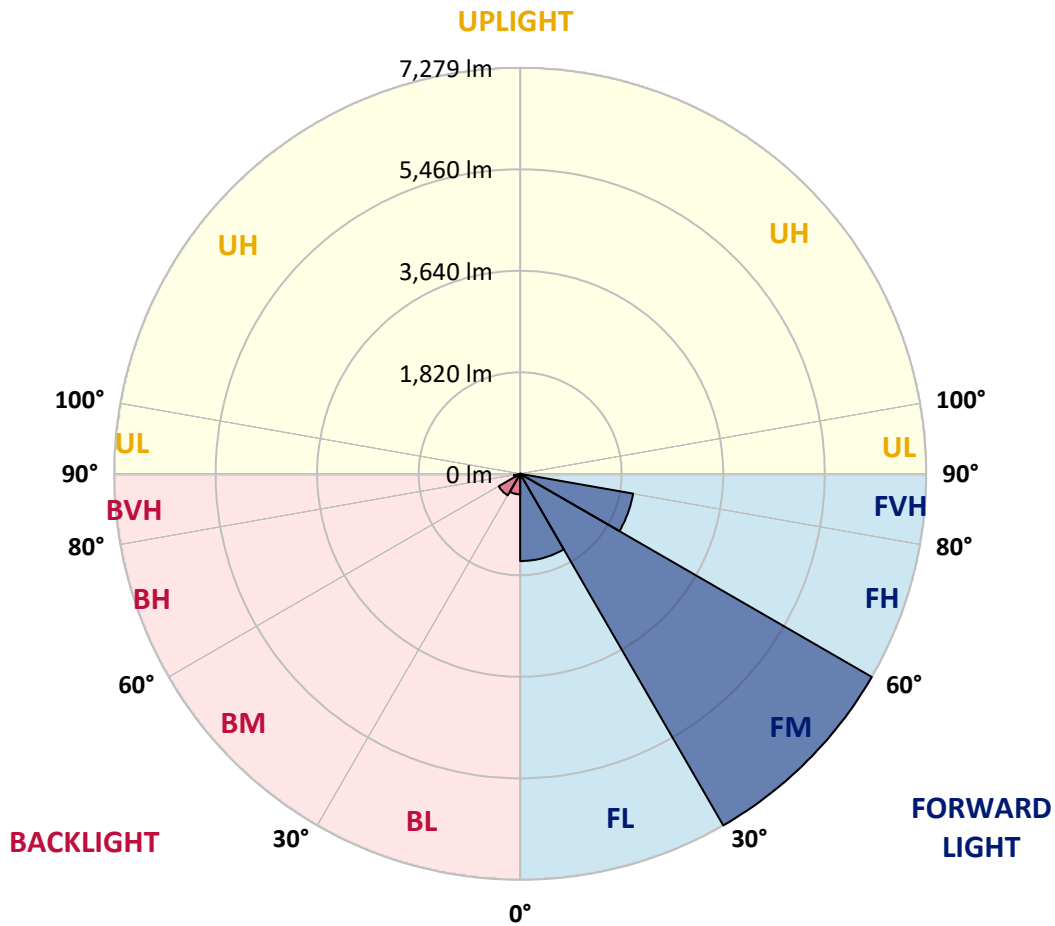
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.1	13.2			
FM (30°-60°)	7279.4	61.5			
FH (60°-80°)	2055.3	17.4			G2/5000
FVH (80°-90°)	20.2	0.2			G1/100
BL (0°-30°)	369.3	3.1	B1/500		
BM (30°-60°)	444.2	3.8	B1/1000		
BH (60°-80°)	110.0	0.9	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1
2.5°	3541.3	3496.8	3490.2	3481.5	3396.7	3333.2	3241.2	3140.4	3027.2	2911.8	2860.7
5°	4091.3	4056.2	4049.7	4008.8	3912.4	3804.3	3640.7	3434.0	3222.9	2974.6	2868.0
7.5°	4197.9	4191.3	4221.3	4219.8	4206.7	4121.2	3983.2	3737.1	3420.1	3052.0	2887.0
10°	3722.5	3739.3	3828.4	3906.5	4117.6	4240.3	4210.3	4007.3	3623.1	3140.4	2908.2
12.5°	3289.4	3269.7	3333.2	3421.6	3667.0	4032.1	4304.5	4233.0	3855.4	3240.5	2939.6
15°	3017.7	3009.7	3045.5	3086.4	3273.3	3641.4	4195.0	4416.3	4078.9	3358.8	2987.0
17.5°	2930.8	2924.2	2935.2	2945.4	3066.6	3351.5	3934.3	4528.7	4292.9	3493.9	3039.6
20°	3001.6	2992.9	2991.4	2983.4	3033.8	3228.0	3698.4	4536.8	4484.9	3616.6	3084.9
22.5°	3208.3	3198.1	3162.3	3130.2	3134.6	3244.8	3593.2	4456.4	4629.5	3731.2	3113.4
25°	3583.0	3566.2	3491.7	3383.6	3314.9	3361.7	3609.3	4350.5	4767.6	3821.1	3099.5
27.5°	4051.8	4029.9	3934.3	3773.6	3616.6	3559.6	3725.4	4277.5	4882.2	3889.7	3069.6
30°	4511.2	4482.7	4388.5	4263.6	4034.3	3854.7	3935.0	4309.7	5018.8	3961.3	3030.1
32.5°	5007.1	4980.1	4855.2	4700.4	4510.5	4268.8	4222.0	4466.7	5186.0	4061.3	3002.4
35°	5634.5	5592.1	5414.6	5203.6	5002.0	4757.3	4610.5	4737.6	5408.8	4214.0	3017.7
37.5°	6348.7	6291.8	6100.4	5809.0	5546.1	5272.2	5083.8	5110.1	5735.2	4418.5	3065.2
40°	7022.1	6970.2	6793.5	6518.9	6188.8	5856.5	5655.6	5597.2	6185.9	4667.5	3148.4
42.5°	7425.9	7379.2	7304.7	7188.6	6910.3	6571.5	6318.0	6191.7	6719.0	4965.5	3249.9
45°	7448.6	7407.7	7507.7	7642.9	7588.1	7362.4	7053.5	6822.0	7254.3	5245.2	3355.1
47.5°	7086.3	7058.6	7362.4	7834.2	8069.4	8164.3	7879.5	7399.7	7696.2	5446.0	3398.2
50°	6098.9	6088.7	6713.9	7580.0	8252.7	8866.9	8750.8	7937.2	8038.7	5549.7	3357.3
52.5°	5288.3	5251.0	5615.5	6766.5	7986.1	9236.4	9602.3	8464.5	8278.2	5569.5	3261.6
55°	4010.9	3978.1	4435.3	5405.1	7126.5	9105.0	10225.3	9008.6	8449.9	5519.1	3090.0
57.5°	2151.5	2131.1	2708.8	3597.6	5570.9	8316.2	10337.8	9584.1	8594.5	5385.4	2849.7
60°	837.7	834.0	1050.2	1745.5	3385.8	6765.7	9770.3	9929.5	8685.0	5221.1	2648.9
62.5°	506.8	517.8	552.9	783.6	1495.7	4203.0	8462.3	9536.6	8745.6	5070.7	2483.1
65°	419.2	419.9	424.3	538.2	716.4	1758.6	6370.6	8243.9	8595.9	4802.6	2247.9
67.5°	359.3	365.9	382.7	427.2	505.4	771.2	3667.7	6386.0	7685.2	4178.9	1881.3
70°	283.4	292.1	313.3	351.3	390.0	482.7	1355.5	4249.0	5871.1	3149.9	1422.7
72.5°	238.8	238.1	249.0	285.6	309.7	339.6	521.5	2380.9	3412.1	1503.7	704.0
75°	184.8	192.1	206.0	238.8	253.4	246.1	282.6	869.8	1222.6	455.7	239.5
77.5°	144.6	150.4	162.9	195.0	209.6	174.5	162.9	311.1	392.9	163.6	108.1
80°	65.0	70.1	111.0	143.9	170.9	120.5	88.4	159.2	174.5	74.5	54.8
82.5°	11.7	19.7	65.0	76.0	87.6	78.1	46.0	82.5	85.4	29.9	19.0
85°	0.7	1.5	22.6	27.8	35.1	25.6	13.9	32.9	28.5	10.2	7.3
87.5°	0.0	0.0	0.0	0.7	0.7	3.7	4.4	5.8	4.4	3.7	2.9
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°	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1
2.5°	2808.1	2704.4	2603.6	2521.1	2472.9	2391.1	2337.0	2328.3	2305.6	2325.4
5°	2754.1	2568.6	2380.9	2212.9	2074.9	1896.7	1763.7	1707.5	1658.6	1675.4
7.5°	2728.5	2435.6	2143.5	1856.5	1561.4	1276.6	1064.8	976.4	909.3	918.7
10°	2694.2	2297.6	1839.7	1401.5	1006.4	725.2	579.1	525.1	495.2	495.9
12.5°	2667.9	2132.6	1486.9	950.2	612.7	463.0	417.7	404.6	395.8	396.6
15°	2654.7	1938.3	1138.6	633.2	438.2	392.2	381.2	375.4	369.5	368.8
17.5°	2632.8	1722.1	833.3	462.3	383.4	367.4	357.9	351.3	344.0	342.5
20°	2600.0	1476.7	609.1	390.7	359.3	346.9	333.8	325.0	316.2	314.8
22.5°	2539.3	1217.5	468.1	361.5	341.8	327.9	311.8	301.6	292.9	291.4
25°	2426.9	974.3	394.4	343.3	326.5	309.7	292.1	278.3	270.2	268.8
27.5°	2284.5	765.4	357.9	326.5	306.7	291.4	271.7	258.5	251.2	249.8
30°	2116.5	589.4	336.7	307.5	283.4	270.2	252.7	241.7	237.4	237.4
32.5°	1935.4	471.1	327.9	288.5	262.9	248.3	234.4	230.1	228.6	227.9
35°	1765.2	409.0	323.5	273.1	244.7	230.8	224.9	225.7	228.6	228.6
37.5°	1614.0	389.3	321.3	262.2	228.6	216.2	219.8	226.4	223.5	223.5
40°	1477.4	391.5	319.9	254.2	215.4	208.1	215.4	210.3	203.0	202.3
42.5°	1373.0	409.7	317.0	247.6	207.4	202.3	199.4	191.3	190.6	192.1
45°	1297.1	425.8	316.2	244.7	198.6	189.2	185.5	177.5	192.1	195.7
47.5°	1207.2	425.8	316.2	234.4	184.0	180.4	174.5	165.8	180.4	184.0
50°	1091.1	398.8	303.8	222.7	172.4	170.2	159.9	149.0	146.1	148.3
52.5°	944.3	349.8	272.4	206.7	160.7	156.3	143.9	135.8	133.6	133.6
55°	777.1	292.9	230.1	183.3	148.3	140.2	131.5	127.8	125.6	124.2
57.5°	631.7	240.3	184.8	162.9	136.6	126.3	123.4	119.0	115.4	113.2
60°	518.5	189.2	152.6	144.6	124.9	115.4	114.7	108.8	99.3	97.9
62.5°	400.2	138.8	128.5	125.6	113.2	105.2	103.7	92.0	77.4	74.5
65°	282.6	108.1	103.7	110.3	100.8	93.5	89.8	72.3	57.0	54.8
67.5°	198.6	90.6	81.8	96.4	87.6	78.1	76.0	61.3	47.5	46.0
70°	141.7	73.8	67.2	82.5	70.1	68.7	64.3	51.1	38.7	37.2
72.5°	100.1	56.2	51.9	71.6	48.2	59.2	52.6	39.4	29.2	27.8
75°	73.8	40.2	36.5	41.6	35.1	44.5	37.2	26.3	18.3	17.5
77.5°	54.0	25.6	21.9	20.4	20.4	27.8	20.4	11.0	8.0	7.3
80°	38.0	11.7	10.2	8.8	8.0	6.6	2.9	1.5	0.7	0.7
82.5°	22.6	5.1	5.1	3.7	2.2	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.2	2.2	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)