

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: P455929

Luminaire Tested: **GALN-SA7A-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23364 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

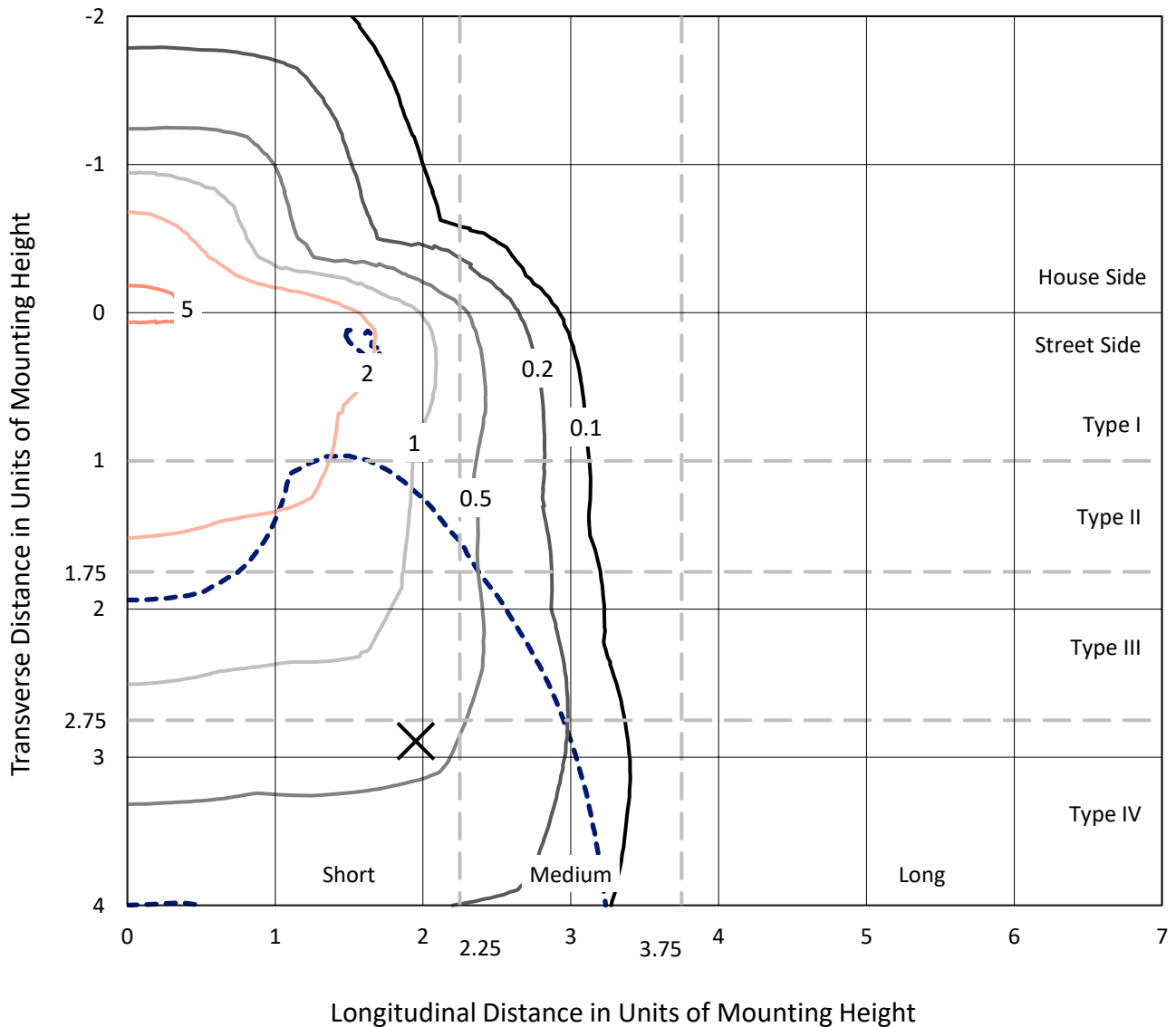
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

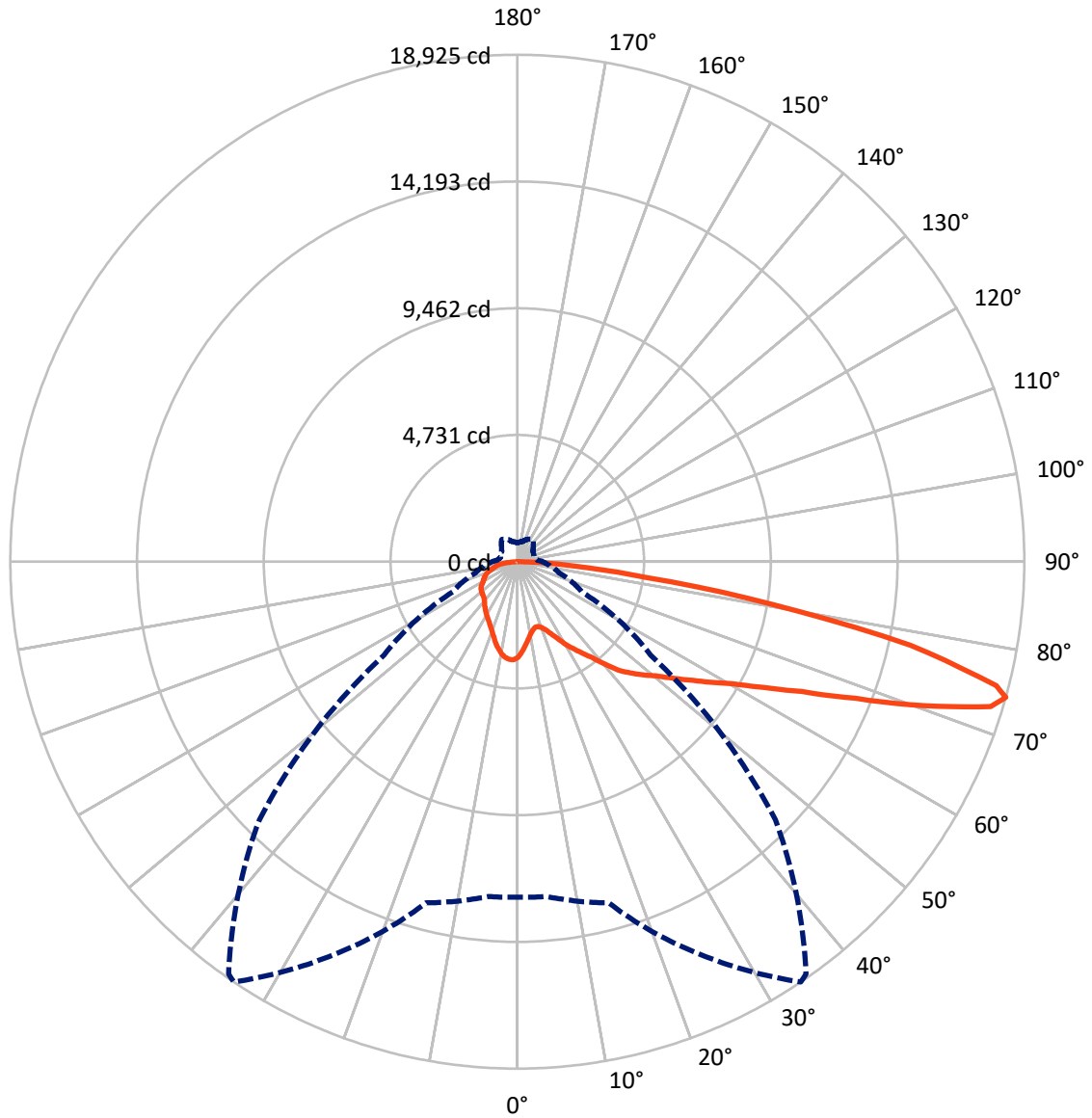
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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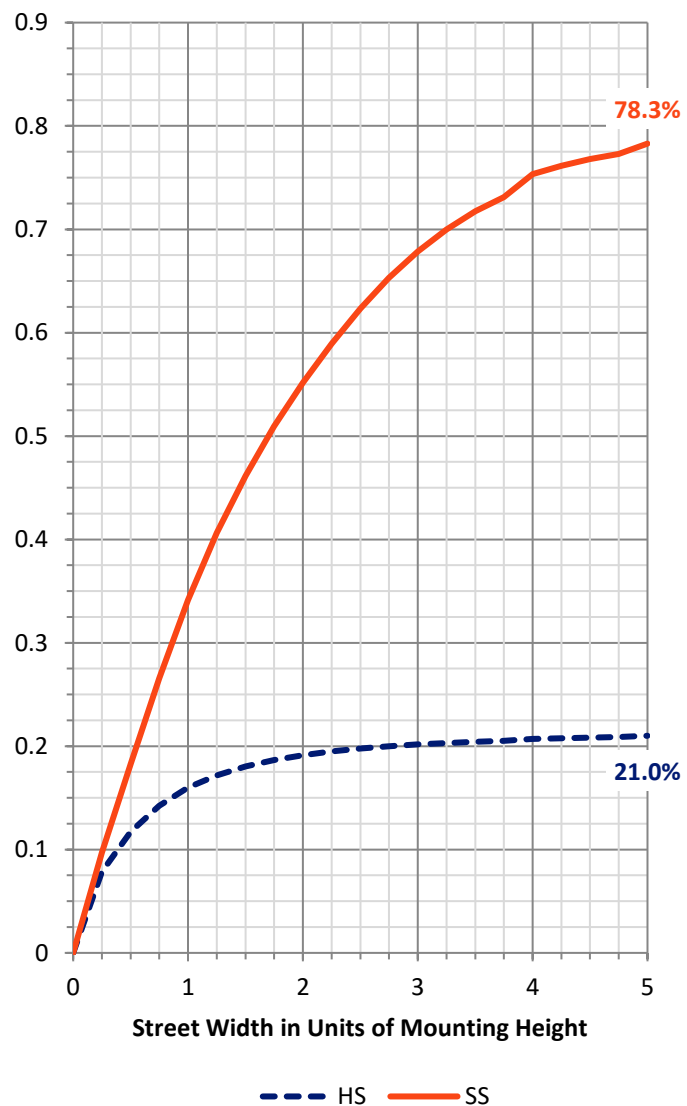
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4972.0	0.0	4972.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	18392.0	0.0	18392.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	23364.0	0.0	23364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	1.4
10°-20°	888.1	3.8
20°-30°	1464.2	6.3
30°-40°	2193.3	9.4
40°-50°	3188.4	13.6
50°-60°	4453.4	19.1
60°-70°	5575.5	23.9
70°-80°	4610.5	19.7
80°-90°	666.2	2.9
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°	23364.0	100.0
0°-180°	23364.0	100.0

Coefficient of Utilization



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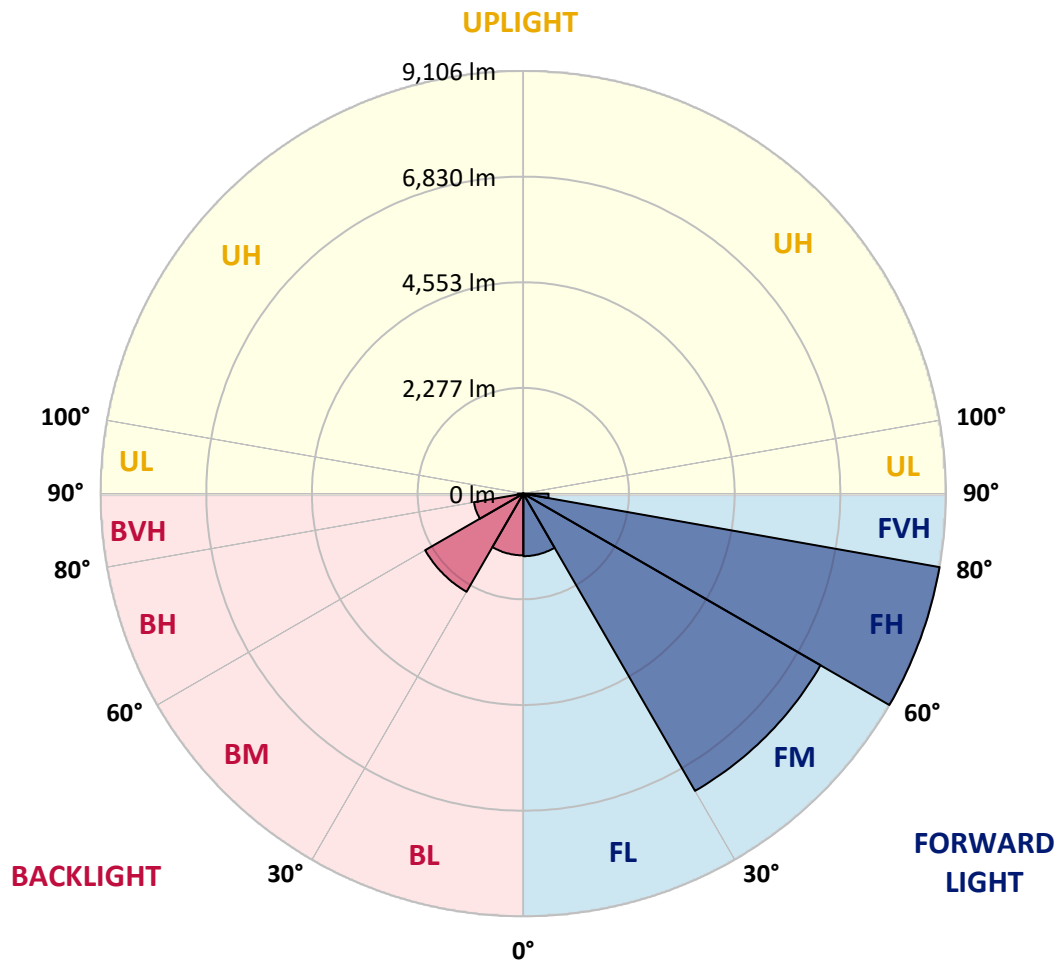
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.8	5.8			
FM (30°-60°)	7393.3	31.6			
FH (60°-80°)	9106.1	39.0			G4/12000
FVH (80°-90°)	545.8	2.3			G4/750
BL (0°-30°)	1329.9	5.7	B3/2500		
BM (30°-60°)	2441.8	10.5	B2/2500		
BH (60°-80°)	1079.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2
2.5°	3296.7	3313.5	3322.6	3354.9	3362.7	3373.1	3400.2	3436.5	3483.1	3524.5	3560.7
5°	3022.3	3048.2	3063.7	3092.2	3147.9	3153.0	3225.5	3308.4	3402.8	3490.9	3563.3
7.5°	2762.1	2790.6	2803.6	2855.3	2929.1	2940.8	3046.9	3177.6	3335.5	3468.9	3580.2
10°	2566.7	2580.9	2609.4	2648.2	2736.2	2744.0	2882.5	3057.2	3261.8	3458.5	3608.6
12.5°	2460.6	2468.3	2474.8	2516.2	2602.9	2614.6	2759.5	2957.6	3203.5	3466.3	3655.2
15°	2476.1	2478.7	2450.2	2458.0	2527.9	2544.7	2688.4	2891.6	3167.3	3485.7	3725.1
17.5°	2606.8	2597.8	2527.9	2491.6	2540.8	2548.6	2674.1	2865.7	3150.4	3521.9	3797.6
20°	2812.6	2799.7	2679.3	2599.0	2627.5	2634.0	2720.7	2885.1	3167.3	3581.5	3910.2
22.5°	3068.9	3063.7	2881.2	2784.1	2782.8	2782.8	2828.1	2955.0	3217.7	3663.0	4028.0
25°	3427.4	3400.2	3162.1	3036.5	3001.6	2999.0	2993.8	3070.2	3282.5	3749.7	4167.8
27.5°	3795.0	3748.4	3536.2	3343.3	3268.2	3259.2	3225.5	3233.3	3365.3	3848.1	4327.0
30°	4125.1	4095.3	3896.0	3682.4	3593.1	3572.4	3479.2	3436.5	3503.8	4025.4	4580.7
32.5°	4377.5	4359.4	4204.0	4009.9	3877.9	3874.0	3738.1	3703.1	3720.0	4240.3	4870.6
35°	4582.0	4588.5	4509.5	4341.2	4189.8	4167.8	4077.2	4033.2	3984.0	4550.9	5235.6
37.5°	4861.6	4875.8	4870.6	4725.7	4540.6	4545.7	4525.0	4452.6	4321.8	4897.8	5640.8
40°	5169.6	5180.0	5178.7	5123.0	5025.9	5031.1	5023.4	4940.5	4745.1	5339.2	6091.2
42.5°	5595.5	5546.3	5418.1	5473.8	5530.7	5555.3	5608.4	5529.5	5261.5	5810.3	6514.4
45°	6071.8	5978.6	5688.7	5714.5	5925.5	5972.1	6264.6	6155.9	5822.0	6351.4	7012.8
47.5°	6372.1	6280.2	6035.5	6030.4	6309.9	6355.2	6873.0	6832.9	6331.9	6935.1	7621.1
50°	6640.0	6627.1	6351.4	6417.4	6690.5	6757.8	7535.7	7498.2	6840.6	7623.7	8283.8
52.5°	7037.4	6932.5	6712.5	6848.4	7209.5	7297.5	8193.2	8083.2	7307.9	8232.0	8927.1
55°	7216.0	7191.4	7178.4	7296.2	7792.0	7855.4	8832.6	8580.2	7706.5	8747.2	9416.4
57.5°	7693.6	7648.3	7776.4	7856.7	8478.0	8575.0	9500.5	9099.3	8056.0	9156.2	9654.5
60°	8312.3	8287.7	8405.5	8550.5	9244.2	9391.8	10261.6	9541.9	8336.9	9362.0	9523.8
62.5°	9236.5	9233.9	9211.9	9522.5	10330.2	10466.1	11135.3	9972.9	8380.9	9208.0	8848.2
65°	10561.9	10515.3	10323.7	10662.8	11681.5	11840.7	12045.2	10213.7	8115.6	8417.1	7450.3
67.5°	11948.1	11945.5	11790.2	12230.3	13621.7	13786.1	13182.9	10160.6	7379.1	6818.6	5291.3
70°	13097.5	13041.8	13239.9	14412.6	16100.4	16290.7	14178.3	9535.5	5877.6	4503.0	3144.0
72.5°	13373.2	13375.8	13787.4	16095.2	18480.7	18510.5	14536.8	7728.5	3933.5	2483.9	1572.6
74°	12524.1	12546.1	13184.2	16179.3	18924.6	18790.0	13620.4	6074.4	2659.9	1621.8	1133.8
75°	11431.7	11293.2	12216.0	15618.9	18463.9	18318.9	12547.4	4874.5	2029.5	1295.6	992.8
77.5°	6111.9	6253.0	7676.8	11655.6	15000.2	14833.2	8507.7	2337.6	1096.3	902.2	714.5
80°	2175.8	2399.7	3373.1	6099.0	9617.0	9668.8	4060.4	1071.7	771.4	665.3	504.8
82.5°	887.9	912.5	1448.4	2706.5	4883.6	4930.2	1658.1	636.8	551.4	458.2	301.6
85°	346.9	357.2	640.7	1216.7	2083.9	2219.8	573.4	336.5	339.1	262.8	154.0
87.5°	116.5	132.0	262.8	405.1	708.0	693.8	167.0	99.7	121.7	113.9	47.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2	3567.2
2.5°	3578.9	3603.5	3620.3	3638.4	3655.2	3660.4	3656.5	3668.2	3669.5	3670.8	3672.1
5°	3599.6	3633.2	3665.6	3683.7	3691.5	3685.0	3663.0	3651.4	3641.0	3633.2	3635.8
7.5°	3628.1	3675.9	3705.7	3713.5	3692.8	3663.0	3608.6	3565.9	3538.7	3520.6	3519.3
10°	3672.1	3718.7	3743.3	3721.2	3664.3	3591.8	3506.4	3426.1	3365.3	3347.2	3345.9
12.5°	3727.7	3780.8	3779.5	3714.8	3615.1	3485.7	3347.2	3254.0	3171.2	3129.7	3146.6
15°	3800.2	3840.3	3802.8	3686.3	3528.4	3351.1	3180.2	3053.4	2960.2	2916.2	2918.8
17.5°	3884.3	3919.3	3819.6	3635.8	3406.7	3178.9	2980.9	2860.5	2786.7	2754.4	2751.8
20°	3989.2	3999.5	3819.6	3547.8	3250.1	2978.3	2789.3	2705.2	2663.8	2646.9	2652.1
22.5°	4101.8	4081.1	3798.9	3423.5	3044.3	2768.6	2641.8	2604.2	2583.5	2580.9	2583.5
25°	4228.6	4170.4	3756.2	3255.3	2829.4	2587.4	2513.6	2520.1	2524.0	2524.0	2533.0
27.5°	4384.0	4267.5	3685.0	3043.0	2578.3	2419.1	2398.4	2443.7	2464.4	2468.3	2474.8
30°	4588.5	4373.6	3567.2	2777.7	2364.8	2267.7	2303.9	2364.8	2388.1	2402.3	2399.7
32.5°	4831.8	4490.1	3408.0	2512.3	2192.6	2161.6	2205.6	2267.7	2293.6	2301.3	2291.0
35°	5117.8	4622.1	3198.3	2263.8	2042.5	2060.6	2112.4	2131.8	2155.1	2155.1	2160.3
37.5°	5425.9	4728.3	2942.1	2036.0	1926.0	1992.0	2029.5	2011.4	2001.1	1988.1	1994.6
40°	5739.1	4807.2	2609.4	1810.8	1809.5	1920.8	1931.2	1879.4	1838.0	1825.0	1818.6
42.5°	6012.2	4856.4	2309.1	1636.1	1699.5	1850.9	1858.7	1775.8	1709.8	1671.0	1658.1
45°	6334.5	4913.3	2015.3	1491.1	1597.2	1795.3	1814.7	1703.4	1606.3	1524.7	1504.0
47.5°	6775.9	5042.8	1783.6	1378.5	1523.4	1760.3	1787.5	1643.8	1515.7	1409.5	1392.7
50°	7274.2	5220.1	1603.7	1302.1	1466.5	1729.2	1762.9	1583.0	1431.5	1313.8	1300.8
52.5°	7731.1	5315.9	1448.4	1233.5	1410.8	1672.3	1730.5	1539.0	1348.7	1218.0	1206.3
55°	7980.9	5160.6	1295.6	1166.2	1334.5	1598.5	1685.2	1478.1	1268.5	1167.5	1150.7
57.5°	8014.6	4839.6	1157.1	1093.7	1254.2	1507.9	1601.1	1404.4	1216.7	1132.6	1118.3
60°	7754.4	4360.7	1049.7	1034.2	1172.7	1405.7	1506.6	1339.6	1163.6	1093.7	1079.5
62.5°	7107.3	3840.3	974.6	979.8	1089.8	1298.2	1436.7	1277.5	1113.1	1051.0	1038.1
65°	5994.1	3169.9	902.2	924.2	1016.1	1214.1	1373.3	1225.7	1062.7	1018.7	1007.0
67.5°	4163.9	2288.4	842.6	865.9	946.2	1128.7	1299.5	1170.1	1005.7	982.4	964.3
70°	2305.2	1408.2	772.7	799.9	873.7	1032.9	1216.7	1086.0	922.9	912.5	886.6
72.5°	1211.5	897.0	693.8	723.5	775.3	909.9	1089.8	994.1	841.3	797.3	763.7
74°	946.2	735.2	640.7	671.8	706.7	837.4	1014.8	928.0	783.1	731.3	705.4
75°	824.5	654.9	595.4	635.5	666.6	788.3	956.5	881.5	750.7	701.5	678.2
77.5°	582.5	490.6	486.7	534.6	551.4	691.2	862.0	802.5	669.2	617.4	595.4
80°	409.0	367.6	385.7	415.5	438.8	610.9	799.9	693.8	548.8	488.0	480.2
82.5°	266.6	240.7	275.7	302.9	310.6	450.4	645.9	526.8	400.0	324.9	301.6
85°	123.0	120.4	157.9	154.0	152.7	220.0	383.1	308.1	230.4	172.1	161.8
87.5°	31.1	29.8	38.8	32.4	38.8	33.7	34.9	9.1	1.3	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	0.0

(END OF REPORT)