

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: P453924

Luminaire Tested: **GALN-SA5A-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453924  
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-SA5A-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18993 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

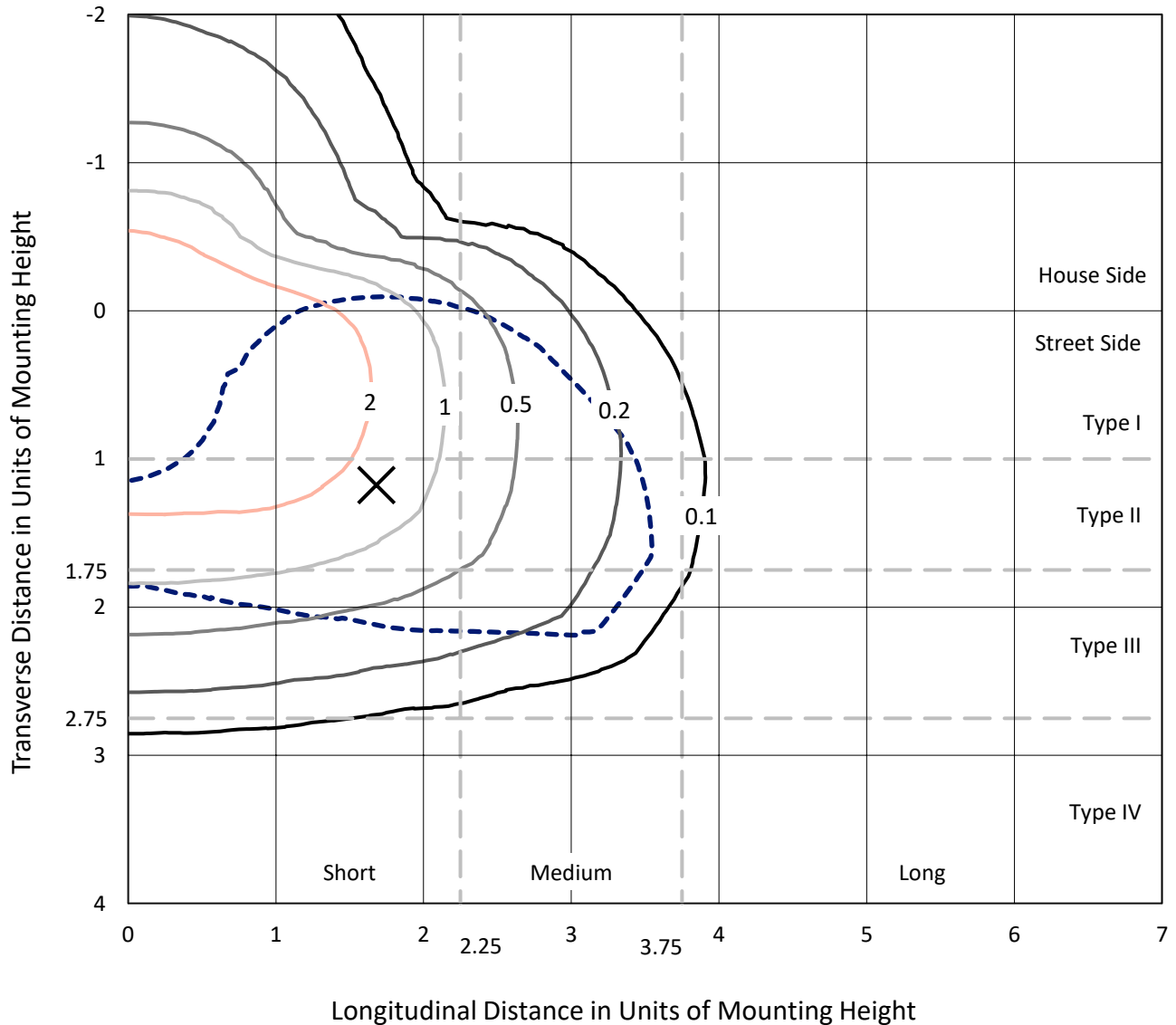
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

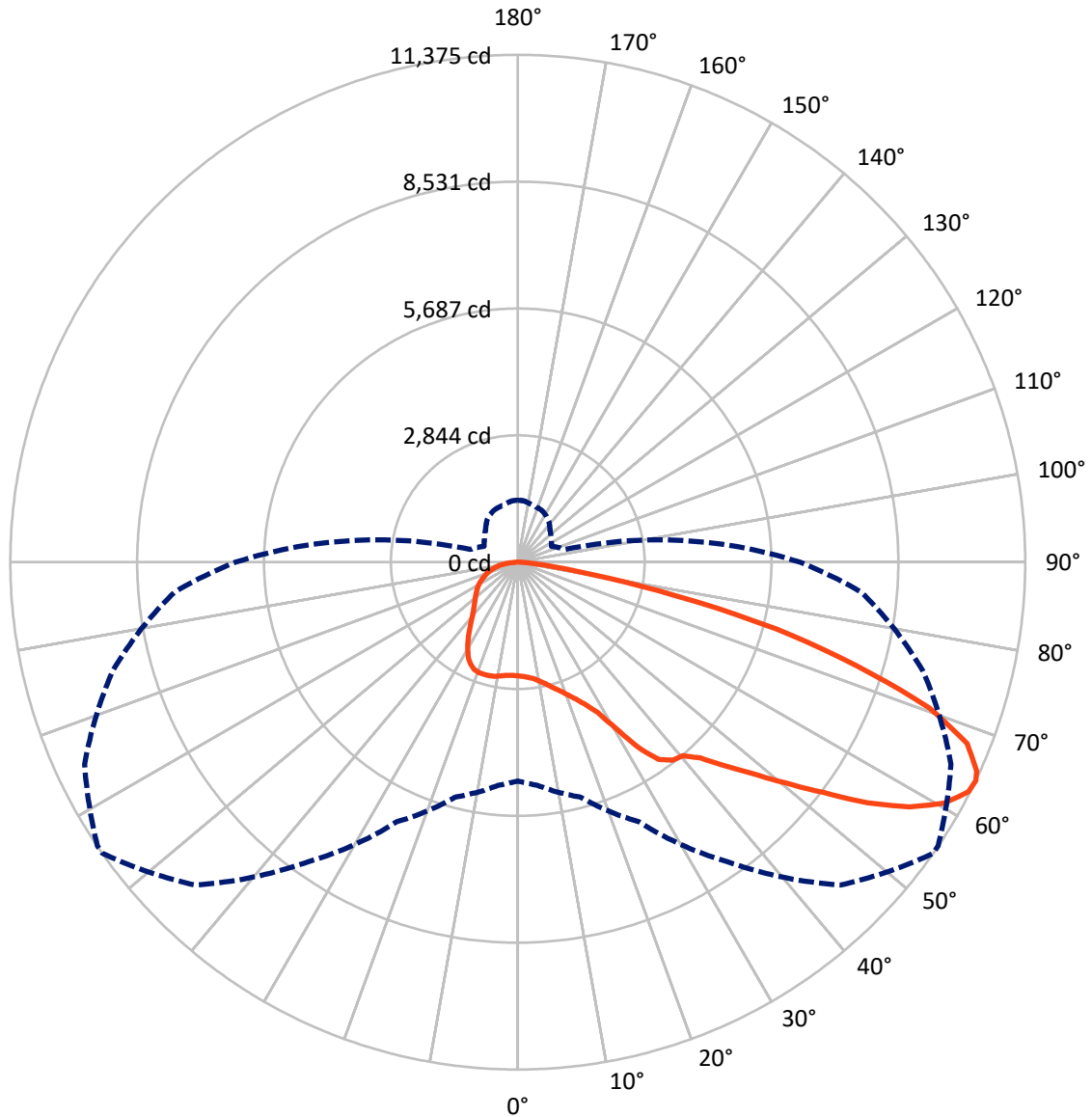
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
<b>House Side</b>	Lumens	4613.8	0.0	4613.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	14379.2	0.0	14379.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	18993.0	0.0	18993.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.9	1.3
10°-20°	782.1	4.1
20°-30°	1392.4	7.3
30°-40°	2142.4	11.3
40°-50°	3037.0	16.0
50°-60°	4396.0	23.1
60°-70°	4549.4	24.0
70°-80°	2130.5	11.2
80°-90°	315.4	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°	18993.0	100.0
0°-180°	18993.0	100.0

**Coefficient of Utilization**



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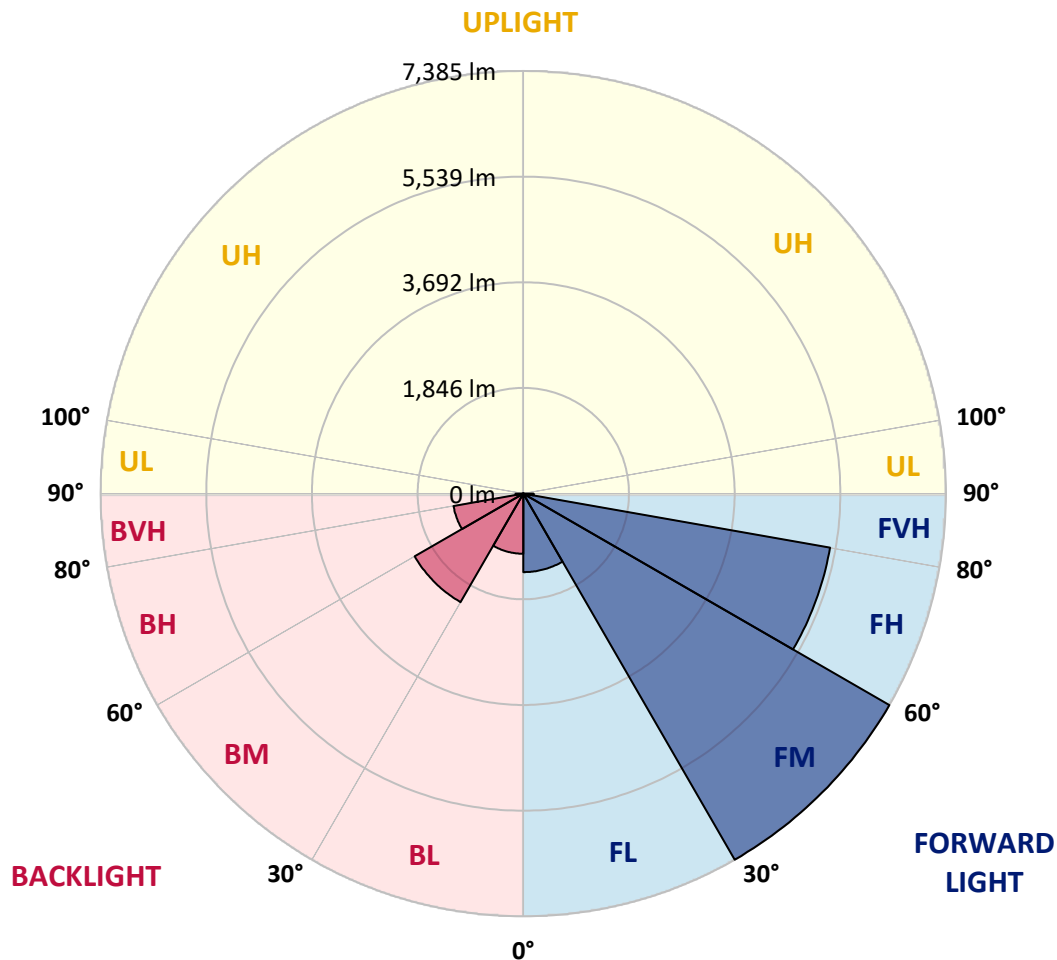
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.6	7.2			
FM (30°-60°)	7385.0	38.9			
FH (60°-80°)	5442.0	28.7			G3/7500
FVH (80°-90°)	180.6	1.0			G2/225
BL (0°-30°)	1050.8	5.5	B3/2500		
BM (30°-60°)	2190.3	11.5	B2/2500		
BH (60°-80°)	1237.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	134.8	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°	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3
2.5°	2576.9	2575.8	2579.0	2575.8	2577.9	2570.5	2567.3	2569.5	2566.3	2561.0	2551.5
5°	2608.6	2607.6	2608.6	2604.4	2606.5	2602.3	2594.9	2597.0	2591.7	2580.0	2566.3
7.5°	2662.6	2658.4	2658.4	2657.3	2653.1	2646.7	2641.5	2639.3	2634.0	2619.2	2598.0
10°	2732.5	2732.5	2733.6	2725.1	2730.4	2718.7	2713.4	2712.4	2694.4	2675.3	2645.7
12.5°	2824.6	2829.9	2826.7	2822.5	2820.4	2816.1	2798.1	2802.4	2782.3	2749.4	2713.4
15°	2938.9	2947.4	2942.1	2940.0	2934.7	2918.8	2911.4	2908.2	2881.8	2834.1	2786.5
17.5°	3090.3	3079.8	3075.5	3070.2	3048.0	3036.3	3023.6	3021.5	2998.2	2942.1	2868.0
20°	3222.7	3237.5	3229.0	3223.7	3201.5	3179.3	3169.7	3166.6	3146.5	3085.0	2966.5
22.5°	3380.4	3383.6	3386.8	3374.1	3363.5	3346.5	3329.6	3324.3	3316.9	3253.4	3108.3
25°	3548.8	3561.5	3550.9	3538.2	3525.5	3524.4	3540.3	3538.2	3535.0	3473.6	3296.8
27.5°	3823.0	3834.6	3837.8	3824.0	3775.3	3779.6	3815.5	3827.2	3875.9	3774.3	3539.2
30°	3977.5	3989.2	4015.6	4067.5	4144.8	4212.6	4299.4	4325.8	4372.4	4180.8	3827.2
32.5°	4072.8	4077.0	4124.7	4221.0	4452.9	4705.9	4942.0	4951.5	4981.2	4712.3	4090.8
35°	4223.1	4226.3	4264.4	4370.3	4642.4	5063.8	5429.0	5440.7	5416.3	4877.4	4213.6
37.5°	4408.4	4416.9	4441.2	4529.1	4854.1	5363.4	5631.2	5622.7	5406.8	5008.7	4430.7
40°	4678.4	4678.4	4649.8	4768.4	5077.5	5534.9	5702.2	5687.3	5630.2	5388.8	4761.0
42.5°	4916.6	4912.4	4980.1	5060.6	5357.0	5799.6	5999.6	6024.0	6118.2	5866.2	5136.8
45°	5226.8	5245.9	5284.0	5430.1	5832.4	6251.6	6509.9	6533.2	6666.6	6428.4	5576.2
47.5°	5540.2	5546.5	5666.2	5861.0	6421.0	6864.6	7076.3	7114.5	7236.2	7085.9	6049.4
50°	5762.5	5822.8	6014.5	6321.5	7027.6	7612.0	7777.2	7822.7	8037.6	7801.5	6601.0
52.5°	5997.5	6056.8	6290.8	6758.7	7724.3	8376.4	8579.7	8610.4	8833.8	8525.7	7165.3
55°	6198.7	6253.7	6519.5	7146.2	8279.0	9156.7	9525.1	9489.1	9596.0	9083.6	7600.4
57.5°	6231.5	6276.0	6610.5	7394.0	8696.1	9825.8	10354.1	10375.2	10251.4	9500.8	7959.3
60°	5977.4	6068.5	6452.8	7367.5	8883.5	10291.6	10972.4	10987.2	10635.7	9714.6	8102.2
62.5°	5527.5	5517.9	5982.7	6941.9	8621.0	10397.5	11336.5	11320.7	10786.0	9611.9	7963.5
64°	4906.0	5020.3	5454.4	6418.9	8197.5	10234.4	11374.7	11366.2	10714.0	9398.1	7727.4
65°	4527.0	4520.6	4949.4	5991.2	7776.1	9988.8	11306.9	11295.3	10563.7	9206.4	7544.3
67.5°	3268.2	3283.0	3706.5	4623.3	6321.5	9028.6	10865.4	10822.0	9970.8	8571.2	6847.7
70°	1979.8	1988.2	2320.7	3067.0	4537.6	7298.7	9794.0	9796.1	9063.5	7622.6	5828.1
72.5°	1042.8	1065.1	1198.4	1741.6	2755.8	5120.9	7945.5	8134.0	7781.4	6505.7	4604.3
75°	580.2	583.3	677.6	858.6	1406.0	2865.9	5972.1	6026.1	6160.6	5236.3	3404.8
77.5°	442.5	448.9	478.5	554.8	765.4	1328.7	3614.4	3885.4	4341.7	3691.7	1942.7
80°	358.9	365.3	390.7	436.2	509.2	629.9	1679.1	1825.2	2323.8	1638.9	758.0
82.5°	279.5	275.3	308.1	337.7	370.5	372.7	689.2	762.3	946.5	705.1	328.2
85°	207.5	207.5	234.0	227.6	239.3	218.1	303.8	335.6	379.0	299.6	152.5
87.5°	82.6	91.0	153.5	137.6	106.9	85.8	112.2	118.6	131.3	117.5	63.5
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°	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3
2.5°	2552.5	2555.7	2548.3	2543.0	2540.9	2537.7	2534.5	2535.6	2539.8	2544.1	2543.0
5°	2565.2	2566.3	2553.6	2547.2	2543.0	2538.8	2538.8	2541.9	2550.4	2556.8	2556.8
7.5°	2597.0	2597.0	2579.0	2567.3	2561.0	2553.6	2551.5	2552.5	2558.9	2567.3	2568.4
10°	2646.7	2642.5	2619.2	2601.2	2589.6	2571.6	2555.7	2547.2	2550.4	2555.7	2555.7
12.5°	2707.1	2695.4	2665.8	2641.5	2612.9	2579.0	2546.2	2529.2	2528.2	2533.5	2531.3
15°	2771.7	2759.0	2717.7	2673.2	2623.5	2573.7	2534.5	2510.2	2491.1	2485.8	2497.5
17.5°	2846.8	2820.4	2763.2	2701.8	2627.7	2563.1	2501.7	2451.9	2418.1	2408.5	2411.7
20°	2937.9	2903.0	2825.7	2729.3	2624.5	2525.0	2429.7	2363.0	2308.0	2291.0	2293.1
22.5°	3063.9	3003.5	2890.2	2743.1	2598.0	2453.0	2320.7	2233.9	2167.2	2140.7	2156.6
25°	3206.8	3141.2	2951.7	2739.9	2529.2	2337.6	2191.5	2078.2	2017.9	1978.7	1987.2
27.5°	3403.7	3287.3	3017.3	2711.3	2430.8	2196.8	2027.4	1920.5	1865.4	1845.3	1854.8
30°	3655.7	3476.8	3088.2	2634.0	2275.1	2018.9	1862.3	1792.4	1759.6	1734.1	1742.6
32.5°	3837.8	3610.2	3104.1	2503.8	2106.8	1857.0	1750.0	1698.2	1662.2	1637.8	1643.1
35°	3968.0	3723.4	3096.7	2344.0	1931.1	1723.6	1661.1	1618.8	1560.5	1507.6	1498.1
37.5°	4142.7	3865.3	3042.7	2169.3	1757.4	1633.6	1589.1	1510.8	1427.1	1356.2	1353.0
40°	4410.5	4031.5	2927.3	1963.9	1609.2	1566.9	1512.9	1411.2	1321.3	1264.1	1259.9
42.5°	4686.9	4185.0	2770.6	1747.9	1487.5	1497.0	1431.4	1330.8	1275.7	1238.7	1234.4
45°	5024.6	4351.3	2601.2	1560.5	1397.5	1431.4	1360.4	1302.2	1269.4	1245.0	1238.7
47.5°	5389.8	4521.7	2410.7	1392.2	1321.3	1371.0	1330.8	1304.3	1286.3	1269.4	1262.0
50°	5783.7	4712.3	2231.7	1256.7	1252.4	1308.6	1327.6	1318.1	1307.5	1302.2	1295.8
52.5°	6215.6	4907.1	2081.4	1161.4	1192.1	1264.1	1328.7	1336.1	1336.1	1332.9	1328.7
55°	6507.8	5042.6	1928.9	1084.1	1130.7	1228.1	1326.5	1355.1	1365.7	1361.5	1357.3
57.5°	6723.8	5116.7	1737.3	1017.4	1078.8	1193.2	1314.9	1357.3	1367.8	1373.1	1371.0
60°	6768.3	5047.9	1486.4	947.5	1022.7	1142.3	1272.6	1325.5	1339.3	1372.1	1375.2
62.5°	6568.2	4836.1	1236.6	878.7	953.9	1065.1	1215.4	1289.5	1317.0	1367.8	1373.1
64°	6322.5	4599.0	1097.9	835.3	909.4	1021.6	1186.8	1280.0	1316.0	1383.7	1388.0
65°	6142.6	4426.4	1011.1	807.8	880.8	993.1	1170.9	1283.1	1325.5	1408.1	1414.4
67.5°	5479.8	3832.5	836.4	743.2	813.1	944.4	1174.1	1309.6	1323.4	1417.6	1416.5
70°	4534.4	3051.2	700.9	683.9	747.4	905.2	1161.4	1267.3	1268.3	1330.8	1316.0
72.5°	3395.2	2255.0	607.7	622.5	674.4	812.0	1096.8	1210.1	1192.1	1200.6	1185.7
75°	2332.3	1491.7	523.0	556.9	598.2	717.8	1005.8	1098.9	1070.3	1059.8	1049.2
77.5°	1245.0	824.7	435.1	492.3	519.8	620.4	877.7	967.7	938.0	896.7	883.0
80°	503.9	388.5	350.4	407.6	423.5	499.7	730.5	786.6	764.4	692.4	669.1
82.5°	253.0	232.9	275.3	320.8	321.8	356.8	543.1	596.0	546.3	458.4	438.3
85°	132.3	136.6	189.5	225.5	199.0	192.7	326.1	361.0	331.4	288.0	259.4
87.5°	47.6	55.1	99.5	98.5	69.9	37.1	72.0	34.9	19.1	11.6	14.8
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)