

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: P530973

Luminaire Tested: **GALN-SA6B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16852 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

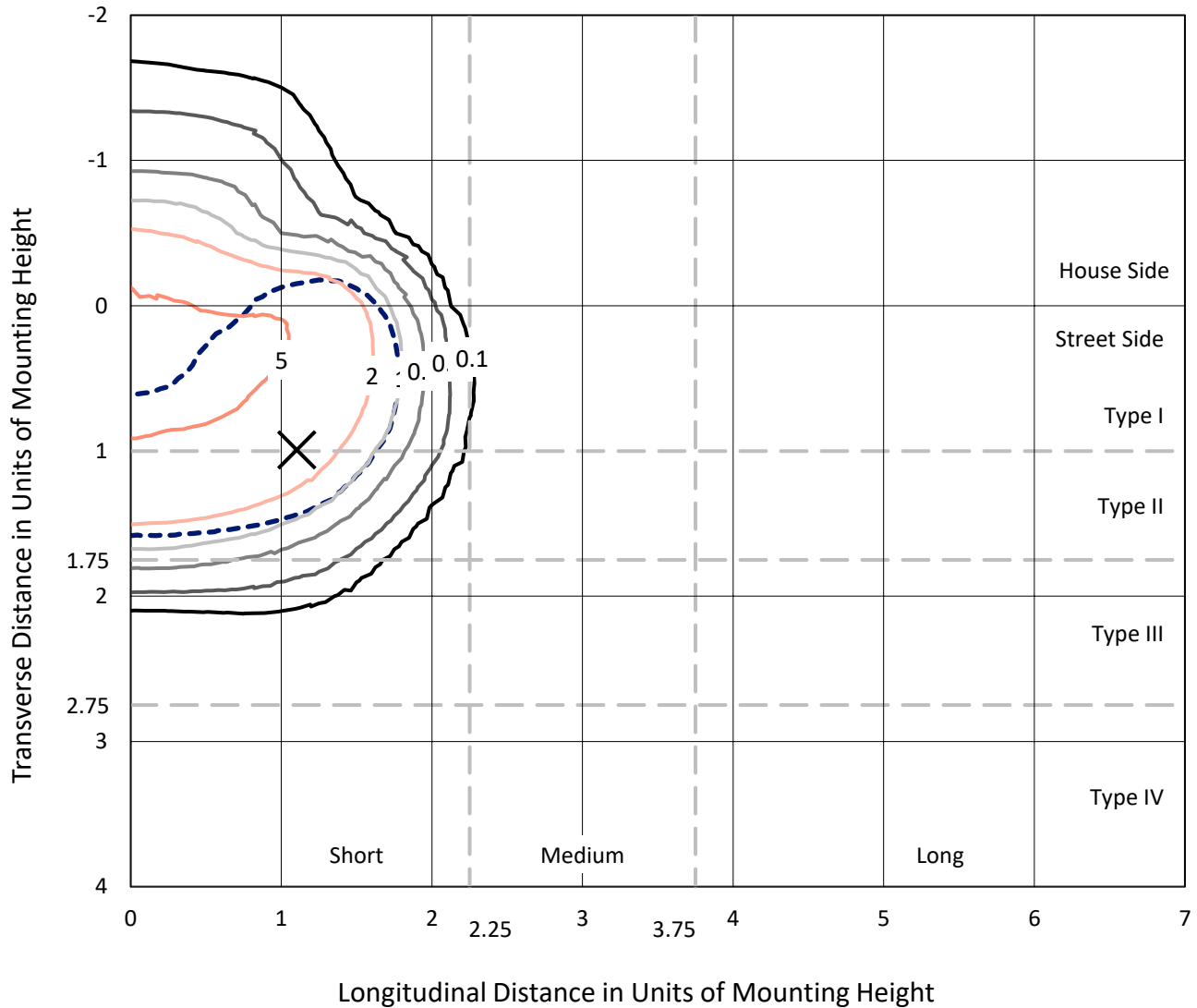
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

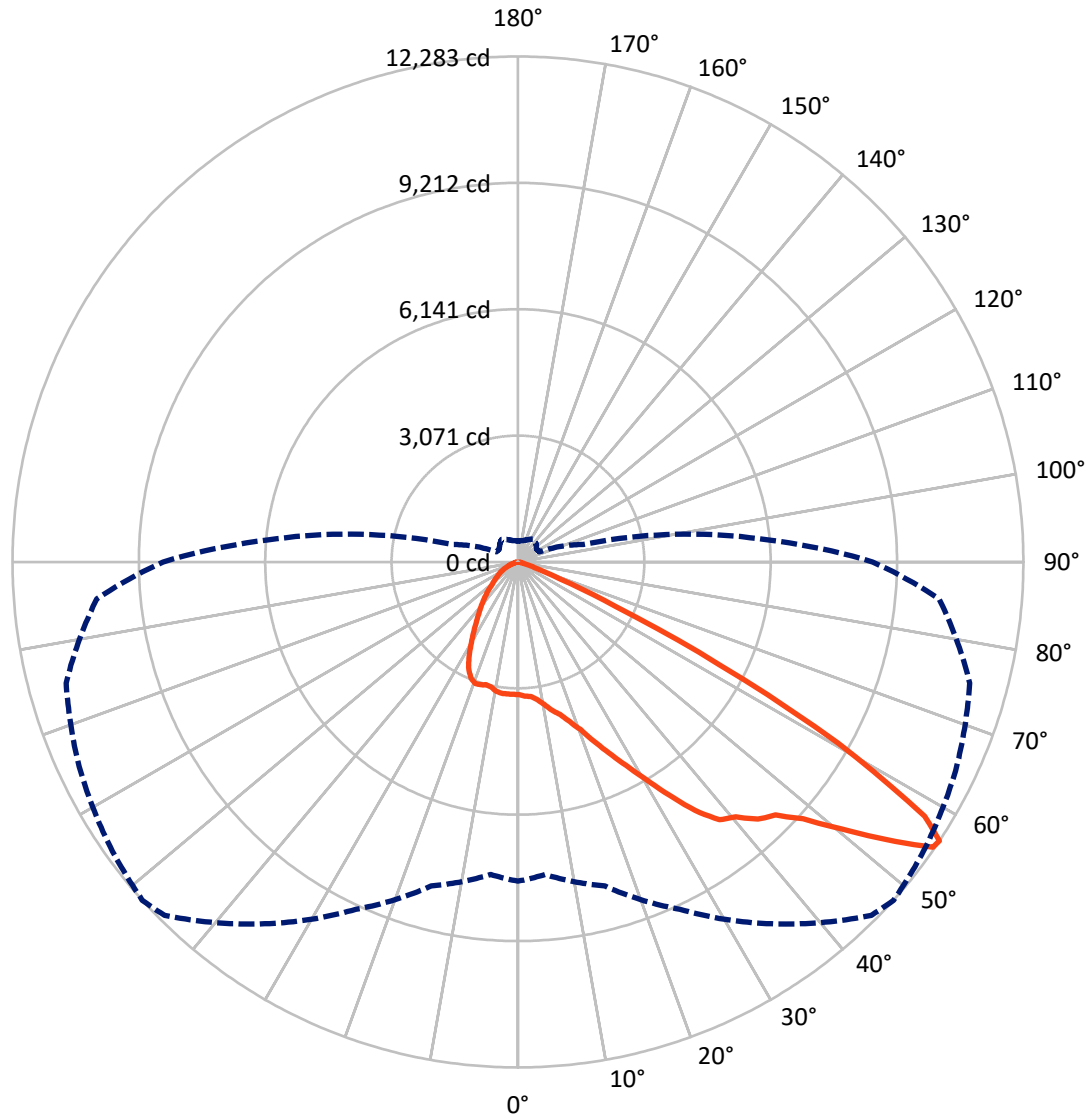
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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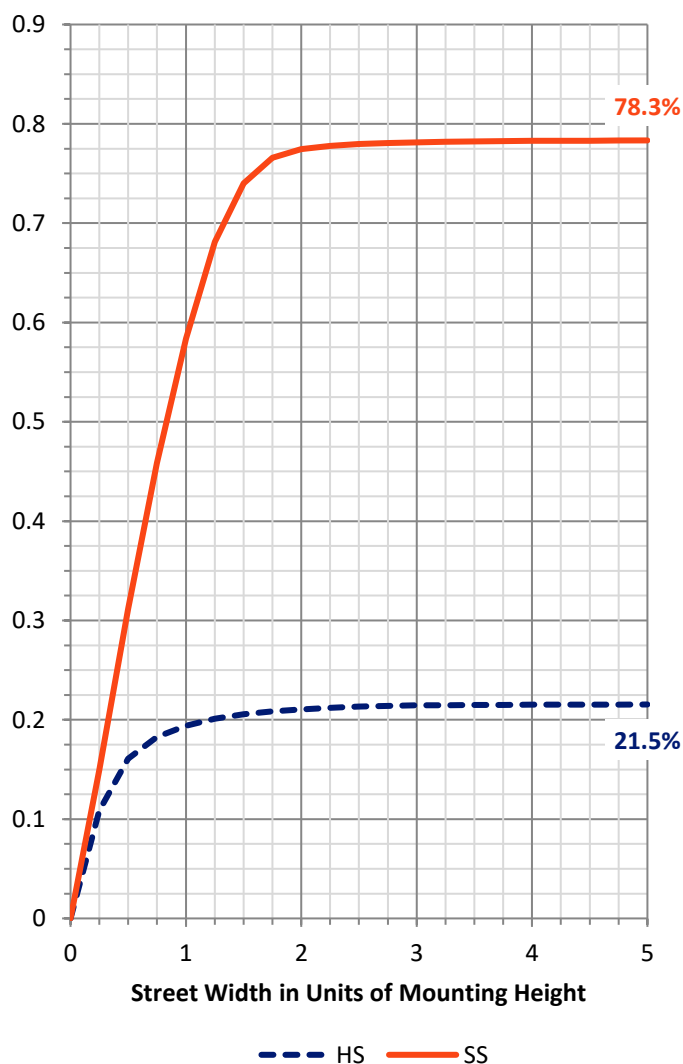
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.0	0.0	3665.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13187.0	0.0	13187.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	16852.0	0.0	16852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	1.9
10°-20°	1002.0	5.9
20°-30°	1817.5	10.8
30°-40°	2854.9	16.9
40°-50°	4164.7	24.7
50°-60°	5017.7	29.8
60°-70°	1469.1	8.7
70°-80°	186.4	1.1
80°-90°	26.1	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°	16852.0	100.0
0°-180°	16852.0	100.0

Coefficient of Utilization

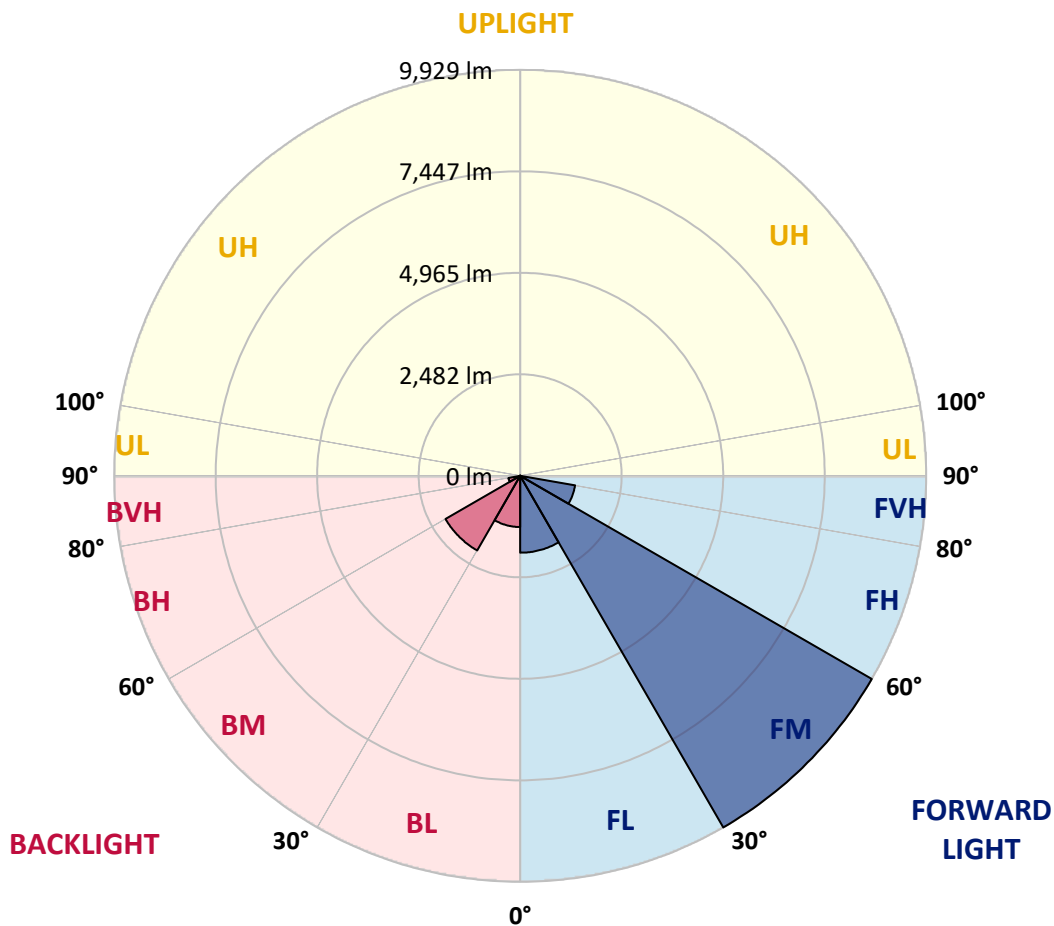


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.3	11.2			
FM (30°-60°)	9929.2	58.9			
FH (60°-80°)	1364.3	8.1			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1252.7	7.4	B3/2500		
BM (30°-60°)	2108.1	12.5	B2/2500		
BH (60°-80°)	291.2	1.7	B1/500		G1/500
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7
2.5°	3277.0	3261.7	3261.7	3237.1	3264.8	3252.5	3261.7	3231.0	3261.7	3215.7	3252.5
5°	3292.4	3295.4	3283.2	3298.5	3298.5	3316.9	3286.2	3313.9	3329.2	3295.4	3280.1
7.5°	3372.2	3378.3	3375.2	3363.0	3387.5	3384.4	3381.4	3359.9	3366.0	3353.7	3335.3
10°	3528.6	3525.6	3540.9	3510.2	3491.8	3513.3	3519.4	3485.7	3461.1	3451.9	3393.6
12.5°	3755.7	3718.9	3697.4	3666.7	3675.9	3645.2	3700.5	3642.2	3629.9	3574.7	3516.4
15°	3939.8	3933.7	3936.7	3887.6	3832.4	3844.7	3844.7	3814.0	3795.6	3728.1	3645.2
17.5°	4317.2	4188.3	4216.0	4154.6	4108.6	4105.5	4077.9	4084.0	4034.9	3893.8	3768.0
20°	4611.8	4556.6	4513.6	4409.3	4338.7	4360.2	4347.9	4317.2	4301.9	4117.8	3939.8
22.5°	4875.7	4894.1	4823.5	4795.9	4697.7	4706.9	4731.5	4703.8	4587.2	4397.0	4133.1
25°	5246.9	5225.5	5130.3	5096.6	5004.5	5038.3	5133.4	5111.9	5038.3	4694.6	4283.5
27.5°	5685.7	5612.1	5630.5	5477.1	5388.1	5483.2	5596.7	5704.1	5495.5	5044.4	4461.4
30°	5995.6	5918.9	5912.8	5906.6	5885.2	5995.6	6127.6	6225.8	6057.0	5394.2	4756.0
32.5°	6149.1	6167.5	6219.6	6201.2	6388.4	6615.4	6753.5	6894.7	6682.9	5964.9	5145.7
35°	6557.1	6440.5	6557.1	6569.4	6762.7	7244.5	7419.4	7756.9	7704.7	6771.9	5621.3
37.5°	6796.5	6787.3	6802.6	6919.2	7106.4	7701.7	7950.2	8211.0	8112.8	7256.7	6213.5
40°	7192.3	7216.8	7213.8	7302.8	7508.3	8045.3	8146.6	8358.3	8367.5	7928.7	7084.9
42.5°	7827.5	7729.3	7664.8	7756.9	8045.3	8342.9	8545.5	8502.5	8806.3	8744.9	8204.9
45°	8398.2	8456.5	8361.4	8514.8	8619.1	8778.7	8772.5	8864.6	9251.2	9542.7	9048.7
47.5°	8932.1	8968.9	9014.9	9119.2	9346.3	9370.9	9318.7	9278.8	9812.7	10113.4	9702.2
50°	9251.2	9284.9	9499.7	9686.9	10110.3	10165.6	10196.3	10095.0	10457.1	10490.8	10319.0
52.5°	9165.3	9202.1	9502.8	10119.5	10794.6	11300.9	11208.8	11037.0	11015.5	11147.5	10889.7
55°	8404.3	8370.6	8784.8	9745.2	11009.4	12224.5	12236.7	12055.7	11709.0	11620.0	10803.8
56°	7756.9	7624.9	8152.7	9312.6	10733.2	12144.7	12282.8	12089.4	11764.2	11365.3	10273.0
57.5°	6354.6	6480.4	7005.1	7965.5	9779.0	11570.9	11650.7	11604.6	11359.2	10690.3	9039.5
60°	3504.1	3725.0	4188.3	5363.5	6962.2	8879.9	8944.4	9318.7	9364.7	8186.5	6219.6
62.5°	1488.2	1463.6	1945.4	2810.6	3964.4	5360.5	5480.1	5863.7	5934.3	4719.2	3120.6
65°	604.5	638.2	880.6	1414.5	2095.7	2442.4	2611.2	2737.0	2970.2	1948.4	1150.6
67.5°	398.9	395.8	518.6	807.0	1129.2	1089.3	1089.3	1150.6	1064.7	794.7	497.1
70°	285.4	294.6	371.3	558.4	702.7	521.6	500.1	478.7	543.1	524.7	402.0
72.5°	187.2	199.4	248.5	334.5	365.1	285.4	285.4	343.7	448.0	423.4	328.3
75°	122.7	125.8	153.4	193.3	181.0	147.3	162.6	230.1	325.2	313.0	233.2
77.5°	82.8	85.9	104.3	125.8	101.3	82.8	89.0	116.6	159.6	159.6	122.7
80°	30.7	33.8	43.0	39.9	46.0	58.3	64.4	79.8	95.1	95.1	82.8
82.5°	0.0	3.1	9.2	21.5	33.8	46.0	52.2	61.4	70.6	79.8	76.7
85°	0.0	3.1	9.2	15.3	24.5	27.6	30.7	21.5	18.4	18.4	15.3
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.1	3.1	3.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7	3218.7
2.5°	3218.7	3215.7	3215.7	3206.5	3224.9	3215.7	3221.8	3218.7	3178.9	3209.5	3188.1
5°	3252.5	3274.0	3240.2	3234.1	3209.5	3218.7	3218.7	3188.1	3215.7	3212.6	3206.5
7.5°	3338.4	3301.6	3264.8	3227.9	3221.8	3212.6	3178.9	3166.6	3188.1	3163.5	3200.3
10°	3375.2	3381.4	3326.1	3277.0	3231.0	3166.6	3120.6	3092.9	3059.2	3096.0	3117.5
12.5°	3544.0	3482.6	3387.5	3310.8	3154.3	3089.9	3043.8	3031.6	3089.9	3102.1	3080.7
15°	3602.3	3593.1	3470.3	3298.5	3135.9	3059.2	3068.4	3043.8	3050.0	3019.3	3025.4
17.5°	3722.0	3617.6	3473.4	3258.6	3132.8	3114.4	3059.2	2961.0	2905.8	2881.2	2902.7
20°	3853.9	3752.6	3544.0	3274.0	3160.4	3111.3	2930.3	2810.6	2697.1	2635.7	2638.8
22.5°	3970.5	3844.7	3513.3	3280.1	3185.0	2982.5	2764.6	2528.4	2387.2	2292.1	2295.2
25°	4111.6	3933.7	3525.6	3292.4	3120.6	2776.9	2463.9	2233.8	2065.0	2000.6	2022.1
27.5°	4191.4	3988.9	3593.1	3320.0	2951.8	2485.4	2147.9	1933.1	1834.9	1804.2	1801.1
30°	4430.8	4111.6	3675.9	3264.8	2669.5	2172.4	1859.4	1727.5	1632.4	1604.8	1610.9
32.5°	4786.7	4335.6	3783.3	3120.6	2381.1	1893.2	1672.3	1574.1	1485.1	1432.9	1426.8
35°	5084.3	4719.2	3896.9	2896.6	2046.6	1678.4	1540.3	1417.6	1282.6	1224.3	1208.9
37.5°	5652.0	5151.8	3872.3	2559.0	1727.5	1518.9	1399.2	1248.8	1132.2	1052.5	1043.3
40°	6406.8	5658.1	3752.6	2147.9	1491.2	1377.7	1248.8	1104.6	960.4	892.9	886.8
42.5°	7324.2	6277.9	3534.8	1730.6	1255.0	1236.6	1120.0	954.3	825.4	776.3	779.4
45°	8069.9	6808.8	3313.9	1390.0	1080.1	1098.5	997.2	840.7	751.8	711.9	711.9
47.5°	8732.6	7167.8	3074.5	1147.6	917.4	960.4	871.4	779.4	702.7	672.0	665.8
50°	9370.9	7532.9	2835.2	929.7	782.4	825.4	816.2	742.5	681.2	644.4	647.4
52.5°	9769.7	7591.2	2531.4	761.0	684.3	733.3	764.0	696.5	629.0	607.5	601.4
55°	9281.9	6839.4	1963.8	626.0	579.9	644.4	702.7	626.0	573.8	537.0	533.9
56°	8625.2	6115.3	1641.6	576.9	549.2	619.8	681.2	598.3	540.0	518.6	503.2
57.5°	7302.8	5004.5	1212.0	512.4	509.4	576.9	647.4	570.7	503.2	484.8	484.8
60°	4553.5	2816.8	733.3	429.6	441.8	512.4	583.0	509.4	448.0	448.0	457.2
62.5°	2074.2	1172.1	444.9	365.1	380.5	441.8	518.6	460.3	426.5	460.3	466.4
65°	705.7	506.3	322.2	291.5	300.7	365.1	444.9	466.4	463.3	484.8	497.1
67.5°	395.8	325.2	270.0	242.4	236.3	270.0	365.1	466.4	448.0	438.8	444.9
70°	334.5	276.2	239.3	214.8	205.6	217.9	282.3	352.9	316.0	306.8	300.7
72.5°	270.0	230.1	208.7	193.3	165.7	141.1	128.9	135.0	150.4	159.6	174.9
75°	190.2	174.9	174.9	156.5	119.7	89.0	70.6	58.3	39.9	27.6	30.7
77.5°	107.4	107.4	110.5	95.1	76.7	58.3	43.0	30.7	15.3	6.1	3.1
80°	73.6	79.8	85.9	76.7	64.4	52.2	36.8	21.5	9.2	0.0	0.0
82.5°	73.6	82.8	89.0	76.7	64.4	49.1	36.8	21.5	9.2	3.1	0.0
85°	15.3	18.4	21.5	24.5	36.8	36.8	27.6	18.4	9.2	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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)