

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: P454156

Luminaire Tested: **GALN-SA5B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23633 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

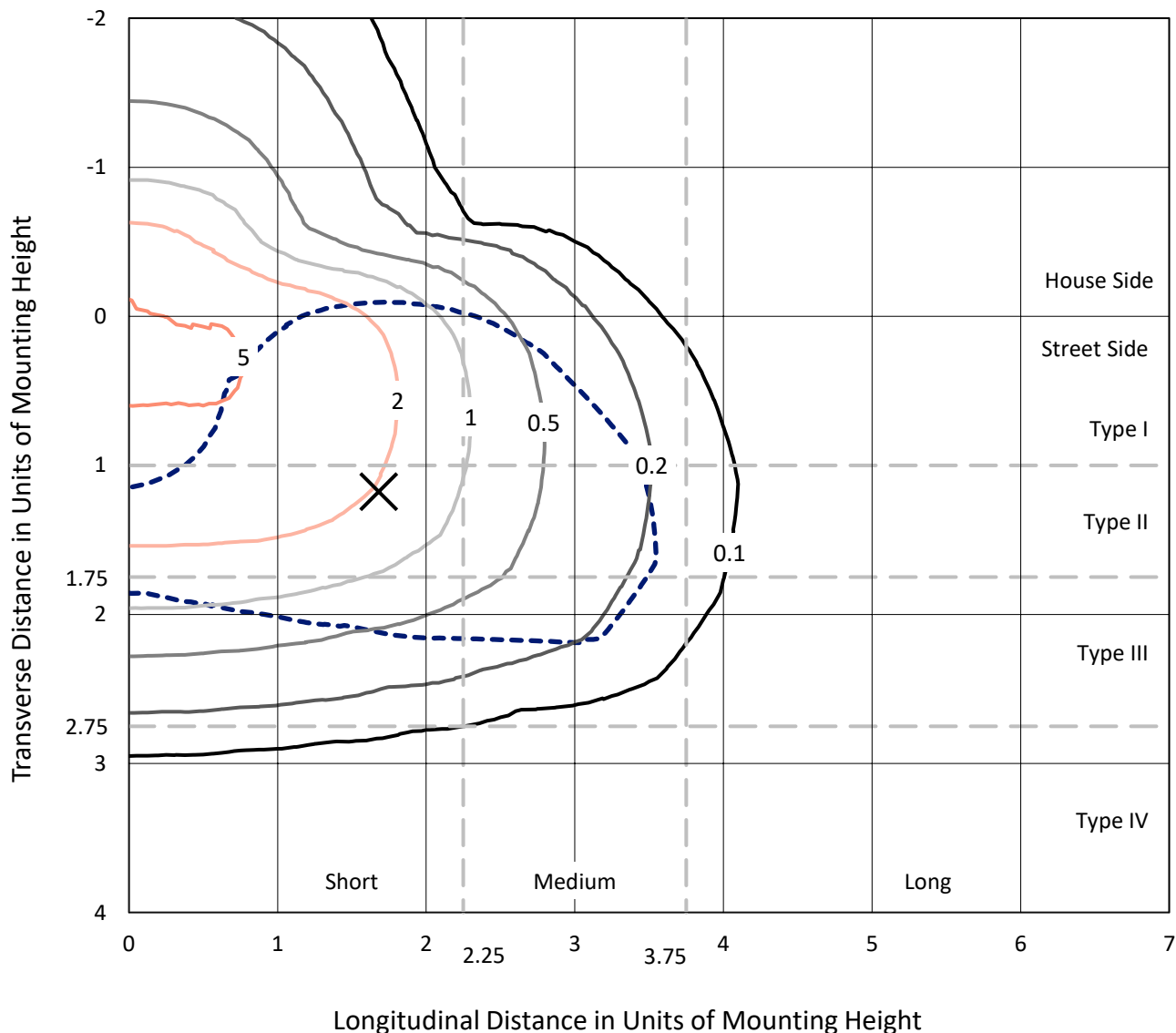
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

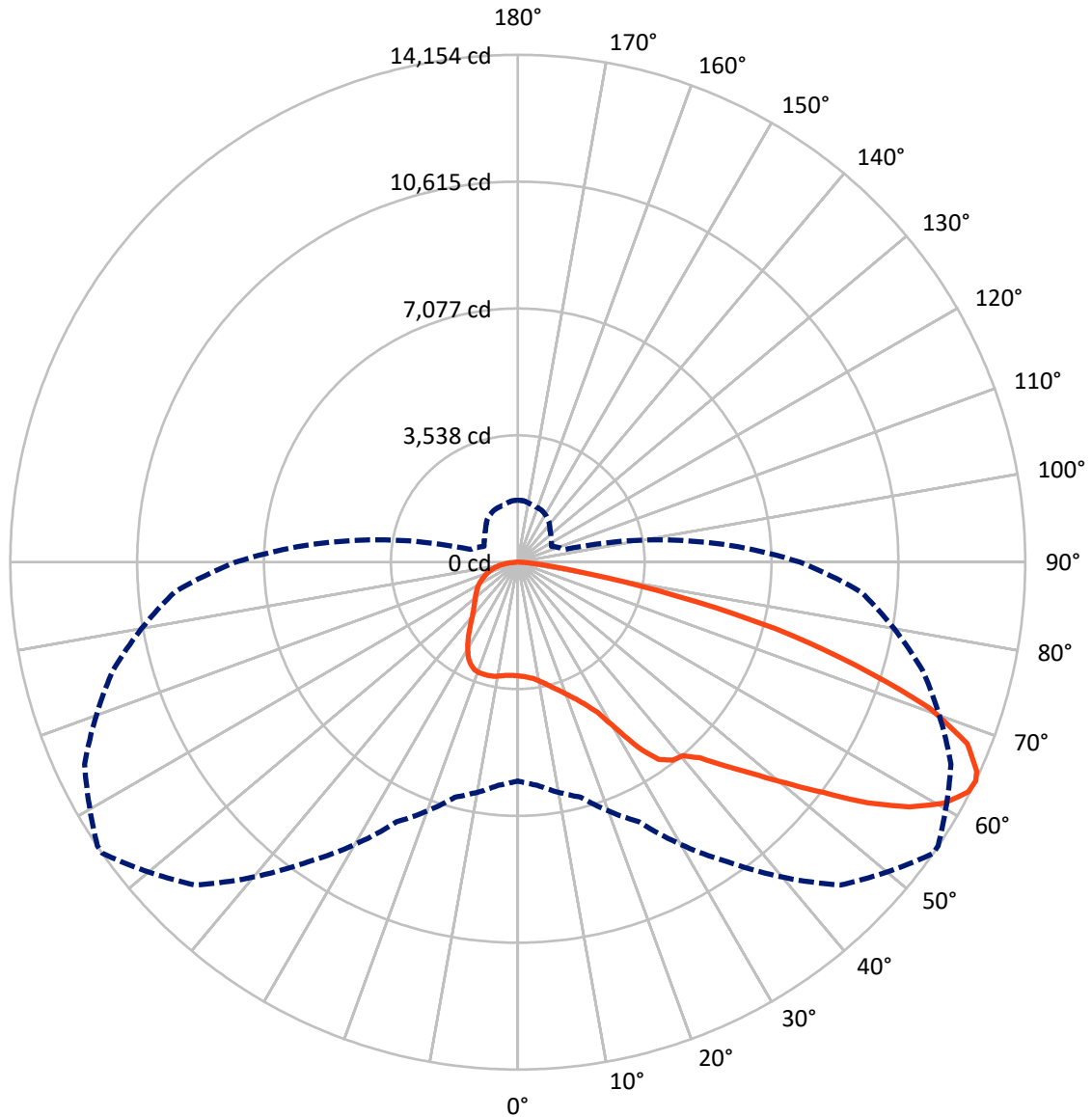
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5740.9	0.0	5740.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17892.1	0.0	17892.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	23633.0	0.0	23633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	1.3
10°-20°	973.2	4.1
20°-30°	1732.6	7.3
30°-40°	2665.8	11.3
40°-50°	3778.9	16.0
50°-60°	5469.9	23.1
60°-70°	5660.8	24.0
70°-80°	2650.9	11.2
80°-90°	392.4	1.7
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°	23633.0	100.0
0°-180°	23633.0	100.0

Coefficient of Utilization



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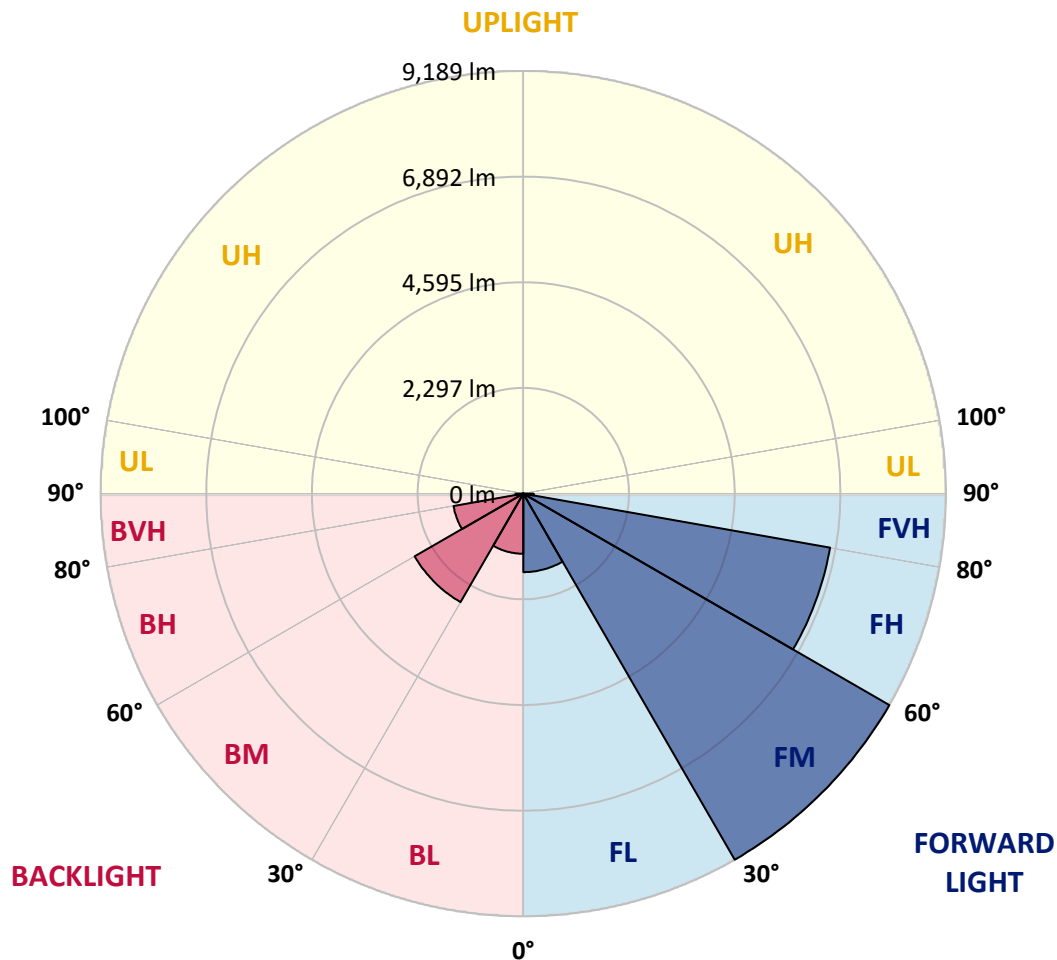
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1706.7	7.2			
FM	(30°-60°)	9189.2	38.9			
FH	(60°-80°)	6771.5	28.7			G3/7500
FVH	(80°-90°)	224.7	1.0			G2/225
BL	(0°-30°)	1307.6	5.5	B3/2500		
BM	(30°-60°)	2725.4	11.5	B3/5000		
BH	(60°-80°)	1540.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	167.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8
2.5°	3206.4	3205.1	3209.0	3205.1	3207.7	3198.5	3194.5	3197.2	3193.2	3186.6	3174.8
5°	3245.9	3244.6	3245.9	3240.7	3243.3	3238.0	3228.8	3231.4	3224.8	3210.4	3193.2
7.5°	3313.1	3307.8	3307.8	3306.5	3301.3	3293.3	3286.8	3284.1	3277.5	3259.1	3232.8
10°	3400.1	3400.1	3401.4	3390.8	3397.4	3382.9	3376.3	3375.0	3352.6	3328.9	3292.0
12.5°	3514.7	3521.2	3517.3	3512.0	3509.4	3504.1	3481.7	3487.0	3462.0	3421.1	3376.3
15°	3656.9	3667.5	3660.9	3658.3	3651.7	3631.9	3622.7	3618.7	3585.8	3526.5	3467.2
17.5°	3845.3	3832.1	3826.9	3820.3	3792.6	3778.1	3762.3	3759.7	3730.7	3660.9	3568.7
20°	4010.0	4028.4	4017.9	4011.3	3983.6	3956.0	3944.1	3940.2	3915.1	3838.7	3691.2
22.5°	4206.3	4210.2	4214.2	4198.4	4185.2	4164.1	4143.0	4136.4	4127.2	4048.2	3867.7
25°	4415.7	4431.5	4418.4	4402.5	4386.7	4385.4	4405.2	4402.5	4398.6	4322.2	4102.2
27.5°	4756.9	4771.4	4775.4	4758.2	4697.6	4702.9	4747.7	4762.2	4822.8	4696.3	4403.9
30°	4949.2	4963.7	4996.7	5061.2	5157.4	5241.7	5349.7	5382.6	5440.6	5202.2	4762.2
32.5°	5067.8	5073.1	5132.4	5252.2	5540.7	5855.6	6149.3	6161.2	6198.1	5863.5	5090.2
35°	5254.9	5258.8	5306.2	5438.0	5776.5	6300.8	6755.3	6769.8	6739.5	6069.0	5243.0
37.5°	5485.4	5495.9	5526.2	5635.6	6040.0	6673.6	7006.9	6996.4	6727.7	6232.3	5513.1
40°	5821.3	5821.3	5785.8	5933.3	6318.0	6887.0	7095.2	7076.7	7005.6	6705.3	5924.1
42.5°	6117.7	6112.5	6196.8	6296.9	6665.7	7216.4	7465.4	7495.7	7612.9	7299.4	6391.7
45°	6503.7	6527.4	6574.8	6756.6	7257.2	7778.9	8100.3	8129.3	8295.3	7998.9	6938.4
47.5°	6893.6	6901.5	7050.4	7292.8	7989.7	8541.6	8805.1	8852.5	9004.0	8817.0	7527.3
50°	7170.3	7245.4	7483.8	7865.8	8744.5	9471.7	9677.2	9733.8	10001.2	9707.5	8213.6
52.5°	7462.7	7536.5	7827.6	8409.9	9611.3	10422.8	10675.7	10713.9	10991.9	10608.5	8915.8
55°	7713.0	7781.5	8112.2	8892.0	10301.6	11393.7	11852.1	11807.3	11940.4	11302.8	9457.2
57.5°	7753.9	7809.2	8225.5	9200.3	10820.6	12226.2	12883.6	12909.9	12755.8	11821.8	9903.8
60°	7437.7	7551.0	8029.2	9167.4	11053.8	12805.9	13652.9	13671.3	13234.0	12087.9	10081.6
62.5°	6877.8	6866.0	7444.3	8637.8	10727.1	12937.6	14106.1	14086.3	13421.1	11960.1	9909.0
64°	6104.5	6246.8	6786.9	7987.0	10200.2	12734.7	14153.5	14143.0	13331.5	11694.0	9615.3
65°	5632.9	5625.0	6158.6	7454.8	9675.9	12429.1	14069.2	14054.7	13144.4	11455.6	9387.4
67.5°	4066.6	4085.1	4612.0	5752.8	7865.8	11234.3	13519.9	13465.8	12406.7	10665.2	8520.5
70°	2463.4	2474.0	2887.6	3816.3	5646.1	9081.7	12186.7	12189.3	11277.7	9484.8	7252.0
72.5°	1297.6	1325.2	1491.2	2167.0	3429.0	6372.0	9886.6	10121.1	9682.4	8095.0	5729.1
75°	721.9	725.9	843.1	1068.4	1749.4	3566.0	7431.1	7498.3	7665.6	6515.6	4236.6
77.5°	550.6	558.6	595.4	690.3	952.4	1653.3	4497.4	4834.6	5402.4	4593.6	2417.3
80°	446.6	454.5	486.1	542.7	633.6	783.8	2089.3	2271.1	2891.6	2039.2	943.2
82.5°	347.8	342.5	383.3	420.2	461.1	463.7	857.6	948.5	1177.7	877.3	408.4
85°	258.2	258.2	291.1	283.2	297.7	271.4	378.1	417.6	471.6	372.8	189.7
87.5°	102.8	113.3	191.0	171.3	133.1	106.7	139.6	147.5	163.4	146.2	79.0
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°	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8
2.5°	3176.1	3180.1	3170.8	3164.2	3161.6	3157.7	3153.7	3155.0	3160.3	3165.6	3164.2
5°	3191.9	3193.2	3177.4	3169.5	3164.2	3159.0	3159.0	3162.9	3173.5	3181.4	3181.4
7.5°	3231.4	3231.4	3209.0	3194.5	3186.6	3177.4	3174.8	3176.1	3184.0	3194.5	3195.9
10°	3293.3	3288.1	3259.1	3236.7	3222.2	3199.8	3180.1	3169.5	3173.5	3180.1	3180.1
12.5°	3368.4	3353.9	3317.1	3286.8	3251.2	3209.0	3168.2	3147.1	3145.8	3152.4	3149.8
15°	3448.8	3433.0	3381.6	3326.3	3264.4	3202.5	3153.7	3123.4	3099.7	3093.1	3107.6
17.5°	3542.3	3509.4	3438.3	3361.8	3269.6	3189.3	3112.9	3051.0	3008.8	2996.9	3000.9
20°	3655.6	3612.1	3516.0	3396.1	3265.7	3141.9	3023.3	2940.3	2871.8	2850.7	2853.4
22.5°	3812.4	3737.3	3596.3	3413.2	3232.8	3052.3	2887.6	2779.6	2696.6	2663.7	2683.4
25°	3990.2	3908.5	3672.7	3409.3	3147.1	2908.7	2726.9	2585.9	2510.8	2462.1	2472.6
27.5°	4235.2	4090.3	3754.4	3373.7	3024.6	2733.5	2522.7	2389.7	2321.2	2296.1	2308.0
30°	4548.8	4326.1	3842.7	3277.5	2831.0	2512.2	2317.2	2230.3	2189.4	2157.8	2168.3
32.5°	4775.4	4492.1	3862.4	3115.5	2621.5	2310.6	2177.6	2113.0	2068.2	2037.9	2044.5
35°	4937.4	4633.1	3853.2	2916.6	2402.8	2144.6	2066.9	2014.2	1941.8	1875.9	1864.0
37.5°	5154.7	4809.6	3786.0	2699.2	2186.8	2032.7	1977.3	1879.8	1775.8	1687.5	1683.6
40°	5488.0	5016.4	3642.4	2443.7	2002.4	1949.7	1882.5	1756.0	1644.0	1572.9	1567.6
42.5°	5831.9	5207.4	3447.5	2174.9	1850.9	1862.7	1781.0	1655.9	1587.4	1541.3	1536.0
45°	6252.1	5414.3	3236.7	1941.8	1738.9	1781.0	1692.8	1620.3	1579.5	1549.2	1541.3
47.5°	6706.6	5626.4	2999.6	1732.3	1644.0	1706.0	1655.9	1623.0	1600.6	1579.5	1570.3
50°	7196.6	5863.5	2777.0	1563.7	1558.4	1628.2	1651.9	1640.1	1626.9	1620.3	1612.4
52.5°	7734.1	6105.9	2589.9	1445.1	1483.3	1572.9	1653.3	1662.5	1662.5	1658.5	1653.3
55°	8097.7	6274.5	2400.2	1349.0	1406.9	1528.1	1650.6	1686.2	1699.4	1694.1	1688.8
57.5°	8366.4	6366.7	2161.8	1266.0	1342.4	1484.6	1636.1	1688.8	1702.0	1708.6	1706.0
60°	8421.7	6281.1	1849.5	1179.0	1272.5	1421.4	1583.4	1649.3	1666.4	1707.3	1711.2
62.5°	8172.8	6017.6	1538.7	1093.4	1186.9	1325.2	1512.3	1604.5	1638.8	1702.0	1708.6
64°	7867.1	5722.5	1366.1	1039.4	1131.6	1271.2	1476.7	1592.7	1637.5	1721.8	1727.0
65°	7643.2	5507.8	1258.1	1005.1	1096.0	1235.7	1457.0	1596.6	1649.3	1752.1	1760.0
67.5°	6818.5	4768.8	1040.7	924.8	1011.7	1175.1	1460.9	1629.5	1646.7	1763.9	1762.6
70°	5642.2	3796.6	872.1	851.0	930.0	1126.3	1445.1	1576.9	1578.2	1655.9	1637.5
72.5°	4224.7	2805.9	756.2	774.6	839.1	1010.4	1364.8	1505.7	1483.3	1493.9	1475.4
75°	2902.1	1856.1	650.8	692.9	744.3	893.2	1251.5	1367.4	1331.8	1318.7	1305.5
77.5°	1549.2	1026.2	541.4	612.6	646.8	772.0	1092.1	1204.0	1167.2	1115.8	1098.7
80°	627.1	483.5	436.0	507.2	526.9	621.8	909.0	978.8	951.1	861.5	832.6
82.5°	314.8	289.8	342.5	399.2	400.5	443.9	675.8	741.7	679.7	570.4	545.4
85°	164.7	169.9	235.8	280.6	247.7	239.8	405.7	449.2	412.3	358.3	322.7
87.5°	59.3	68.5	123.8	122.5	86.9	46.1	89.6	43.5	23.7	14.5	18.4
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)