

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: P648172

Luminaire Tested: **GALN-SA9A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28525.4 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

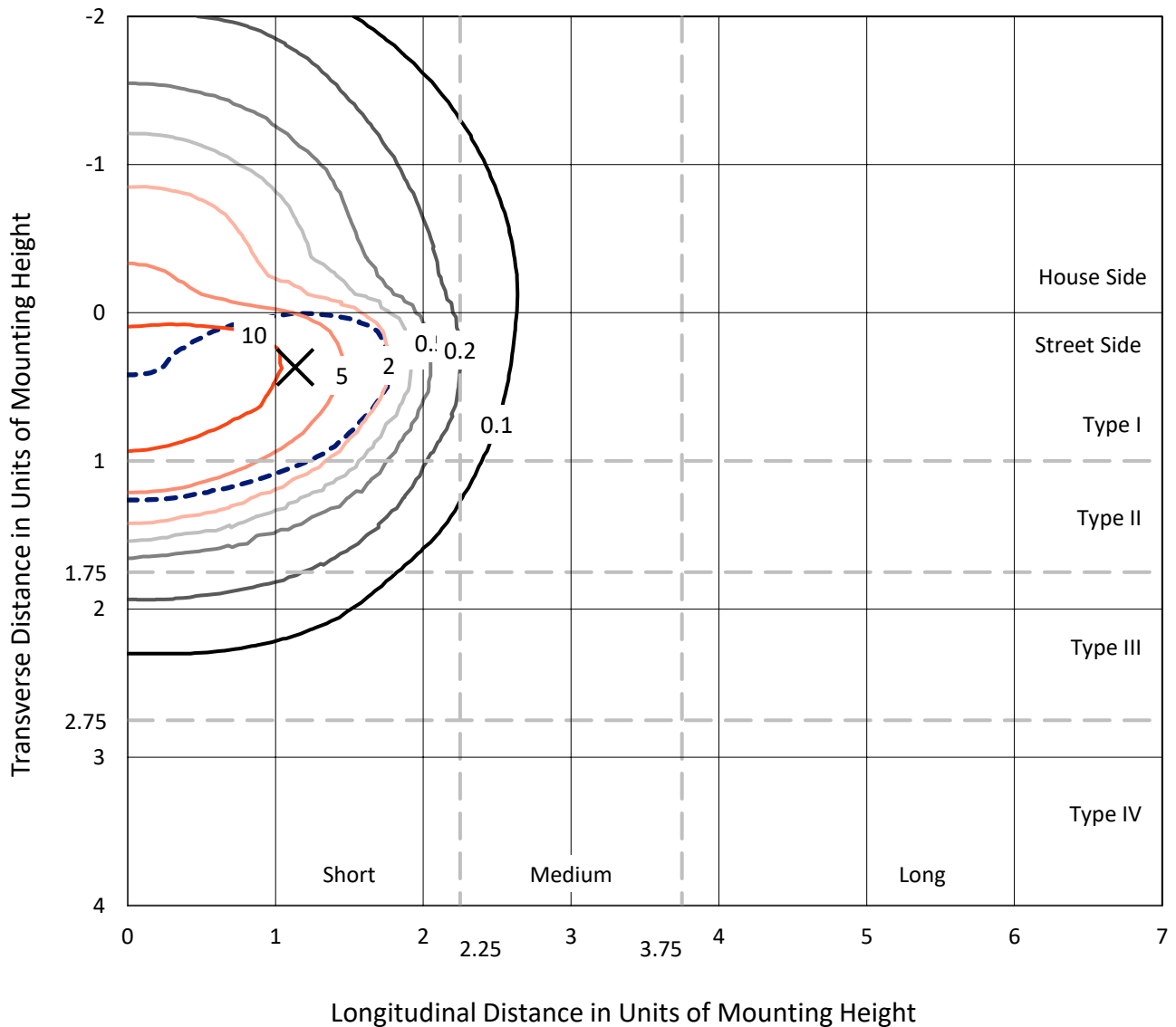
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648172  
 CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

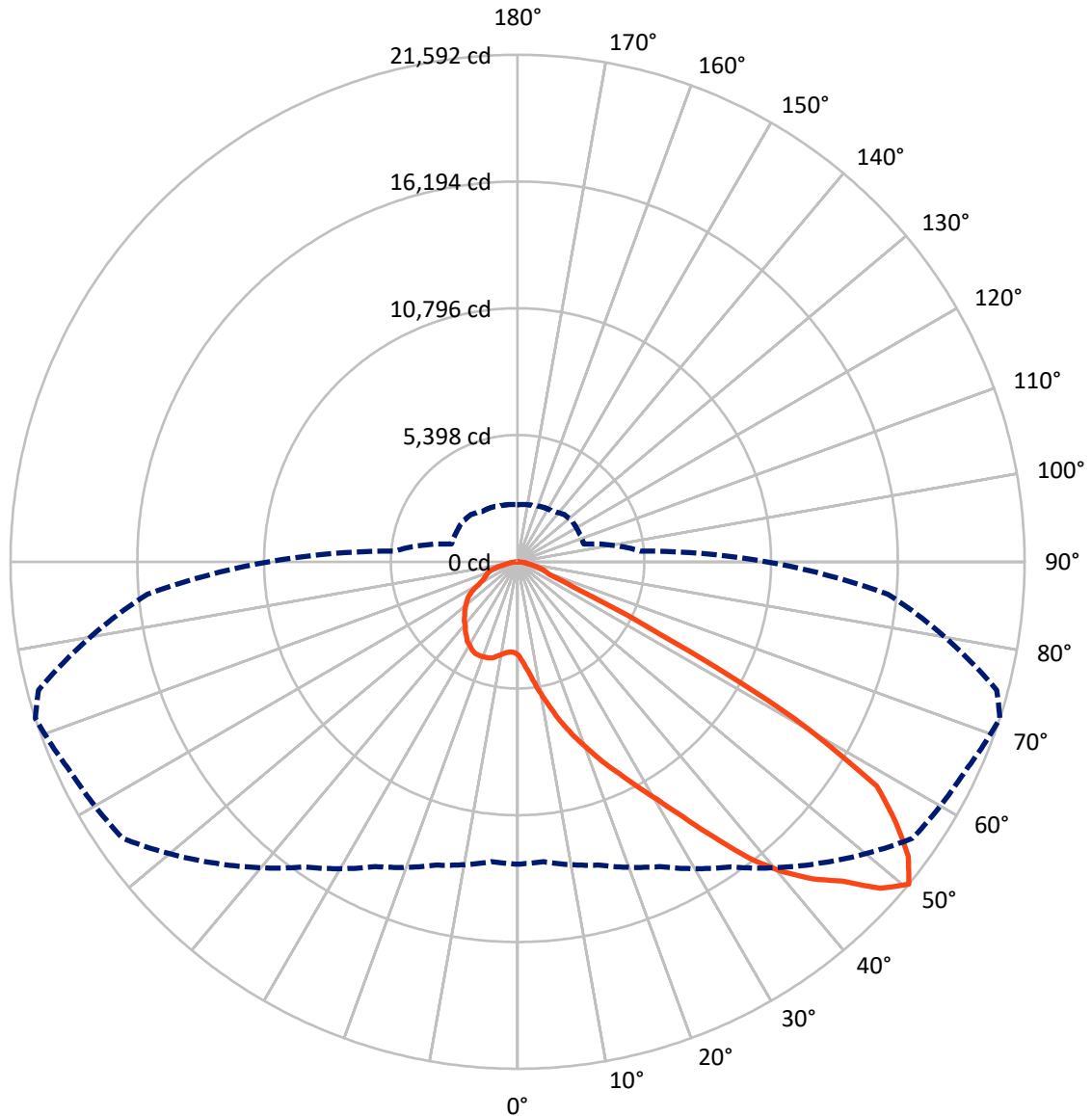
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P648172  
CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P648172  
 CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

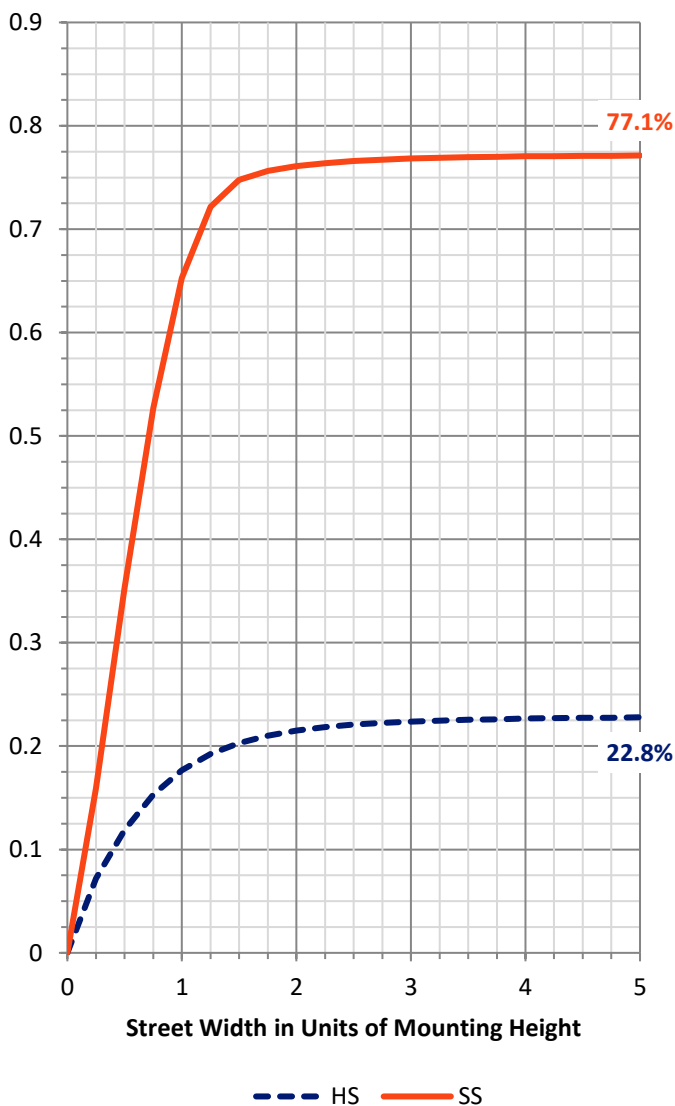
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6535.3	0.0	6535.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	21990.1	0.0	21990.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	28525.4	0.0	28525.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.1	1.6
10°-20°	1746.1	6.1
20°-30°	3385.6	11.9
30°-40°	5608.8	19.7
40°-50°	7848.0	27.5
50°-60°	6620.8	23.2
60°-70°	2018.0	7.1
70°-80°	708.0	2.5
80°-90°	123.1	0.4
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°	28525.4	100.0
0°-180°	28525.4	100.0

**Coefficient of Utilization**



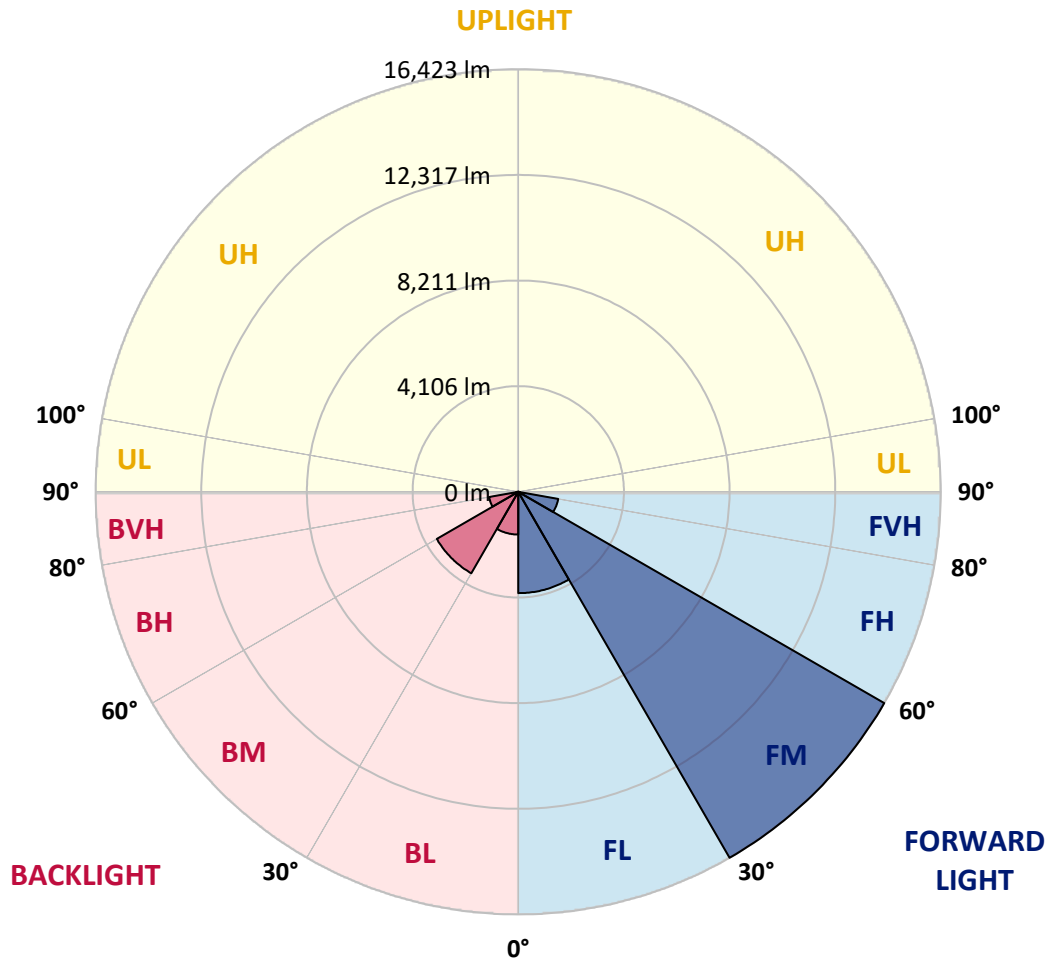
REPORT NUMBER: P648172  
 CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3937.5	13.8			
FM (30°-60°)	16422.9	57.6			
FH (60°-80°)	1574.6	5.5			G1/1800
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	1661.3	5.8	B3/2500		
BM (30°-60°)	3654.7	12.8	B3/5000		
BH (60°-80°)	1151.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	67.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P648172

CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0
2.5°	5107.6	5075.8	4980.5	4948.7	4835.8	4631.1	4560.4	4352.2	4264.0	4182.8	4087.5
5°	6459.4	6311.2	6300.6	6120.6	5859.4	5707.6	5255.8	4952.2	4673.4	4532.2	4271.0
7.5°	7320.7	7324.3	7324.3	7176.0	6967.8	6583.0	6177.1	5630.0	5209.9	5001.6	4556.9
10°	8139.7	8069.0	8030.2	8016.1	7874.9	7500.7	7066.6	6388.9	5813.5	5569.9	4772.2
12.5°	8718.5	8658.5	8746.7	8700.9	8598.5	8354.9	7945.5	7172.5	6452.4	6124.2	5118.2
15°	8993.9	9036.2	9106.8	9233.8	9188.0	9096.2	8644.4	7977.3	7140.7	6770.1	5425.3
17.5°	9417.5	9300.9	9385.7	9544.5	9671.5	9629.2	9371.6	8559.7	7821.9	7366.6	5838.2
20°	9713.9	9646.9	9689.2	9872.8	9968.1	10208.1	10073.9	9322.1	8475.0	7994.9	6325.3
22.5°	10561.1	10462.2	10324.6	10352.8	10388.1	10557.5	10589.3	10158.6	9233.8	8725.6	6787.7
25°	11605.9	11514.1	11351.7	11185.9	11083.4	11051.7	11161.1	10815.2	9961.0	9435.1	7285.4
27.5°	12756.6	12601.3	12498.9	12156.5	11881.2	11838.8	11785.9	11598.8	10822.2	10254.0	7846.7
30°	13875.5	13752.0	13614.3	13067.2	12781.3	12735.4	12474.2	12527.1	11757.7	11125.8	8482.0
32.5°	14722.7	14733.2	14419.1	14006.1	13737.9	13494.3	13399.0	13550.8	12957.8	12449.5	9191.5
35°	15407.4	15439.2	15139.1	14765.0	14475.6	14645.0	14602.6	14673.3	14390.8	13769.6	10017.5
37.5°	16074.6	15915.7	15594.5	15414.5	15262.7	15541.5	15901.6	15961.6	16014.5	15283.9	10977.6
40°	16184.0	16198.1	16011.0	16138.1	15947.5	16367.5	17204.1	17126.4	17341.7	16702.9	12018.9
42.5°	16028.7	16060.4	16134.6	16314.6	16773.4	17278.2	18520.7	18203.0	18464.2	17895.9	13031.9
45°	15774.6	15643.9	15735.7	16420.4	17214.6	18337.2	19724.3	19477.3	19392.6	18916.0	14239.1
47.5°	14560.3	14694.4	14980.4	15824.0	17017.0	18520.7	20578.6	20522.0	20776.2	20440.9	15336.9
50°	12876.6	12823.7	13374.3	14323.8	15862.8	18160.7	20532.7	21044.5	21591.6	21125.7	15827.5
52.5°	9643.3	9925.7	10398.7	11577.7	13773.1	16198.1	19530.2	20384.4	20829.1	20730.3	15432.1
55°	6095.9	6180.6	6466.6	7867.8	9844.5	13000.1	16741.7	18721.9	19516.1	19886.7	15068.6
57.5°	2961.5	2802.7	3152.0	4278.1	5686.5	8743.2	12911.9	16307.5	18033.6	18704.2	14277.9
60°	1546.0	1606.0	1743.7	2146.1	2940.3	4539.3	8047.9	10868.1	13504.9	14535.6	10822.2
62.5°	1281.3	1302.5	1394.3	1595.4	1955.5	2612.0	4108.6	5298.2	6886.6	7814.9	6155.9
65°	1087.2	1097.8	1196.6	1330.7	1560.1	1839.0	2114.3	2213.1	2679.1	2749.7	2188.5
67.5°	907.2	917.8	1023.6	1150.7	1298.9	1373.1	1443.7	1436.6	1489.6	1468.4	1464.8
70°	698.9	709.5	818.9	953.1	1027.1	984.8	1203.6	1253.0	1274.3	1291.9	1320.1
72.5°	504.7	525.9	610.7	706.0	667.1	765.9	991.8	1066.0	1094.2	1104.8	1140.1
75°	367.1	374.1	395.3	367.1	423.6	533.0	698.9	790.7	826.0	836.6	889.5
77.5°	162.4	165.9	169.4	211.8	271.8	331.8	416.5	490.6	540.0	554.2	568.3
80°	84.7	88.2	109.4	144.7	194.1	243.6	303.6	345.9	377.7	381.2	395.3
82.5°	52.9	56.5	77.7	102.3	137.7	180.0	222.4	257.7	282.3	285.9	289.5
85°	24.7	31.8	45.9	63.5	91.8	116.5	120.0	102.3	109.4	113.0	105.9
87.5°	7.0	10.6	14.1	10.6	14.1	14.1	17.6	21.1	21.1	21.1	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648172

CATALOG NUMBER: GALN-SA9A-835-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0	3971.0
2.5°	4034.5	4002.8	3879.2	3833.3	3713.3	3734.5	3670.9	3667.4	3653.3	3649.8	3646.3
5°	4133.4	4034.5	3886.3	3773.4	3706.3	3699.2	3653.3	3653.3	3667.4	3678.0	3653.3
7.5°	4295.7	4182.8	3932.1	3826.3	3766.2	3755.7	3723.9	3699.2	3731.0	3720.3	3692.2
10°	4482.8	4285.1	4020.4	3928.6	3829.8	3805.1	3805.1	3815.7	3762.7	3780.4	3752.1
12.5°	4691.0	4426.3	4133.4	4027.4	3911.0	3896.8	3889.8	3812.1	3840.4	3826.3	3755.7
15°	4955.8	4588.7	4278.1	4098.1	3999.3	3935.7	3843.9	3829.8	3812.1	3776.9	3745.1
17.5°	5241.7	4765.2	4345.2	4119.2	3971.0	3925.1	3854.5	3780.4	3727.5	3734.5	3709.8
20°	5485.2	4927.6	4369.8	4140.4	3949.8	3861.6	3752.1	3706.3	3649.8	3646.3	3642.8
22.5°	5774.7	5146.4	4405.2	4084.0	3886.3	3794.5	3720.3	3639.2	3600.4	3551.0	3575.6
25°	6120.6	5231.1	4412.2	4052.2	3840.4	3678.0	3639.2	3551.0	3536.8	3466.3	3480.4
27.5°	6371.2	5277.0	4355.8	3953.4	3734.5	3611.0	3540.3	3476.8	3452.1	3399.2	3385.1
30°	6706.6	5347.6	4235.7	3829.8	3628.6	3490.9	3448.6	3434.5	3363.8	3307.4	3300.3
32.5°	7087.8	5393.5	4158.0	3702.7	3519.2	3413.3	3434.5	3367.4	3279.1	3229.7	3215.6
35°	7391.4	5411.2	3963.9	3558.0	3445.0	3378.0	3353.3	3339.2	3212.1	3166.2	3130.9
37.5°	7853.7	5372.3	3801.5	3455.6	3363.8	3339.2	3318.0	3222.7	3078.0	3010.9	2961.5
40°	8393.8	5361.7	3593.3	3310.9	3286.3	3314.4	3250.9	3102.6	2901.5	2827.3	2792.0
42.5°	8912.7	5435.8	3462.7	3233.2	3201.5	3212.1	3123.9	2901.5	2802.7	2760.3	2703.8
45°	9781.0	5591.2	3247.4	3113.3	3099.1	3092.1	2986.2	2753.2	2696.7	2643.8	2633.2
47.5°	10564.6	5488.8	3109.8	2989.7	3003.8	2965.0	2739.1	2664.9	2601.4	2548.5	2530.8
50°	10610.5	5245.2	2915.6	2894.4	2898.0	2830.9	2615.5	2566.1	2484.9	2449.7	2425.0
52.5°	10370.4	4846.4	2735.6	2742.6	2753.2	2643.8	2463.8	2428.5	2361.4	2312.0	2297.9
55°	9696.3	4225.1	2559.1	2587.3	2615.5	2407.3	2350.8	2262.6	2209.6	2139.1	2142.6
57.5°	8542.1	3402.7	2312.0	2357.8	2417.9	2188.5	2146.1	2036.7	1959.0	1902.5	1895.5
60°	5725.3	2421.4	1941.4	1959.0	2093.1	2001.3	1997.8	1888.4	1782.5	1733.1	1704.9
62.5°	3378.0	1849.6	1676.6	1659.0	1655.5	1708.4	1796.7	1757.8	1620.2	1524.9	1553.1
65°	1768.4	1599.0	1560.1	1500.1	1464.8	1450.7	1517.8	1535.5	1443.7	1341.3	1334.2
67.5°	1486.1	1486.1	1454.3	1433.1	1383.6	1323.7	1281.3	1224.8	1210.7	1182.5	1147.2
70°	1351.9	1387.2	1376.6	1327.2	1284.8	1217.8	1108.3	1016.6	928.3	896.5	917.8
72.5°	1179.0	1214.3	1214.3	1189.5	1133.1	1030.7	924.8	818.9	744.8	688.3	681.2
75°	907.2	924.8	967.2	938.9	864.8	801.2	691.9	582.4	511.8	458.8	448.3
77.5°	578.9	607.1	607.1	603.6	550.6	490.6	420.1	342.4	289.5	250.6	240.0
80°	384.8	402.4	416.5	402.4	367.1	321.2	268.3	215.3	176.5	144.7	137.7
82.5°	282.3	303.6	314.1	300.0	264.7	229.4	190.6	151.7	113.0	88.2	81.2
85°	109.4	113.0	127.1	151.7	148.2	144.7	116.5	84.7	63.5	45.9	42.4
87.5°	28.3	24.7	28.3	28.3	24.7	21.1	21.1	21.1	21.1	10.6	14.1
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)