

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: P454997

Luminaire Tested: **GALN-SA6A-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454997
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-SA6A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 19769 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

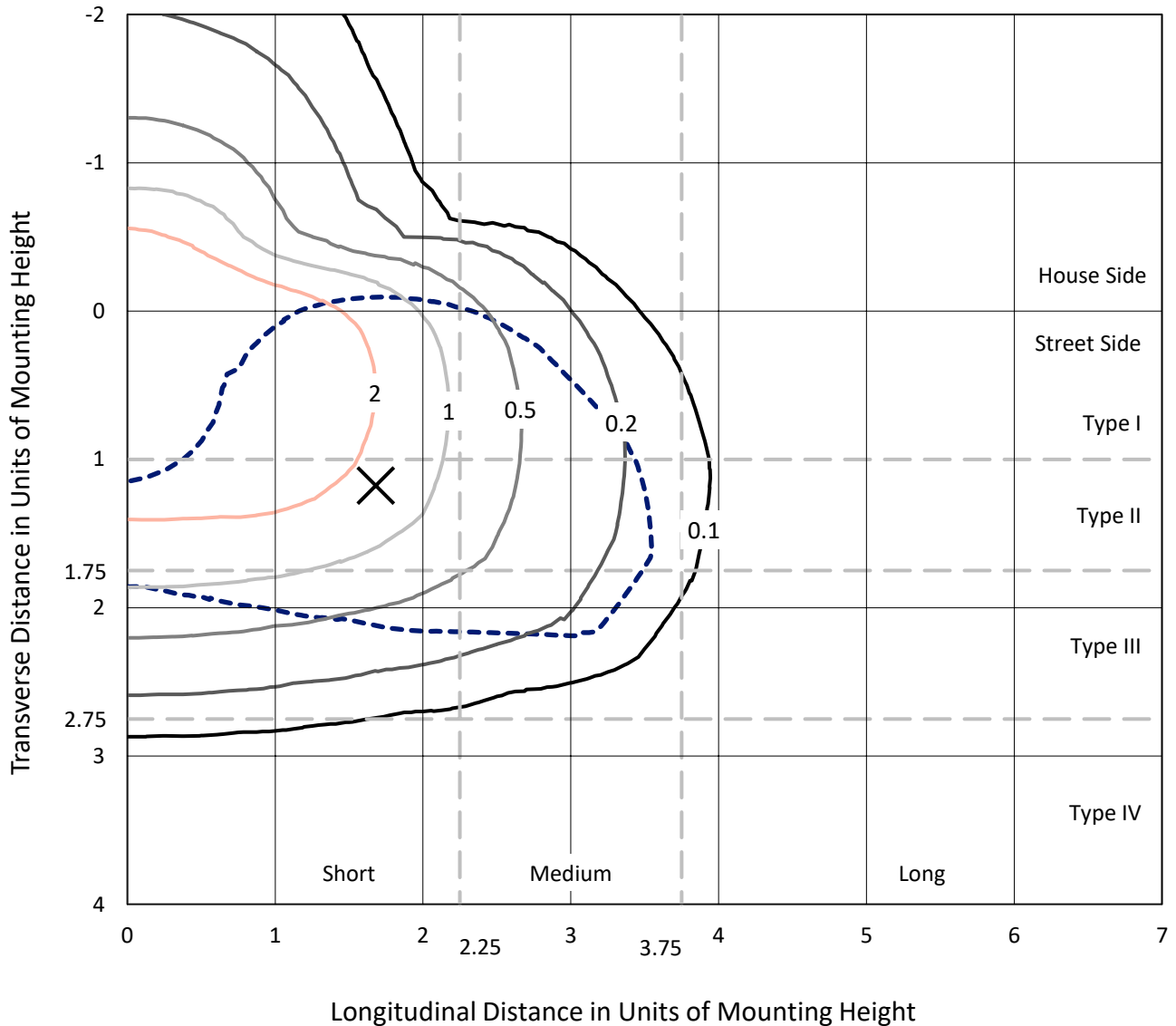
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

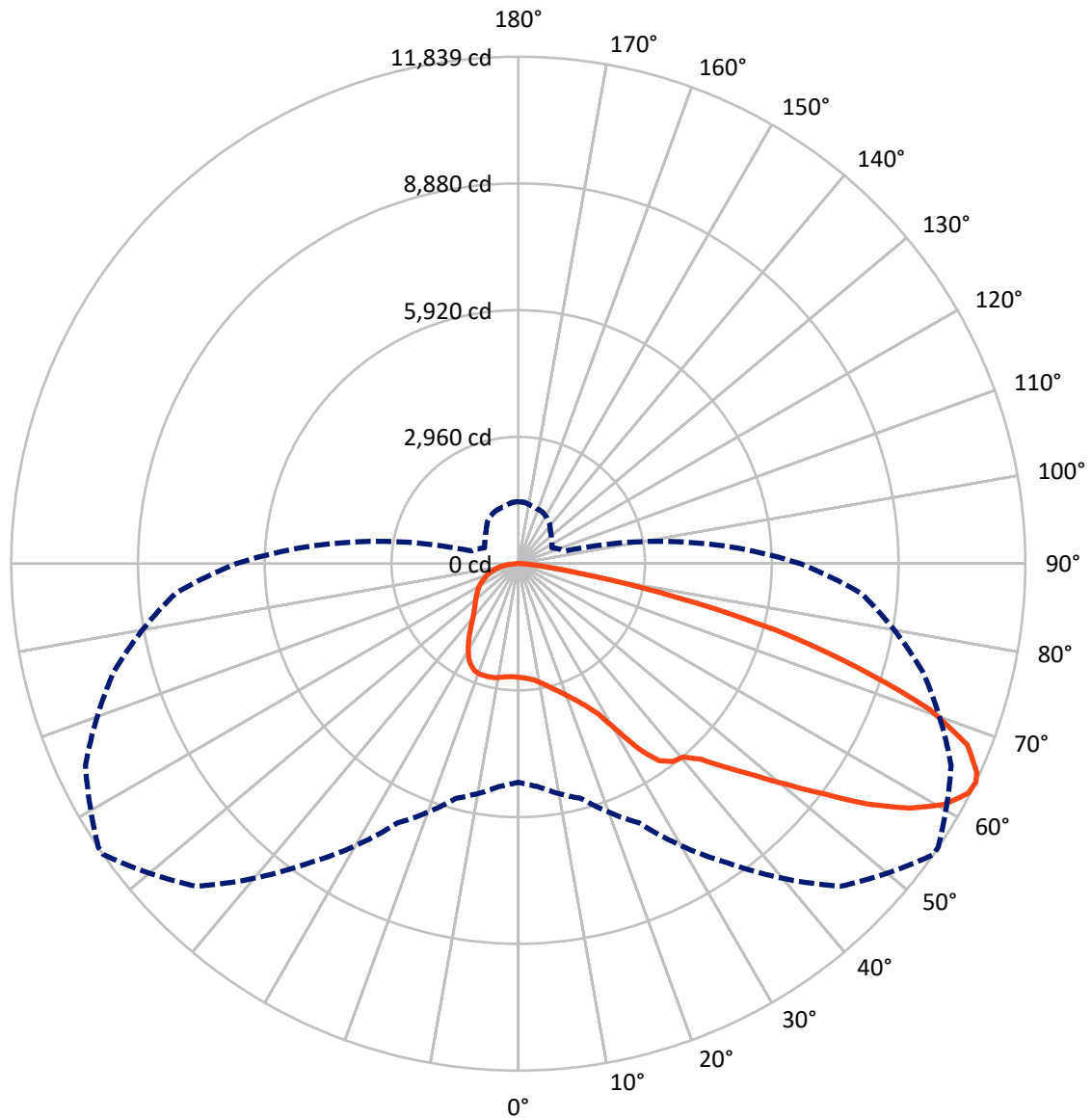
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4802.3	0.0	4802.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14966.7	0.0	14966.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	19769.0	0.0	19769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	1.3
10°-20°	814.1	4.1
20°-30°	1449.3	7.3
30°-40°	2229.9	11.3
40°-50°	3161.1	16.0
50°-60°	4575.6	23.1
60°-70°	4735.2	24.0
70°-80°	2217.5	11.2
80°-90°	328.3	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°	19769.0	100.0
0°-180°	19769.0	100.0

Coefficient of Utilization



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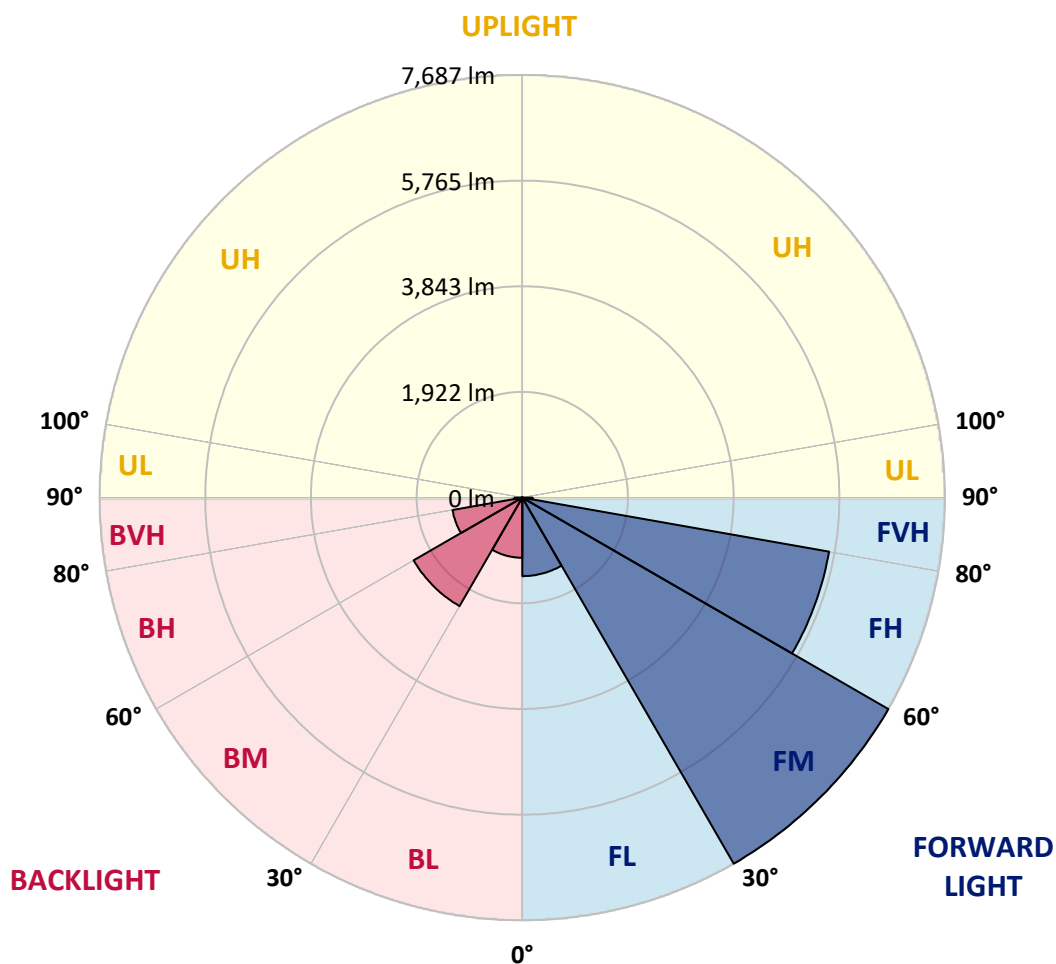
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.6	7.2			
FM	(30°-60°)	7686.7	38.9			
FH	(60°-80°)	5664.4	28.7			G3/7500
FVH	(80°-90°)	188.0	1.0			G2/225
BL	(0°-30°)	1093.8	5.5	B3/2500		
BM	(30°-60°)	2279.8	11.5	B2/2500		
BH	(60°-80°)	1288.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	140.3	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°	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4
2.5°	2682.2	2681.1	2684.4	2681.1	2683.3	2675.5	2672.2	2674.4	2671.1	2665.6	2655.7
5°	2715.2	2714.1	2715.2	2710.8	2713.0	2708.6	2700.9	2703.1	2697.6	2685.5	2671.1
7.5°	2771.4	2767.0	2767.0	2765.9	2761.5	2754.9	2749.4	2747.2	2741.7	2726.2	2704.2
10°	2844.1	2844.1	2845.2	2836.4	2841.9	2829.8	2824.3	2823.2	2804.5	2784.6	2753.8
12.5°	2940.0	2945.5	2942.2	2937.8	2935.6	2931.2	2912.5	2916.9	2895.9	2861.8	2824.3
15°	3059.0	3067.8	3062.3	3060.1	3054.6	3038.1	3030.4	3027.1	2999.5	2949.9	2900.3
17.5°	3216.6	3205.6	3201.2	3195.7	3172.5	3160.4	3147.2	3145.0	3120.7	3062.3	2985.2
20°	3354.3	3369.8	3361.0	3355.4	3332.3	3309.2	3299.3	3295.9	3275.0	3211.1	3087.7
22.5°	3518.5	3521.8	3525.2	3511.9	3500.9	3483.3	3465.6	3460.1	3452.4	3386.3	3235.3
25°	3693.7	3707.0	3696.0	3682.7	3669.5	3668.4	3684.9	3682.7	3679.4	3615.5	3431.5
27.5°	3979.2	3991.3	3994.6	3980.3	3929.6	3934.0	3971.4	3983.6	4034.3	3928.5	3683.8
30°	4140.0	4152.2	4179.7	4233.7	4314.1	4384.7	4475.0	4502.6	4551.1	4351.6	3983.6
32.5°	4239.2	4243.6	4293.2	4393.5	4634.8	4898.2	5143.9	5153.8	5184.7	4904.8	4257.9
35°	4395.7	4399.0	4438.7	4548.9	4832.1	5270.6	5650.8	5662.9	5637.6	5076.7	4385.8
37.5°	4588.5	4597.4	4622.7	4714.2	5052.5	5582.5	5861.3	5852.5	5627.7	5213.3	4611.7
40°	4869.5	4869.5	4839.8	4963.2	5285.0	5761.0	5935.1	5919.7	5860.2	5608.9	4955.5
42.5°	5117.5	5113.1	5183.6	5267.3	5575.9	6036.5	6244.8	6270.1	6368.2	6105.9	5346.7
45°	5440.3	5460.2	5499.9	5651.9	6070.7	6507.0	6775.9	6800.2	6939.0	6691.1	5804.0
47.5°	5766.5	5773.1	5897.7	6100.4	6683.4	7145.1	7365.5	7405.1	7531.9	7375.4	6296.6
50°	5997.9	6060.7	6260.2	6579.8	7314.8	7923.0	8095.0	8142.3	8366.0	8120.3	6870.7
52.5°	6242.6	6304.3	6547.8	7034.9	8039.9	8718.7	8930.2	8962.2	9194.7	8874.0	7458.0
55°	6451.9	6509.2	6785.8	7438.2	8617.3	9530.8	9914.3	9876.8	9988.1	9454.8	7910.9
57.5°	6486.1	6532.4	6880.6	7696.0	9051.4	10227.2	10777.1	10799.1	10670.2	9888.9	8284.5
60°	6221.6	6316.4	6716.4	7668.5	9246.5	10712.1	11420.7	11436.1	11070.2	10111.5	8433.3
62.5°	5753.3	5743.4	6227.1	7225.5	8973.2	10822.3	11799.7	11783.2	11226.7	10004.6	8288.9
64°	5106.5	5225.5	5677.3	6681.1	8532.4	10652.6	11839.4	11830.6	11151.8	9782.0	8043.2
65°	4712.0	4705.3	5151.6	6236.0	8093.9	10396.9	11768.9	11756.7	10995.3	9582.6	7852.5
67.5°	3401.7	3417.2	3857.9	4812.2	6579.8	9397.5	11309.4	11264.2	10378.2	8921.4	7127.4
70°	2060.7	2069.5	2415.5	3192.4	4723.0	7596.9	10194.2	10196.4	9433.8	7934.1	6066.3
72.5°	1085.4	1108.6	1247.4	1812.7	2868.4	5330.2	8270.2	8466.3	8099.4	6771.5	4792.4
75°	603.9	607.2	705.3	893.7	1463.4	2983.0	6216.1	6272.3	6412.3	5450.3	3543.9
77.5°	460.6	467.2	498.1	577.4	796.7	1383.0	3762.1	4044.2	4519.1	3842.5	2022.1
80°	373.6	380.2	406.6	454.0	530.0	655.7	1747.7	1899.8	2418.8	1705.8	789.0
82.5°	290.9	286.5	320.7	351.5	385.7	387.9	717.4	793.4	985.1	733.9	341.6
85°	216.0	216.0	243.5	236.9	249.0	227.0	316.3	349.3	394.5	311.9	158.7
87.5°	86.0	94.8	159.8	143.3	111.3	89.3	116.8	123.4	136.6	122.3	66.1
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°	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4	2652.4
2.5°	2656.8	2660.1	2652.4	2646.9	2644.7	2641.4	2638.1	2639.2	2643.6	2648.0	2646.9
5°	2670.0	2671.1	2657.9	2651.3	2646.9	2642.5	2642.5	2645.8	2654.6	2661.2	2661.2
7.5°	2703.1	2703.1	2684.4	2672.2	2665.6	2657.9	2655.7	2656.8	2663.4	2672.2	2673.3
10°	2754.9	2750.5	2726.2	2707.5	2695.4	2676.6	2660.1	2651.3	2654.6	2660.1	2660.1
12.5°	2817.7	2805.6	2774.7	2749.4	2719.6	2684.4	2650.2	2632.6	2631.5	2637.0	2634.8
15°	2884.9	2871.7	2828.7	2782.4	2730.6	2678.8	2638.1	2612.7	2592.9	2587.4	2599.5
17.5°	2963.2	2935.6	2876.1	2812.2	2735.0	2667.8	2603.9	2552.1	2516.9	2506.9	2510.3
20°	3057.9	3021.6	2941.1	2840.8	2731.7	2628.2	2529.0	2459.6	2402.3	2384.6	2386.8
22.5°	3189.1	3126.2	3008.3	2855.2	2704.2	2553.2	2415.5	2325.1	2255.7	2228.2	2244.7
25°	3337.8	3269.5	3072.2	2851.9	2632.6	2433.1	2281.0	2163.1	2100.3	2059.6	2068.4
27.5°	3542.8	3421.6	3140.6	2822.1	2530.1	2286.6	2110.2	1998.9	1941.6	1920.7	1930.6
30°	3805.0	3618.8	3214.4	2741.7	2368.1	2101.4	1938.3	1865.6	1831.4	1805.0	1813.8
32.5°	3994.6	3757.7	3230.9	2606.1	2192.9	1932.8	1821.5	1767.5	1730.1	1704.7	1710.2
35°	4130.1	3875.6	3223.2	2439.7	2010.0	1794.0	1729.0	1684.9	1624.3	1569.2	1559.3
37.5°	4311.9	4023.2	3167.0	2257.9	1829.2	1700.3	1654.0	1572.5	1485.4	1411.6	1408.3
40°	4590.7	4196.2	3046.9	2044.1	1675.0	1630.9	1574.7	1468.9	1375.2	1315.7	1311.3
42.5°	4878.4	4356.0	2883.8	1819.3	1548.2	1558.2	1489.8	1385.2	1327.9	1289.3	1284.9
45°	5229.9	4529.0	2707.5	1624.3	1454.6	1489.8	1416.0	1355.4	1321.2	1295.9	1289.3
47.5°	5610.0	4706.4	2509.1	1449.1	1375.2	1427.0	1385.2	1357.6	1338.9	1321.2	1313.5
50°	6020.0	4904.8	2322.9	1308.0	1303.6	1362.0	1381.9	1371.9	1360.9	1355.4	1348.8
52.5°	6469.6	5107.6	2166.4	1208.8	1240.8	1315.7	1383.0	1390.7	1390.7	1387.4	1383.0
55°	6773.7	5248.6	2007.8	1128.4	1176.9	1278.3	1380.7	1410.5	1421.5	1417.1	1412.7
57.5°	6998.5	5325.7	1808.3	1059.0	1122.9	1241.9	1368.6	1412.7	1423.7	1429.2	1427.0
60°	7044.8	5254.1	1547.1	986.2	1064.5	1189.0	1324.5	1379.6	1394.0	1428.1	1431.4
62.5°	6836.5	5033.7	1287.1	914.6	992.9	1108.6	1265.0	1342.2	1370.8	1423.7	1429.2
64°	6580.9	4786.9	1142.7	869.4	946.6	1063.4	1235.3	1332.3	1369.7	1440.3	1444.7
65°	6393.5	4607.3	1052.4	840.8	916.8	1033.6	1218.8	1335.6	1379.6	1465.6	1472.2
67.5°	5703.7	3989.1	870.5	773.6	846.3	982.9	1222.1	1363.1	1377.4	1475.5	1474.4
70°	4719.7	3175.8	729.5	711.9	778.0	942.2	1208.8	1319.0	1320.1	1385.2	1369.7
72.5°	3534.0	2347.2	632.5	647.9	701.9	845.2	1141.6	1259.5	1240.8	1249.6	1234.2
75°	2427.6	1552.7	544.4	579.6	622.6	747.1	1046.9	1143.8	1114.1	1103.1	1092.0
77.5°	1295.9	858.4	452.9	512.4	541.1	645.7	913.5	1007.2	976.3	933.4	919.0
80°	524.5	404.4	364.7	424.3	440.8	520.1	760.3	818.8	795.6	720.7	696.4
82.5°	263.4	242.4	286.5	333.9	335.0	371.4	565.3	620.4	568.6	477.1	456.2
85°	137.7	142.2	197.2	234.7	207.2	200.6	339.4	375.8	344.9	299.7	270.0
87.5°	49.6	57.3	103.6	102.5	72.7	38.6	74.9	36.4	19.8	12.1	15.4
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)