

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: P531674

Luminaire Tested: **GALN-SA7A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531674
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-SA7A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 23408 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

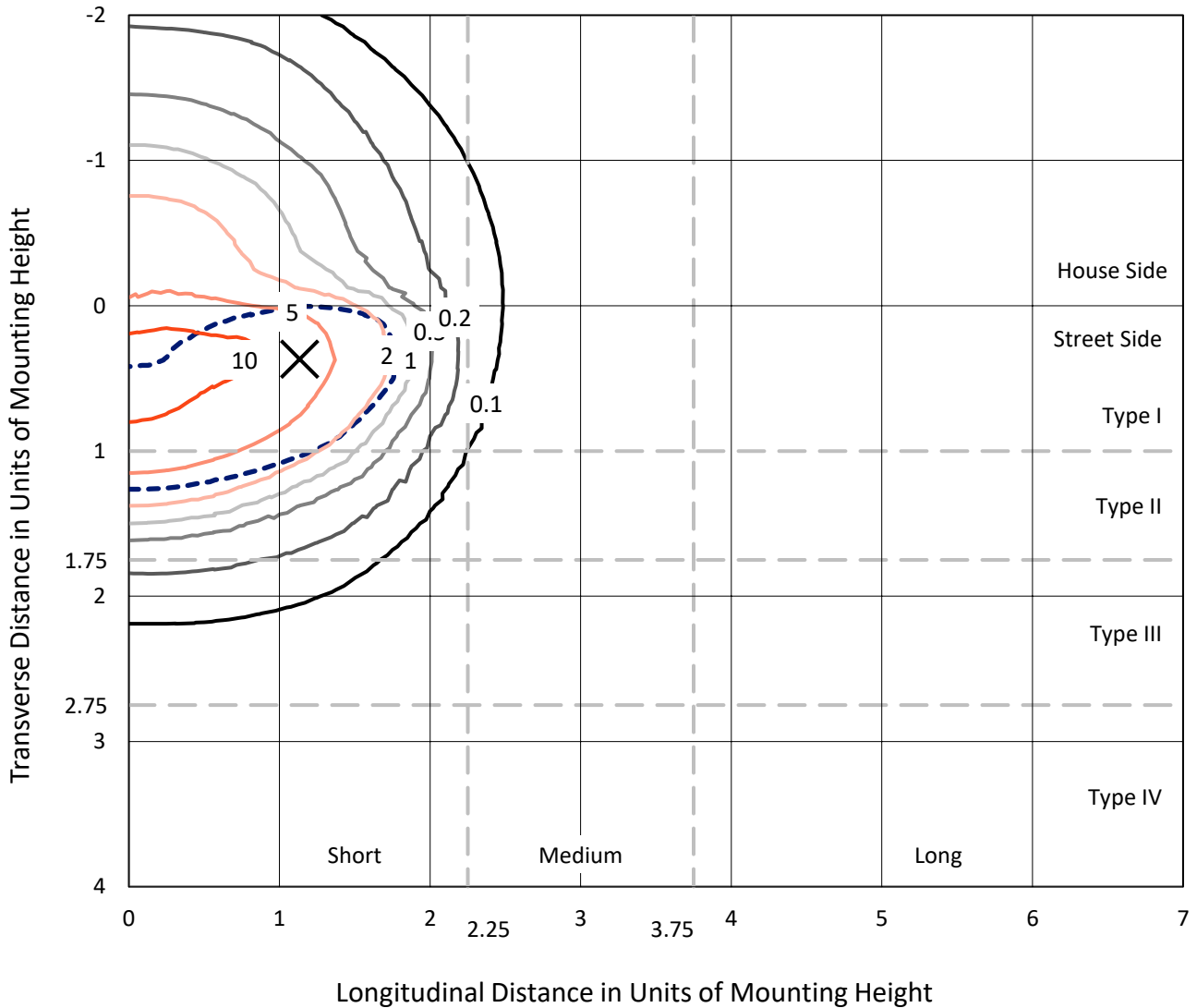
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

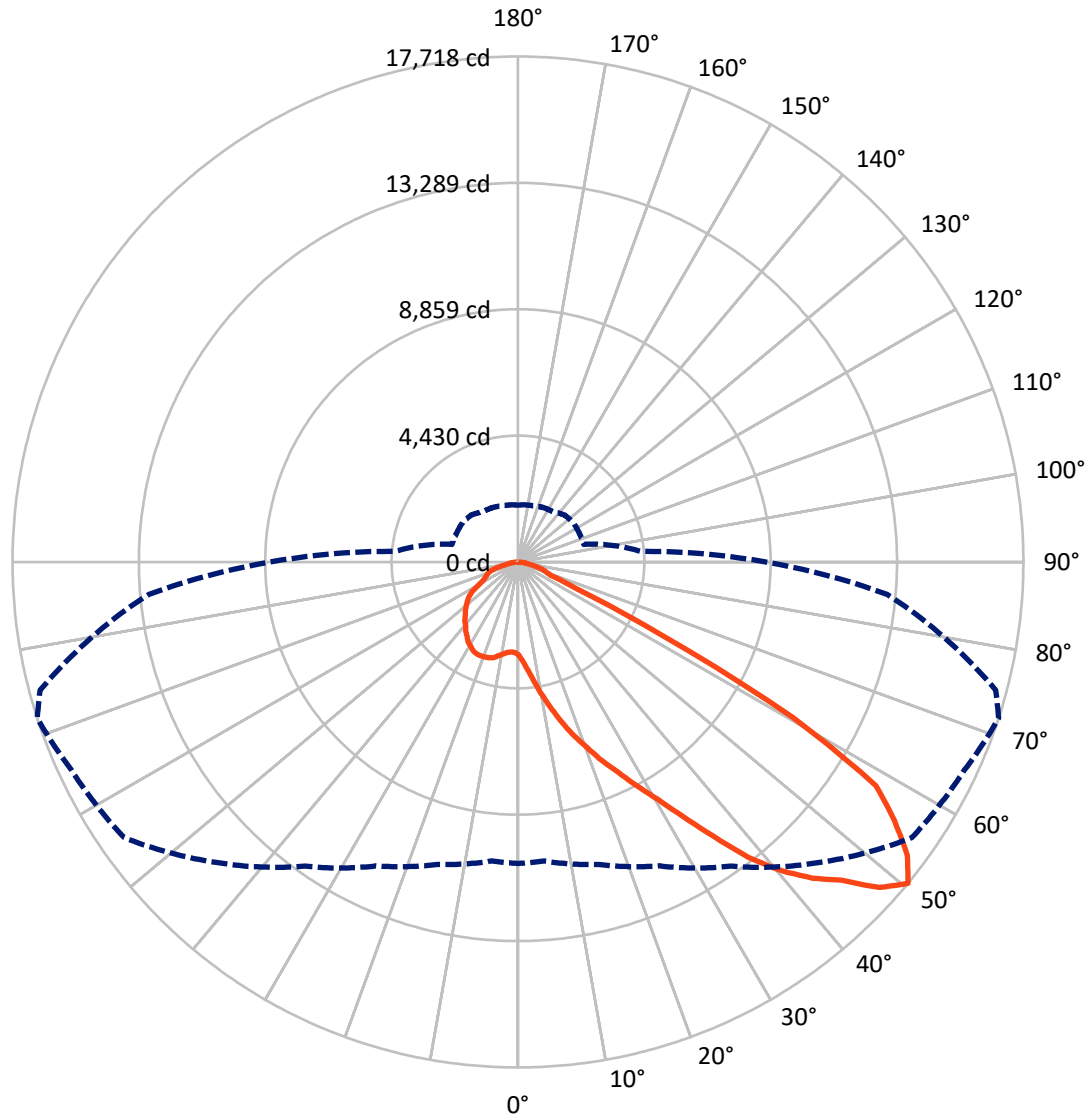
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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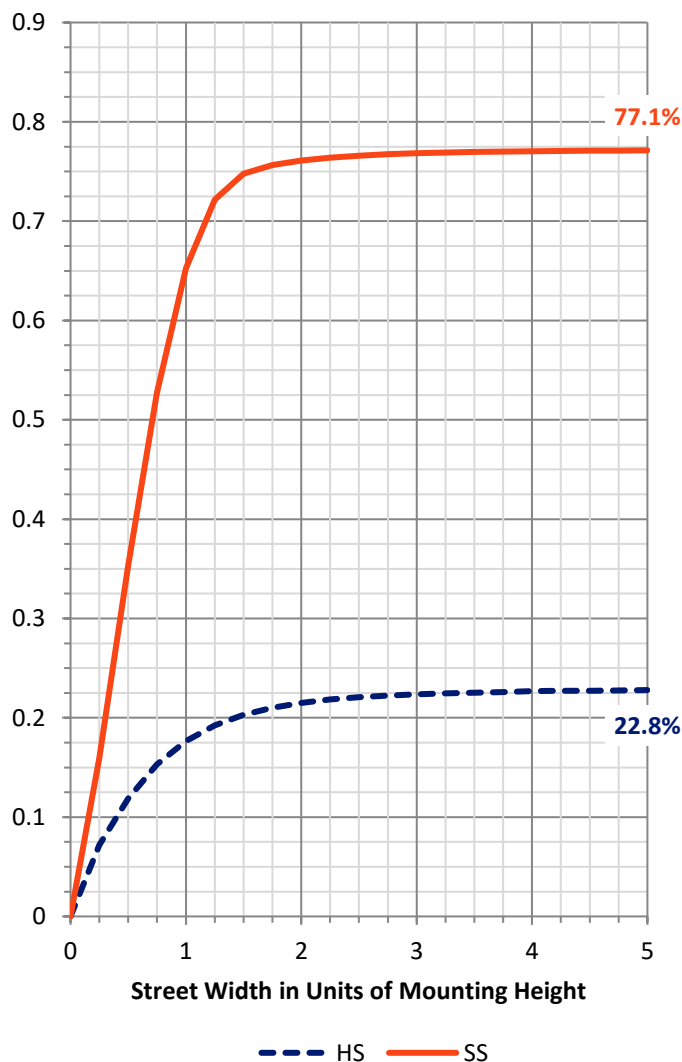
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5362.9	0.0	5362.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18045.1	0.0	18045.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	23408.0	0.0	23408.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	1.6
10°-20°	1432.9	6.1
20°-30°	2778.3	11.9
30°-40°	4602.6	19.7
40°-50°	6440.0	27.5
50°-60°	5433.0	23.2
60°-70°	1656.0	7.1
70°-80°	581.0	2.5
80°-90°	101.0	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°	23408.0	100.0
0°-180°	23408.0	100.0



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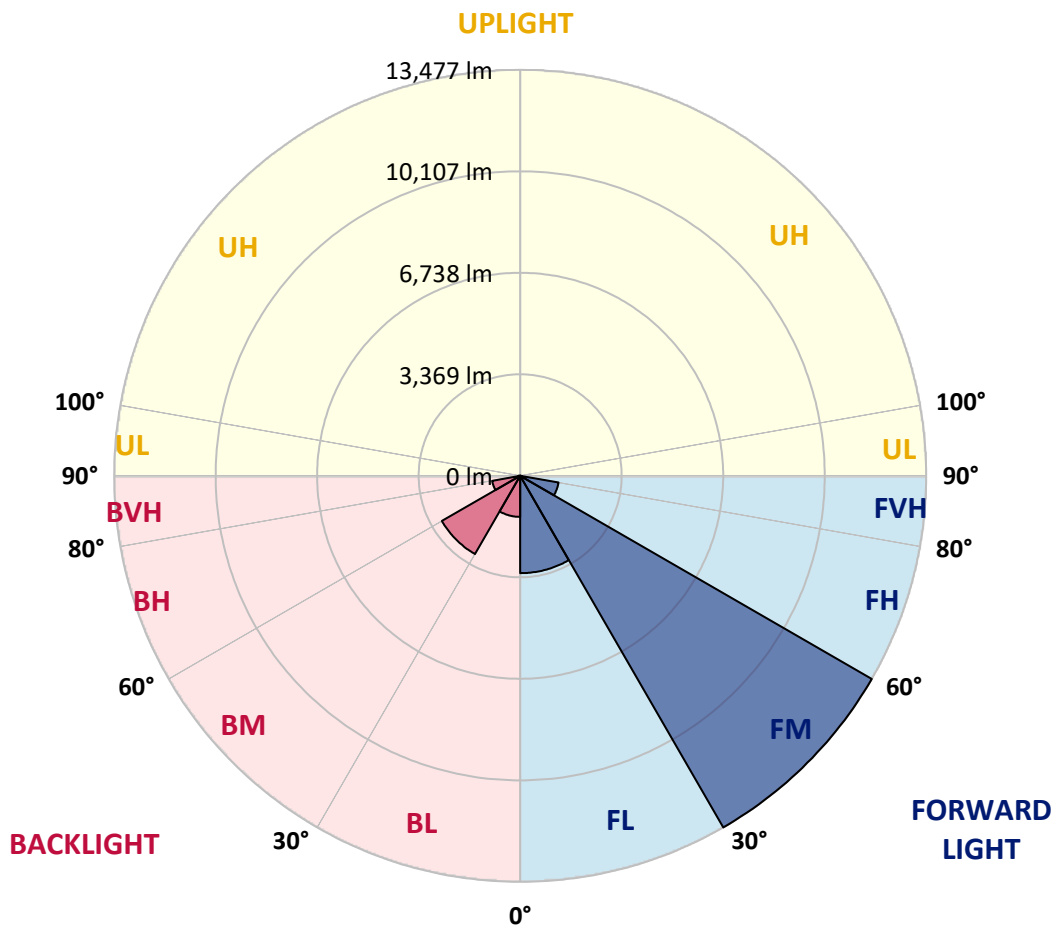
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3231.1	13.8			
FM (30°-60°)	13476.6	57.6			
FH (60°-80°)	1292.1	5.5			G1/1800
FVH (80°-90°)	45.2	0.2			G1/100
BL (0°-30°)	1363.3	5.8	B3/2500		
BM (30°-60°)	2999.0	12.8	B3/5000		
BH (60°-80°)	944.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	55.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6
2.5°	4191.3	4165.2	4087.0	4060.9	3968.2	3800.2	3742.3	3571.4	3499.0	3432.4	3354.2
5°	5300.6	5179.0	5170.3	5022.6	4808.2	4683.7	4312.9	4063.8	3835.0	3719.1	3504.8
7.5°	6007.4	6010.3	6010.3	5888.6	5717.7	5402.0	5068.9	4620.0	4275.3	4104.4	3739.4
10°	6679.4	6621.5	6589.6	6578.0	6462.2	6155.1	5798.8	5242.7	4770.6	4570.7	3916.1
12.5°	7154.4	7105.2	7177.6	7139.9	7055.9	6856.1	6520.1	5885.7	5294.9	5025.5	4200.0
15°	7380.4	7415.1	7473.0	7577.3	7539.7	7464.4	7093.6	6546.2	5859.7	5555.5	4452.0
17.5°	7727.9	7632.3	7701.9	7832.2	7936.5	7901.7	7690.3	7024.1	6418.7	6045.1	4790.9
20°	7971.2	7916.2	7951.0	8101.6	8179.8	8376.8	8266.7	7649.7	6954.6	6560.6	5190.6
22.5°	8666.4	8585.3	8472.3	8495.5	8524.5	8663.5	8689.6	8336.2	7577.3	7160.2	5570.0
25°	9523.8	9448.5	9315.2	9179.1	9095.1	9069.0	9158.8	8875.0	8174.0	7742.4	5978.4
27.5°	10468.0	10340.6	10256.6	9975.6	9749.7	9715.0	9671.5	9518.0	8880.8	8414.4	6439.0
30°	11386.2	11284.9	11171.9	10722.9	10488.3	10450.7	10236.3	10279.8	9648.3	9129.9	6960.4
32.5°	12081.4	12090.1	11832.3	11493.4	11273.3	11073.4	10995.2	11119.8	10633.2	10216.1	7542.6
35°	12643.3	12669.4	12423.2	12116.2	11878.7	12017.7	11982.9	12040.9	11809.1	11299.4	8220.3
37.5°	13190.8	13060.4	12796.9	12649.1	12524.6	12753.4	13048.9	13098.1	13141.5	12542.0	9008.2
40°	13280.6	13292.2	13138.6	13242.9	13086.5	13431.2	14117.7	14054.0	14230.6	13706.4	9862.7
42.5°	13153.1	13179.2	13240.0	13387.7	13764.3	14178.5	15198.1	14937.4	15151.7	14685.4	10694.0
45°	12944.6	12837.4	12912.7	13474.6	14126.4	15047.5	16185.8	15983.0	15913.5	15522.5	11684.6
47.5°	11948.2	12058.2	12292.9	12985.1	13964.2	15198.1	16886.8	16840.4	17049.0	16773.8	12585.4
50°	10566.5	10523.1	10974.9	11754.1	13017.0	14902.6	16849.1	17269.1	17718.1	17335.7	12988.0
52.5°	7913.3	8145.0	8533.2	9500.6	11302.2	13292.2	16026.5	16727.4	17092.4	17011.3	12663.6
55°	5002.3	5071.8	5306.4	6456.4	8078.4	10667.9	13738.2	15363.2	16014.9	16319.0	12365.3
57.5°	2430.2	2299.8	2586.6	3510.6	4666.3	7174.7	10595.5	13382.0	14798.4	15348.7	11716.5
60°	1268.7	1317.9	1430.9	1761.1	2412.8	3724.9	6604.1	8918.4	11082.1	11927.9	8880.8
62.5°	1051.4	1068.8	1144.1	1309.2	1604.7	2143.4	3371.6	4347.7	5651.1	6412.9	5051.5
65°	892.1	900.8	981.9	1092.0	1280.3	1509.1	1735.0	1816.1	2198.5	2256.4	1795.8
67.5°	744.4	753.1	840.0	944.3	1065.9	1126.7	1184.7	1178.9	1222.3	1205.0	1202.1
70°	573.5	582.2	672.0	782.1	842.9	808.1	987.7	1028.3	1045.6	1060.1	1083.3
72.5°	414.2	431.6	501.1	579.3	547.4	628.5	813.9	874.8	897.9	906.6	935.6
75°	301.2	307.0	324.4	301.2	347.6	437.4	573.5	648.8	677.8	686.5	729.9
77.5°	133.2	136.1	139.0	173.8	223.0	272.3	341.8	402.6	443.2	454.8	466.3
80°	69.5	72.4	89.8	118.8	159.3	199.9	249.1	283.9	309.9	312.8	324.4
82.5°	43.4	46.3	63.7	84.0	113.0	147.7	182.5	211.4	231.7	234.6	237.5
85°	20.3	26.1	37.7	52.1	75.3	95.6	98.5	84.0	89.8	92.7	86.9
87.5°	5.8	8.7	11.6	8.7	11.6	11.6	14.5	17.4	17.4	17.4	20.3
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°	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6
2.5°	3310.7	3284.7	3183.3	3145.6	3047.1	3064.5	3012.4	3009.5	2997.9	2995.0	2992.1
5°	3391.8	3310.7	3189.1	3096.4	3041.4	3035.6	2997.9	2997.9	3009.5	3018.2	2997.9
7.5°	3525.1	3432.4	3226.7	3139.8	3090.6	3081.9	3055.8	3035.6	3061.6	3052.9	3029.8
10°	3678.6	3516.4	3299.1	3223.8	3142.7	3122.5	3122.5	3131.1	3087.7	3102.2	3079.0
12.5°	3849.5	3632.2	3391.8	3304.9	3209.4	3197.8	3192.0	3128.2	3151.4	3139.8	3081.9
15°	4066.7	3765.5	3510.6	3362.9	3281.8	3229.6	3154.3	3142.7	3128.2	3099.3	3073.2
17.5°	4301.3	3910.3	3565.6	3380.2	3258.6	3220.9	3163.0	3102.2	3058.7	3064.5	3044.3
20°	4501.2	4043.6	3585.9	3397.6	3241.2	3168.8	3079.0	3041.4	2995.0	2992.1	2989.2
22.5°	4738.7	4223.1	3614.9	3351.3	3189.1	3113.8	3052.9	2986.3	2954.5	2913.9	2934.2
25°	5022.6	4292.7	3620.7	3325.2	3151.4	3018.2	2986.3	2913.9	2902.3	2844.4	2856.0
27.5°	5228.2	4330.3	3574.3	3244.1	3064.5	2963.1	2905.2	2853.1	2832.8	2789.4	2777.8
30°	5503.4	4388.2	3475.8	3142.7	2977.6	2864.7	2829.9	2818.3	2760.4	2714.0	2708.3
32.5°	5816.2	4425.9	3412.1	3038.5	2887.8	2800.9	2818.3	2763.3	2690.9	2650.3	2638.7
35°	6065.3	4440.4	3252.8	2919.7	2827.0	2772.0	2751.7	2740.1	2635.8	2598.2	2569.2
37.5°	6444.8	4408.5	3119.6	2835.7	2760.4	2740.1	2722.7	2644.5	2525.8	2470.7	2430.2
40°	6887.9	4399.8	2948.7	2716.9	2696.7	2719.8	2667.7	2546.0	2380.9	2320.1	2291.2
42.5°	7313.7	4460.7	2841.5	2653.2	2627.2	2635.8	2563.4	2380.9	2299.8	2265.1	2218.7
45°	8026.3	4588.1	2664.8	2554.7	2543.2	2537.4	2450.5	2259.3	2212.9	2169.5	2160.8
47.5°	8669.3	4504.1	2551.8	2453.4	2464.9	2433.1	2247.7	2186.9	2134.7	2091.3	2076.8
50°	8707.0	4304.2	2392.5	2375.2	2378.0	2323.0	2146.3	2105.8	2039.2	2010.2	1989.9
52.5°	8510.0	3976.9	2244.8	2250.6	2259.3	2169.5	2021.8	1992.8	1937.8	1897.2	1885.6
55°	7956.8	3467.1	2100.0	2123.2	2146.3	1975.4	1929.1	1856.7	1813.2	1755.3	1758.2
57.5°	7009.6	2792.3	1897.2	1934.9	1984.1	1795.8	1761.1	1671.3	1607.6	1561.2	1555.4
60°	4698.2	1987.0	1593.1	1607.6	1717.6	1642.3	1639.4	1549.6	1462.7	1422.2	1399.0
62.5°	2772.0	1517.8	1375.9	1361.4	1358.5	1401.9	1474.3	1442.5	1329.5	1251.3	1274.5
65°	1451.2	1312.1	1280.3	1231.0	1202.1	1190.5	1245.5	1260.0	1184.7	1100.7	1094.9
67.5°	1219.4	1219.4	1193.4	1176.0	1135.4	1086.2	1051.4	1005.1	993.5	970.3	941.4
70°	1109.4	1138.3	1129.6	1089.1	1054.3	999.3	909.5	834.2	761.8	735.7	753.1
72.5°	967.4	996.4	996.4	976.1	929.8	845.8	758.9	672.0	611.2	564.8	559.0
75°	744.4	758.9	793.6	770.5	709.6	657.5	567.7	477.9	420.0	376.5	367.9
77.5°	475.0	498.2	498.2	495.3	451.9	402.6	344.7	281.0	237.5	205.7	197.0
80°	315.7	330.2	341.8	330.2	301.2	263.6	220.1	176.7	144.8	118.8	113.0
82.5°	231.7	249.1	257.8	246.2	217.2	188.3	156.4	124.6	92.7	72.4	66.6
85°	89.8	92.7	104.3	124.6	121.7	118.8	95.6	69.5	52.1	37.7	34.8
87.5°	23.2	20.3	23.2	23.2	20.3	17.4	17.4	17.4	17.4	8.7	11.6
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)