

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: P458104

Luminaire Tested: **GALN-SA9C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53185 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

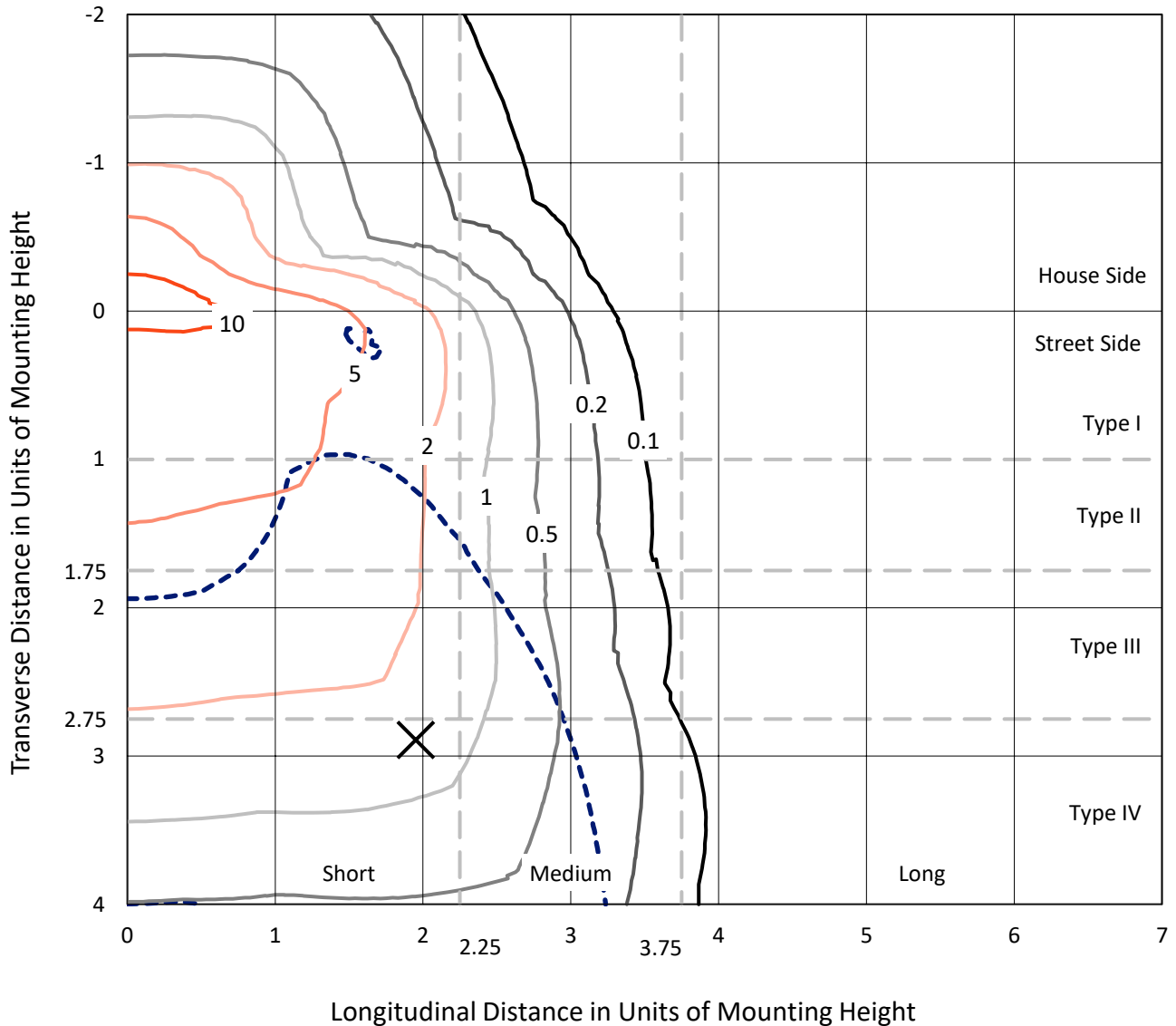
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458104
 CATALOG NUMBER: GALN-SA9C-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

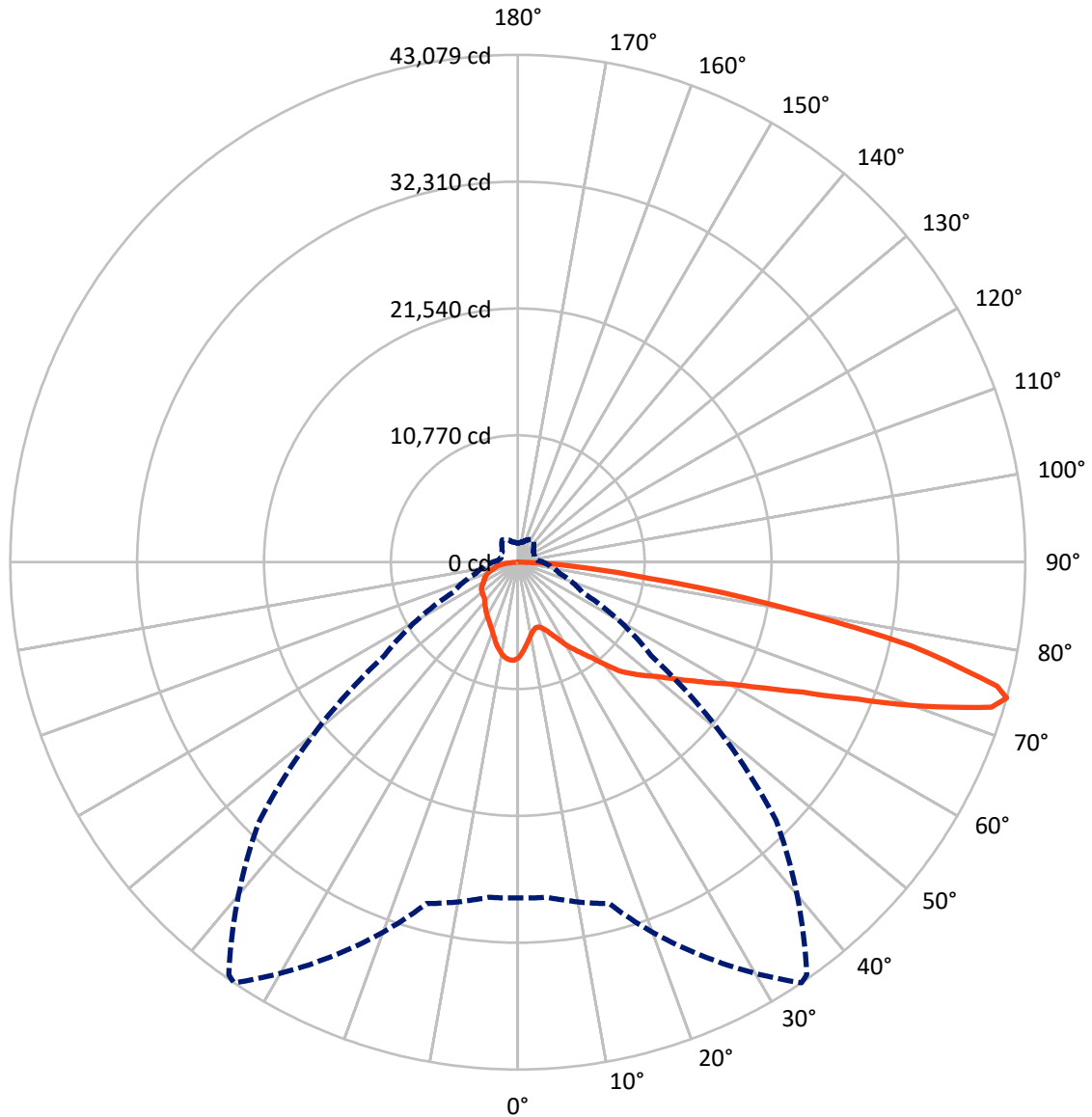
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

REPORT NUMBER: P458104
CATALOG NUMBER: GALN-SA9C-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458104

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11318.1	0.0	11318.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	41866.8	0.0	41866.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	53185.0	0.0	53185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.5	1.4
10°-20°	2021.6	3.8
20°-30°	3333.1	6.3
30°-40°	4992.7	9.4
40°-50°	7258.0	13.6
50°-60°	10137.7	19.1
60°-70°	12691.8	23.9
70°-80°	10495.1	19.7
80°-90°	1516.5	2.9
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°	53185.0	100.0
0°-180°	53185.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458104

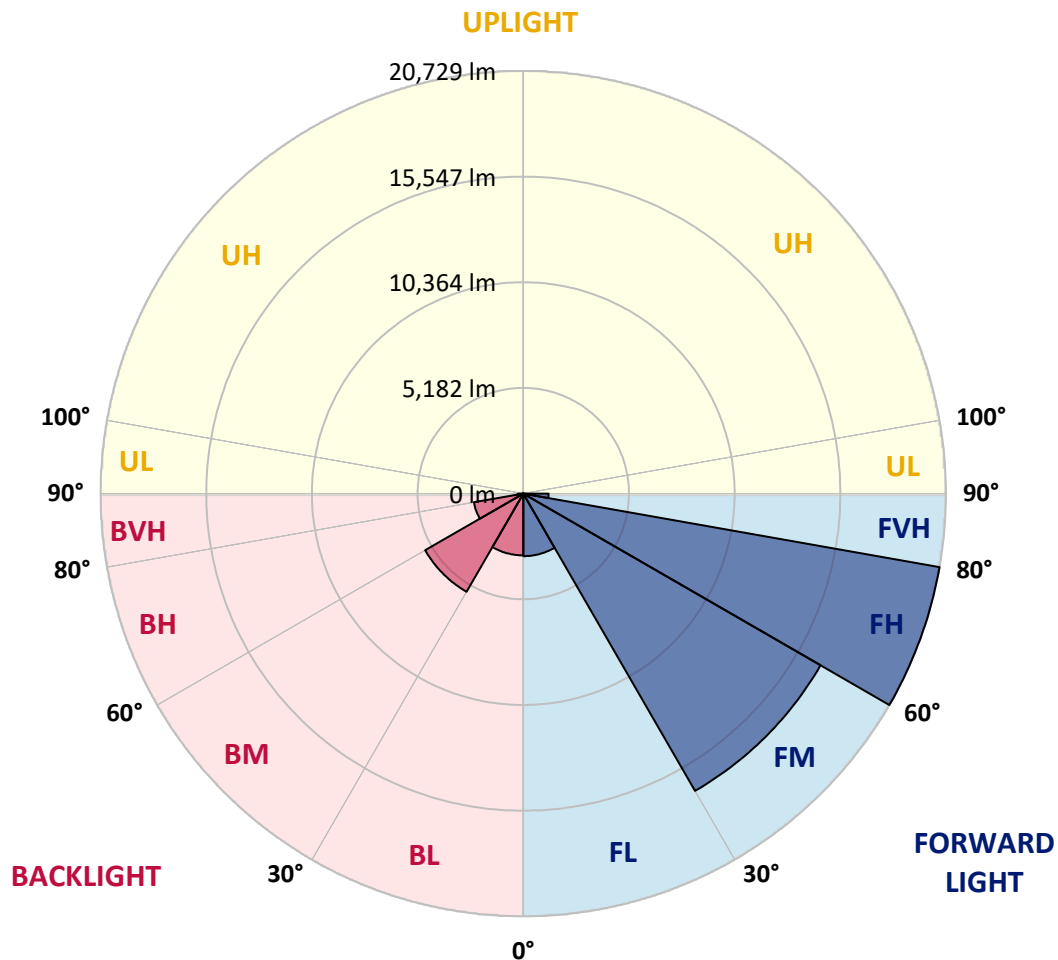
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3065.9	5.8			
FM	(30°-60°)	16829.9	31.6			
FH	(60°-80°)	20728.7	39.0			G5
FVH	(80°-90°)	1242.3	2.3			G5
BL	(0°-30°)	3027.4	5.7	B4/5000		
BM	(30°-60°)	5558.4	10.5	B4/8500		
BH	(60°-80°)	2458.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	274.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P458104
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3
2.5°	7504.5	7542.8	7563.4	7637.1	7654.8	7678.3	7740.2	7822.7	7928.8	8023.1	8105.6
5°	6879.9	6938.8	6974.1	7039.0	7165.7	7177.4	7342.4	7531.0	7746.1	7946.5	8111.5
7.5°	6287.6	6352.5	6381.9	6499.8	6667.7	6694.2	6935.8	7233.4	7592.9	7896.4	8149.8
10°	5842.7	5875.1	5940.0	6028.3	6228.7	6246.4	6561.6	6959.4	7424.9	7872.8	8214.6
12.5°	5601.1	5618.8	5633.5	5727.8	5925.2	5951.7	6281.7	6732.5	7292.4	7890.5	8320.7
15°	5636.5	5642.4	5577.5	5595.2	5754.3	5792.6	6119.7	6582.3	7209.9	7934.7	8479.8
17.5°	5934.1	5913.4	5754.3	5671.8	5783.8	5801.5	6087.3	6523.3	7171.6	8017.2	8644.8
20°	6402.5	6373.1	6099.1	5916.4	5981.2	5995.9	6193.3	6567.5	7209.9	8152.7	8901.1
22.5°	6985.9	6974.1	6558.7	6337.7	6334.8	6334.8	6437.9	6726.6	7324.8	8338.3	9169.2
25°	7802.1	7740.2	7198.1	6912.3	6832.7	6826.8	6815.0	6988.9	7472.1	8535.7	9487.4
27.5°	8638.9	8532.8	8049.6	7610.6	7439.7	7419.1	7342.4	7360.1	7660.7	8759.7	9849.8
30°	9390.2	9322.4	8868.7	8382.5	8179.2	8132.1	7919.9	7822.7	7975.9	9163.3	10427.3
32.5°	9964.7	9923.5	9569.9	9128.0	8827.4	8818.6	8509.2	8429.7	8468.0	9652.4	11087.3
35°	10430.3	10445.0	10265.3	9882.2	9537.5	9487.4	9281.2	9181.0	9069.0	10359.6	11918.2
37.5°	11066.7	11099.1	11087.3	10757.3	10336.0	10347.8	10300.6	10135.6	9838.1	11149.2	12840.4
40°	11767.9	11791.5	11788.6	11661.9	11440.9	11452.7	11435.0	11246.4	10801.5	12153.9	13865.8
42.5°	12737.3	12625.4	12333.7	12460.4	12590.0	12646.0	12766.8	12587.1	11977.1	13226.4	14829.3
45°	13821.6	13609.5	12949.5	13008.4	13488.7	13594.7	14260.6	14013.1	13252.9	14458.0	15963.6
47.5°	14505.2	14296.0	13739.1	13727.3	14363.7	14466.9	15645.4	15554.1	14413.8	15786.8	17348.4
50°	15115.1	15085.6	14458.0	14608.3	15230.0	15383.2	17154.0	17068.5	15571.8	17354.3	18857.0
52.5°	16019.6	15781.0	15280.1	15589.4	16411.5	16611.8	18650.8	18400.3	16635.4	18739.1	20321.4
55°	16426.2	16370.2	16340.8	16608.9	17737.4	17881.7	20106.3	19531.7	17542.9	19911.8	21435.1
57.5°	17513.4	17410.3	17702.0	17884.7	19299.0	19519.9	21626.6	20713.2	18338.4	20842.9	21977.2
60°	18921.8	18865.8	19134.0	19464.0	21043.2	21379.1	23359.1	21720.9	18977.8	21311.4	21679.7
62.5°	21025.6	21019.7	20969.6	21676.7	23515.3	23824.6	25347.9	22702.1	19078.0	20960.7	20141.6
65°	24042.7	23936.6	23500.5	24272.5	26591.3	26953.7	27419.3	23250.1	18474.0	19160.5	16959.5
67.5°	27198.3	27192.4	26838.8	27840.6	31008.0	31382.2	30009.2	23129.3	16797.5	15521.7	12044.9
70°	29814.7	29688.0	30138.8	32808.2	36650.4	37083.5	32274.9	21706.2	13379.6	10250.5	7156.8
72.5°	30442.3	30448.2	31385.1	36638.6	42068.8	42136.6	33091.1	17593.0	8954.1	5654.2	3579.9
74°	28509.4	28559.5	30012.1	36830.1	43079.4	42773.0	31005.0	13827.5	6054.9	3691.8	2581.1
75°	26022.7	25707.4	27808.2	35554.3	42030.5	41700.5	28562.5	11096.2	4620.0	2949.4	2259.9
77.5°	13912.9	14234.1	17475.1	26532.4	34145.9	33765.8	19366.7	5321.2	2495.6	2053.6	1626.4
80°	4952.9	5462.6	7678.3	13883.5	21891.8	22009.7	9242.9	2439.6	1756.1	1514.5	1149.1
82.5°	2021.2	2077.2	3297.0	6160.9	11116.8	11222.9	3774.3	1449.6	1255.2	1043.0	686.5
85°	789.6	813.2	1458.5	2769.6	4743.7	5053.1	1305.3	766.1	772.0	598.1	350.6
87.5°	265.2	300.5	598.1	922.2	1611.7	1579.3	380.1	226.9	277.0	259.3	109.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458104
 CATALOG NUMBER: GALN-SA9C-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3
2.5°	8146.8	8202.8	8241.1	8282.4	8320.7	8332.4	8323.6	8350.1	8353.1	8356.0	8359.0
5°	8194.0	8270.6	8344.2	8385.5	8403.2	8388.4	8338.3	8311.8	8288.2	8270.6	8276.5
7.5°	8258.8	8367.8	8435.6	8453.2	8406.1	8338.3	8214.6	8117.4	8055.5	8014.2	8011.3
10°	8359.0	8465.0	8521.0	8470.9	8341.3	8176.3	7981.8	7799.1	7660.7	7619.4	7616.5
12.5°	8485.7	8606.5	8603.5	8456.2	8229.3	7934.7	7619.4	7407.3	7218.7	7124.4	7162.7
15°	8650.7	8742.0	8656.5	8391.4	8031.9	7628.2	7239.3	6950.6	6738.4	6638.3	6644.1
17.5°	8842.2	8921.7	8694.8	8276.5	7754.9	7236.4	6785.6	6511.6	6343.6	6270.0	6264.1
20°	9080.8	9104.4	8694.8	8076.1	7398.4	6779.7	6349.5	6158.0	6063.7	6025.4	6037.2
22.5°	9337.2	9290.0	8647.7	7793.2	6929.9	6302.4	6013.6	5928.2	5881.0	5875.1	5881.0
25°	9625.9	9493.3	8550.5	7410.2	6440.8	5889.9	5721.9	5736.7	5745.5	5745.5	5766.1
27.5°	9979.5	9714.3	8388.4	6927.0	5869.2	5506.8	5459.7	5562.8	5610.0	5618.8	5633.5
30°	10445.0	9955.9	8120.3	6323.0	5383.1	5162.1	5244.6	5383.1	5436.1	5468.5	5462.6
32.5°	10998.9	10221.1	7757.9	5719.0	4991.2	4920.5	5020.7	5162.1	5221.0	5238.7	5215.1
35°	11650.1	10521.6	7280.6	5153.3	4649.4	4690.7	4808.5	4852.7	4905.8	4905.8	4917.6
37.5°	12351.3	10763.2	6697.2	4634.7	4384.3	4534.5	4620.0	4578.7	4555.1	4525.7	4540.4
40°	13064.4	10943.0	5940.0	4122.0	4119.1	4372.5	4396.0	4278.2	4183.9	4154.4	4139.7
42.5°	13686.1	11054.9	5256.4	3724.3	3868.6	4213.4	4231.0	4042.5	3892.2	3803.8	3774.3
45°	14419.7	11184.6	4587.6	3394.3	3635.9	4086.7	4130.9	3877.5	3656.5	3470.9	3423.7
47.5°	15424.4	11479.2	4060.1	3137.9	3467.9	4007.1	4069.0	3741.9	3450.2	3208.6	3170.3
50°	16558.8	11882.9	3650.6	2964.1	3338.3	3936.4	4013.0	3603.5	3258.7	2990.6	2961.1
52.5°	17598.9	12100.9	3297.0	2807.9	3211.6	3806.8	3939.3	3503.3	3070.2	2772.6	2746.1
55°	18167.5	11747.3	2949.4	2654.7	3037.7	3638.8	3836.2	3364.8	2887.5	2657.7	2619.4
57.5°	18244.2	11016.6	2634.1	2489.7	2855.1	3432.6	3644.7	3196.9	2769.6	2578.1	2545.7
60°	17651.9	9926.4	2389.5	2354.2	2669.4	3199.8	3429.6	3049.5	2648.8	2489.7	2457.3
62.5°	16178.7	8742.0	2218.6	2230.4	2480.9	2955.2	3270.5	2908.1	2533.9	2392.5	2363.0
65°	13644.8	7215.8	2053.6	2103.7	2312.9	2763.7	3126.1	2790.2	2419.0	2318.8	2292.3
67.5°	9478.6	5209.2	1918.1	1971.1	2153.8	2569.3	2958.2	2663.6	2289.4	2236.3	2195.1
70°	5247.6	3205.7	1759.0	1820.9	1988.8	2351.2	2769.6	2472.0	2100.8	2077.2	2018.3
72.5°	2757.8	2041.9	1579.3	1647.0	1764.9	2071.3	2480.9	2262.8	1915.2	1815.0	1738.4
74°	2153.8	1673.6	1458.5	1529.2	1608.7	1906.3	2310.0	2112.6	1782.6	1664.7	1605.8
75°	1876.9	1490.9	1355.3	1446.7	1517.4	1794.4	2177.4	2006.5	1708.9	1597.0	1543.9
77.5°	1325.9	1116.7	1107.8	1216.9	1255.2	1573.4	1962.3	1826.8	1523.3	1405.4	1355.3
80°	931.1	836.8	878.0	945.8	998.8	1390.7	1820.9	1579.3	1249.3	1110.8	1093.1
82.5°	607.0	548.0	627.6	689.5	707.1	1025.3	1470.3	1199.2	910.4	739.5	686.5
85°	279.9	274.0	359.5	350.6	347.7	500.9	872.1	701.2	524.5	391.9	368.3
87.5°	70.7	67.8	88.4	73.7	88.4	76.6	79.6	20.6	2.9	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)