

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: P647518

Luminaire Tested: **GALN-SA6D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26370.7 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

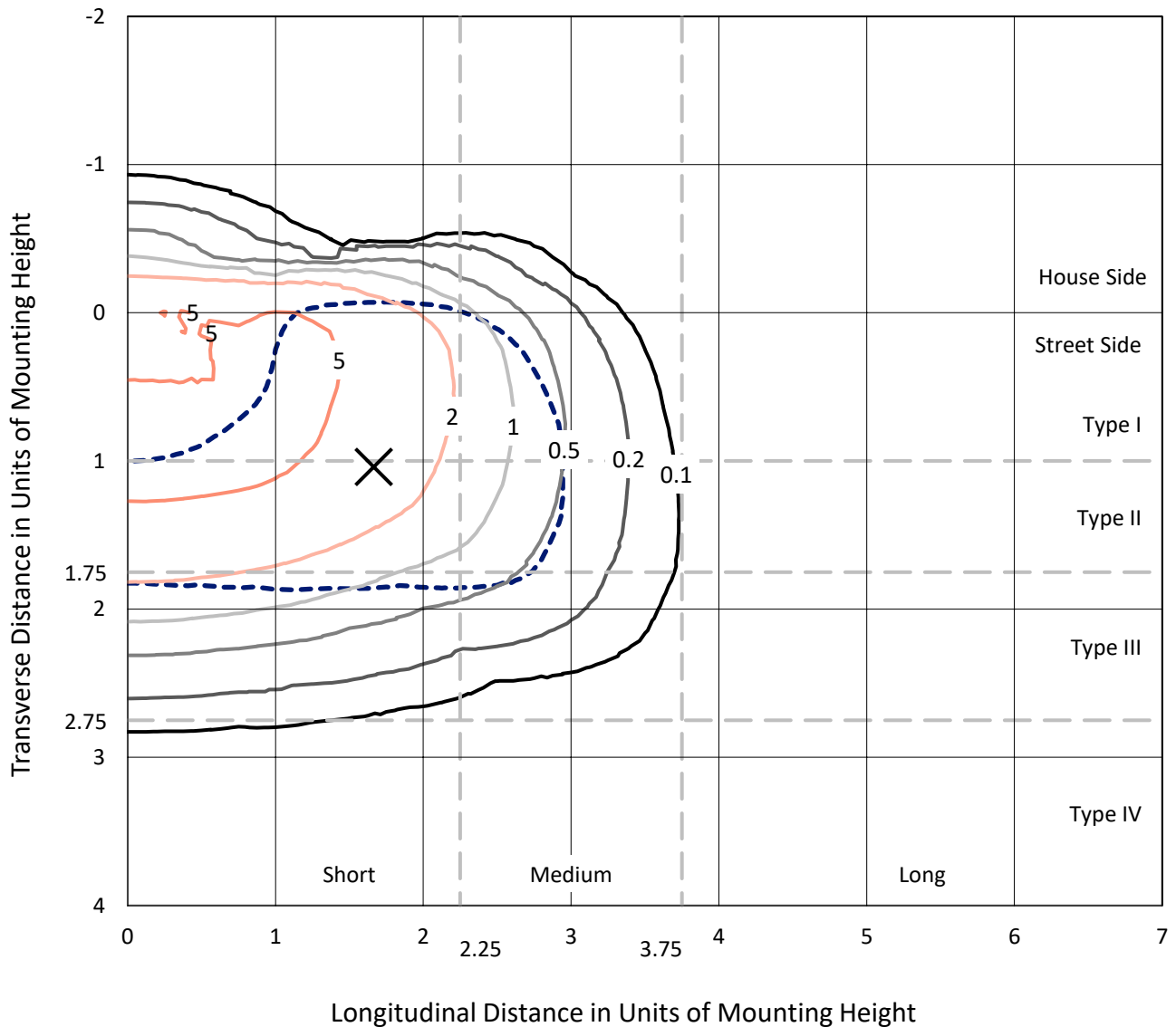
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647518
 CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

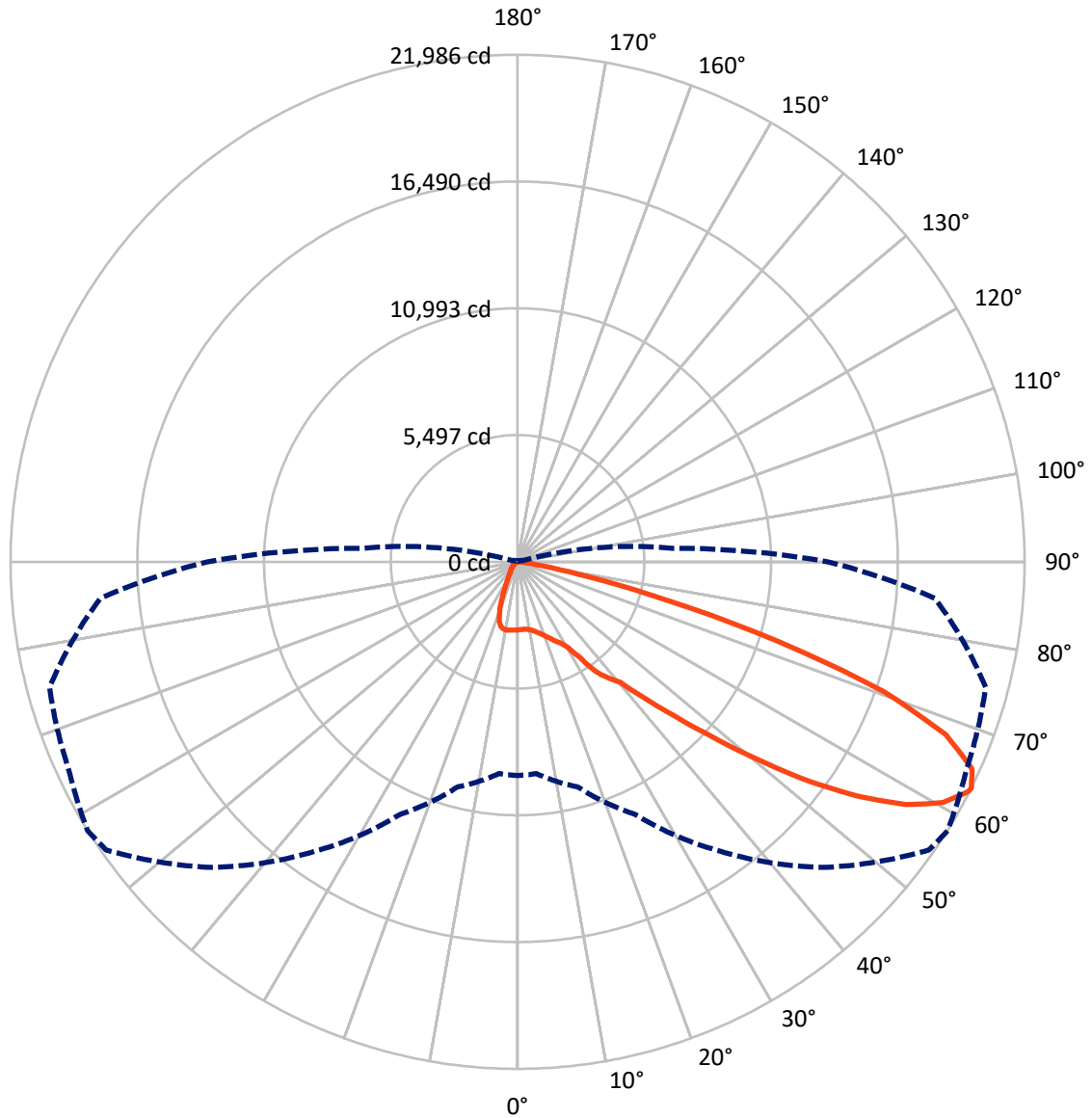
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P647518
CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P647518
 CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

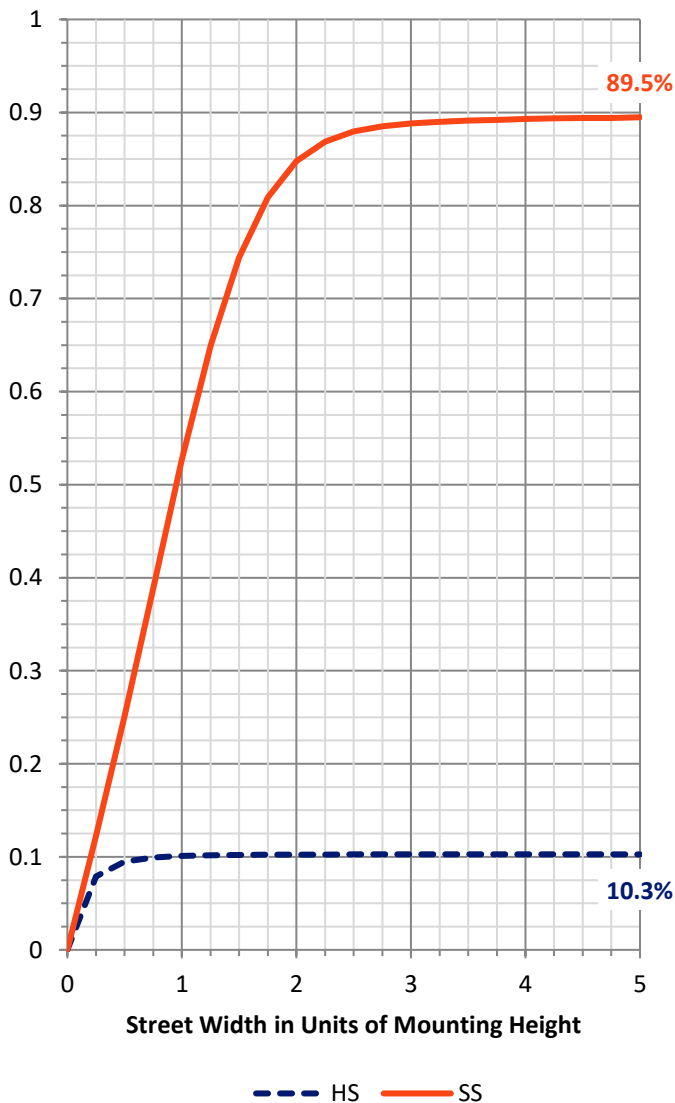
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2730.5	0.0	2730.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23640.2	0.0	23640.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	26370.7	0.0	26370.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.0
10°-20°	752.7	2.9
20°-30°	1306.4	5.0
30°-40°	2400.7	9.1
40°-50°	4519.3	17.1
50°-60°	7729.9	29.3
60°-70°	7401.4	28.1
70°-80°	1887.4	7.2
80°-90°	96.5	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°	26370.7	100.0
0°-180°	26370.7	100.0

Coefficient of Utilization



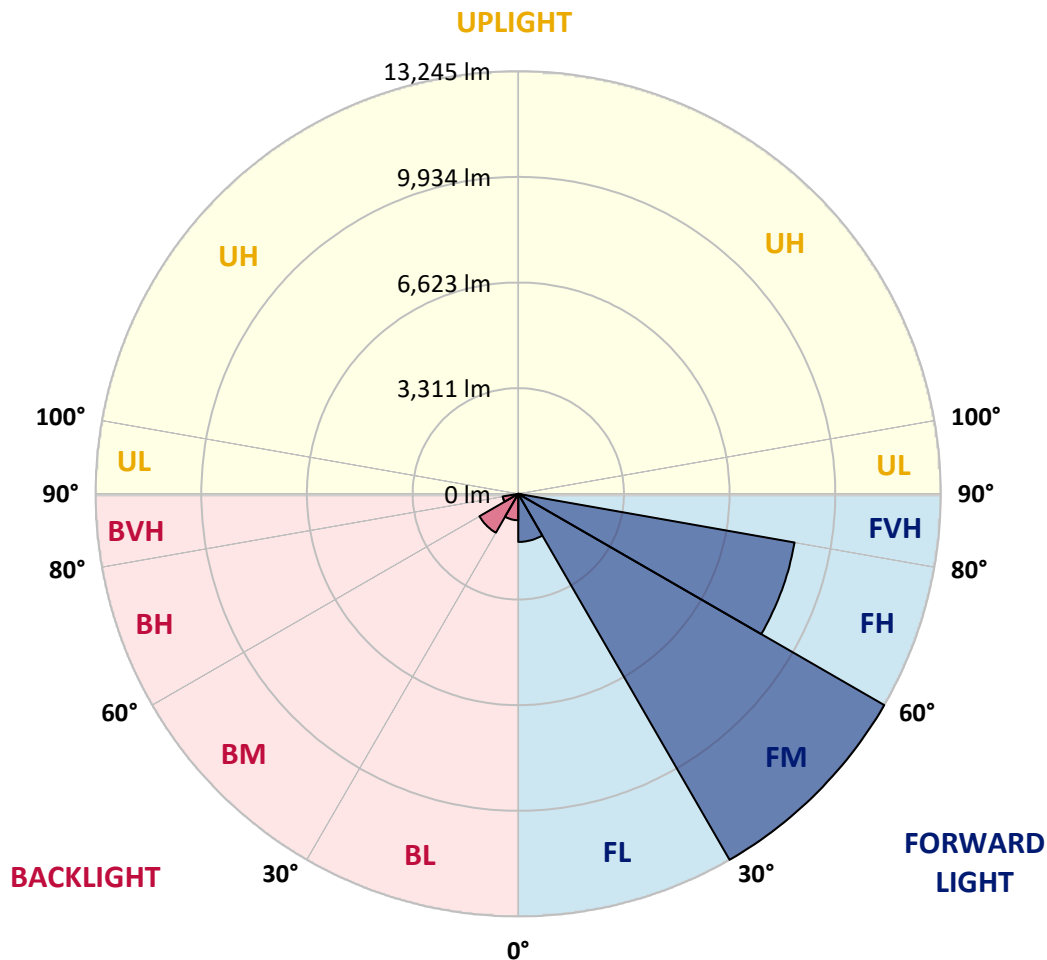
REPORT NUMBER: P647518
 CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.5	5.7			
FM (30°-60°)	13245.5	50.2			
FH (60°-80°)	8794.5	33.3			G4/12000
FVH (80°-90°)	92.8	0.4			G1/100
BL (0°-30°)	828.1	3.1	B2/1000		
BM (30°-60°)	1404.4	5.3	B2/2500		
BH (60°-80°)	494.3	1.9	B1/500		G1/500
BVH (80°-90°)	3.7	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-G4

Type III Short





REPORT NUMBER: P647518

CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3
2.5°	2878.9	2888.8	2898.7	2902.7	2916.6	2930.5	2940.4	2938.4	2954.3	2962.2	2962.2
5°	2763.7	2763.7	2789.5	2813.3	2853.0	2892.7	2930.5	2938.4	2968.2	2996.0	3005.9
7.5°	2666.4	2672.4	2692.2	2735.9	2789.5	2859.0	2934.4	2952.3	3003.9	3065.4	3091.3
10°	2620.7	2624.7	2650.5	2696.2	2763.7	2859.0	2964.2	2998.0	3077.3	3174.7	3210.4
12.5°	2610.8	2616.8	2642.5	2694.2	2771.7	2886.8	3029.7	3065.4	3180.6	3305.7	3359.3
15°	2628.7	2632.7	2658.4	2714.0	2799.5	2936.4	3117.1	3166.7	3303.7	3448.6	3518.2
17.5°	2692.2	2688.3	2706.1	2751.8	2847.1	2998.0	3222.3	3281.9	3442.7	3641.3	3686.9
20°	2962.2	2936.4	2920.5	2880.8	2918.6	3085.3	3349.4	3436.7	3635.3	3837.8	3869.6
22.5°	3543.9	3486.4	3373.2	3218.4	3099.2	3204.4	3502.3	3603.5	3859.6	4058.1	4058.1
25°	4284.5	4211.1	4097.9	3760.4	3468.5	3401.0	3675.0	3802.0	4103.9	4304.4	4238.8
27.5°	5211.7	5154.1	4933.8	4540.6	4093.9	3744.5	3875.5	3992.7	4320.2	4562.5	4425.4
30°	5966.1	5938.4	5757.7	5406.2	4913.9	4403.6	4248.8	4326.2	4608.1	4888.0	4747.1
32.5°	6603.4	6603.4	6418.8	6091.2	5630.6	5177.9	4882.1	4937.7	5207.7	5531.3	5269.3
35°	7304.3	7280.5	7131.6	6819.9	6303.7	5904.6	5783.5	5859.0	6103.2	6343.4	5698.1
37.5°	8040.9	8033.0	7878.1	7576.3	7155.4	6653.1	6369.2	6389.0	6514.1	6661.1	6200.4
40°	8841.0	8852.9	8650.4	8463.8	8066.7	7552.5	7008.5	6883.4	7000.6	7415.5	7127.6
42.5°	9786.1	9758.3	9670.9	9416.7	9097.1	8789.4	8136.2	8090.5	8193.8	8638.5	8326.8
45°	10884.0	10923.7	10772.8	10631.8	10417.4	10161.3	9615.3	9535.9	9649.1	10340.0	9897.3
47.5°	11983.9	11946.2	12043.5	12017.6	12132.8	11942.2	11459.8	11297.0	11569.0	12224.1	11572.9
50°	12821.8	12863.4	13065.9	13361.7	13856.1	13963.3	13500.7	13445.1	13566.3	13987.2	13071.9
52.5°	13365.7	13504.7	13822.4	14582.8	15474.3	16167.1	15815.7	15786.0	15736.3	15849.5	14505.4
55°	13721.1	13862.1	14277.1	15396.8	16931.5	18057.2	18075.2	17948.1	17620.5	17539.0	15845.5
57.5°	13502.8	13530.6	14122.2	15619.2	17739.6	19405.3	19989.1	19862.0	19256.5	18948.7	17028.8
60°	12136.8	12194.4	13018.3	14777.4	17388.2	19846.1	21257.7	21200.1	20537.0	20189.6	17950.0
62.5°	9716.6	9883.3	10731.1	12692.7	15754.2	19103.6	21771.9	21934.7	21418.6	20940.1	18239.9
63°	9271.8	9218.3	10113.6	12085.1	15321.4	18736.3	21779.9	21986.4	21458.3	21011.6	18160.5
65°	6863.5	7024.4	7606.1	9530.0	12750.3	17026.8	21289.5	21654.8	21311.3	20695.9	17281.0
67.5°	3853.7	3845.7	4489.0	6236.1	8924.4	13355.8	19250.5	20022.8	19951.3	18571.5	14324.7
70°	1886.2	1915.9	2180.0	3232.2	5175.9	9214.3	15996.4	16830.3	16856.1	14586.7	9905.2
72.5°	853.7	867.6	1056.3	1574.5	2660.5	4906.0	11023.0	11819.2	11672.2	9295.7	5469.8
75°	450.7	480.4	581.7	792.2	1282.6	2023.1	5995.9	6766.3	6458.5	4246.8	2013.2
77.5°	333.6	343.5	395.1	504.3	686.9	788.2	2587.0	3077.3	2882.8	1536.7	667.1
80°	244.2	252.1	293.9	357.4	432.8	401.1	974.8	1117.8	1002.6	522.2	204.5
82.5°	148.9	150.9	214.4	266.1	272.0	224.3	321.7	345.5	361.4	293.9	111.2
85°	53.6	67.5	144.9	192.6	160.8	113.1	135.0	148.9	162.8	186.7	65.5
87.5°	6.0	7.9	69.5	93.3	45.6	41.7	49.6	55.6	59.6	69.5	31.8
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: P647518
 CATALOG NUMBER: GALN-SA6D-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3	2952.3
2.5°	2970.2	2978.1	2972.2	2962.2	2960.2	2954.3	2942.4	2942.4	2942.4	2946.4	2942.4
5°	3013.8	3019.8	3005.9	2986.0	2964.2	2936.4	2906.7	2888.8	2886.8	2882.8	2872.9
7.5°	3097.2	3105.1	3073.4	3025.7	2966.2	2898.7	2835.2	2775.6	2747.8	2725.9	2725.9
10°	3218.4	3226.3	3162.8	3077.3	2958.3	2821.2	2670.3	2533.4	2426.2	2376.6	2364.6
12.5°	3363.3	3367.2	3262.1	3113.1	2916.6	2652.5	2330.8	2031.1	1822.6	1727.3	1717.4
15°	3522.1	3494.3	3355.3	3127.0	2797.4	2305.1	1749.1	1381.8	1165.4	1101.9	1125.7
17.5°	3682.9	3631.3	3426.8	3105.1	2529.4	1749.1	1175.4	943.0	875.6	857.7	857.7
20°	3833.8	3762.3	3478.4	3009.9	2064.8	1205.1	871.6	816.0	804.1	792.2	794.2
22.5°	3984.7	3875.5	3524.1	2797.4	1538.7	861.7	780.3	762.4	746.5	730.6	728.7
25°	4131.7	3980.8	3542.0	2404.4	1048.3	740.6	712.8	689.0	657.2	639.3	635.3
27.5°	4284.5	4107.8	3530.1	1907.9	764.4	663.1	635.3	601.6	563.8	532.1	532.1
30°	4578.4	4350.0	3488.3	1371.9	643.2	583.7	547.9	494.4	452.7	420.9	418.9
32.5°	4979.4	4665.7	3345.4	964.9	571.8	514.2	460.6	401.1	357.4	333.6	333.6
35°	5336.8	4983.4	3077.3	710.8	514.2	446.7	381.2	323.6	289.9	274.0	268.0
37.5°	5880.8	5448.0	2708.1	577.8	458.6	387.1	319.6	266.1	238.3	226.4	226.4
40°	6696.8	6015.8	2255.4	506.3	405.0	329.6	266.1	224.3	202.5	188.6	188.6
42.5°	7709.3	6710.7	1796.8	454.7	355.4	283.9	222.4	190.6	170.8	160.8	158.9
45°	8984.0	7443.3	1383.8	407.0	315.7	242.2	188.6	160.8	140.9	135.0	137.0
47.5°	10314.1	8088.5	1072.1	365.3	274.0	204.5	160.8	139.0	125.0	117.1	117.1
50°	11449.8	8533.3	814.0	317.7	242.2	172.7	140.9	125.0	113.1	109.2	107.2
52.5°	12398.9	8662.3	623.4	276.0	212.4	148.9	125.0	113.1	103.3	97.2	97.2
55°	13206.9	8549.2	488.4	232.3	178.7	129.0	111.2	101.2	89.3	83.4	81.4
57.5°	13679.4	8185.8	373.3	192.6	144.9	107.2	97.2	85.3	71.5	61.5	61.5
60°	13917.7	7657.7	285.9	158.9	111.2	85.3	79.4	63.5	49.6	41.7	39.7
62.5°	13631.8	6956.9	216.4	125.0	83.4	63.5	53.6	45.6	31.8	23.8	23.8
63°	13455.1	6754.3	208.4	119.1	77.4	59.6	49.6	41.7	27.8	21.8	19.9
65°	12265.9	5870.9	170.8	95.3	61.5	41.7	33.7	29.8	19.9	9.9	7.9
67.5°	9740.4	4491.0	135.0	71.5	43.7	29.8	19.9	17.9	6.0	0.0	0.0
70°	6585.6	2900.7	105.2	51.6	29.8	17.9	9.9	7.9	2.0	0.0	0.0
72.5°	3434.8	1487.1	81.4	37.7	17.9	11.9	6.0	2.0	0.0	0.0	0.0
75°	1215.1	506.3	59.6	23.8	11.9	6.0	2.0	0.0	0.0	0.0	0.0
77.5°	367.3	188.6	37.7	17.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
80°	129.0	69.5	21.8	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.5	33.7	13.9	9.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.7	21.8	11.9	9.9	6.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	15.9	11.9	9.9	7.9	4.0	2.0	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	0.0

(END OF REPORT)