

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: P950937

Luminaire Tested: **GALN-SB5B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21965 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 182.7
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

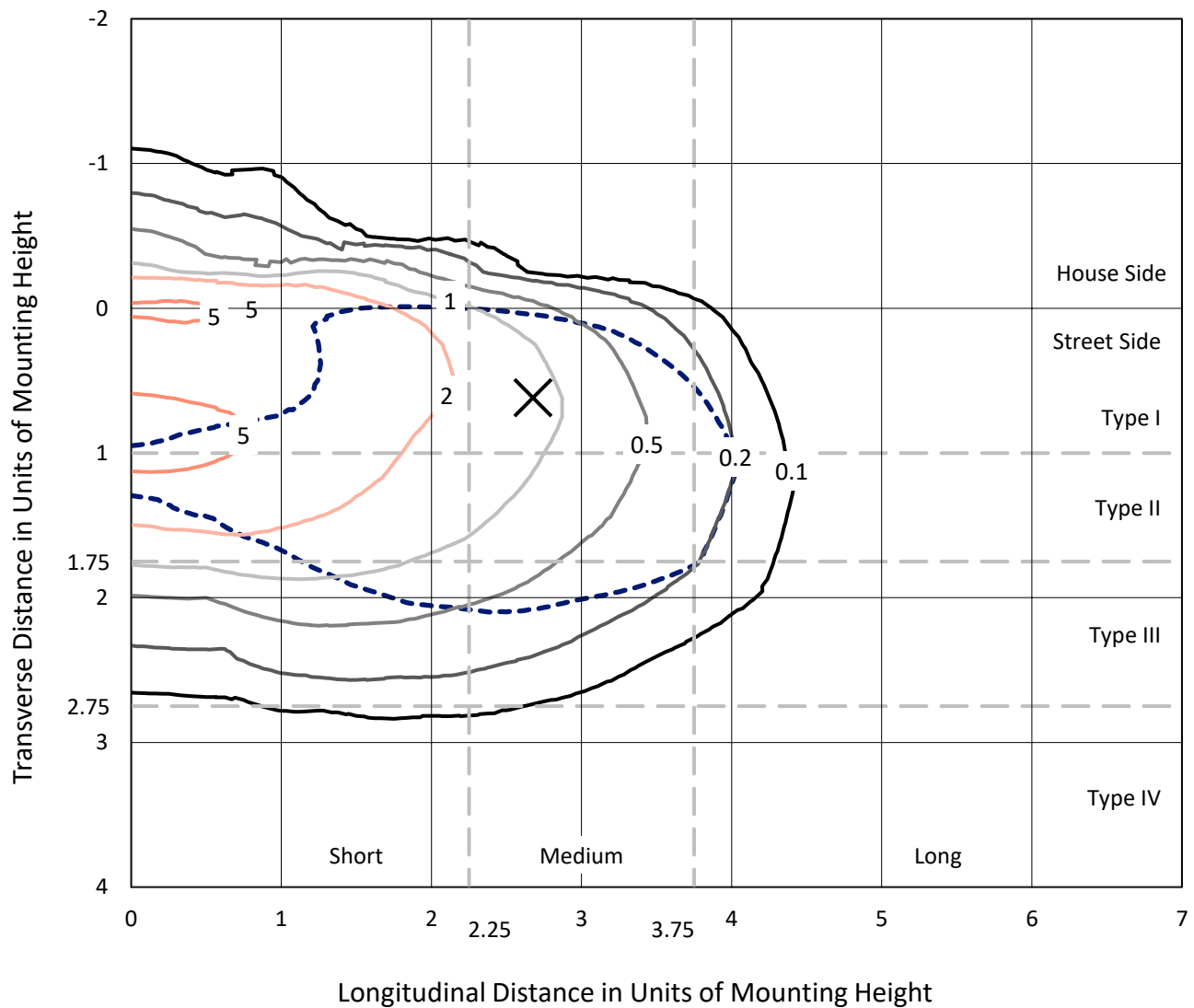


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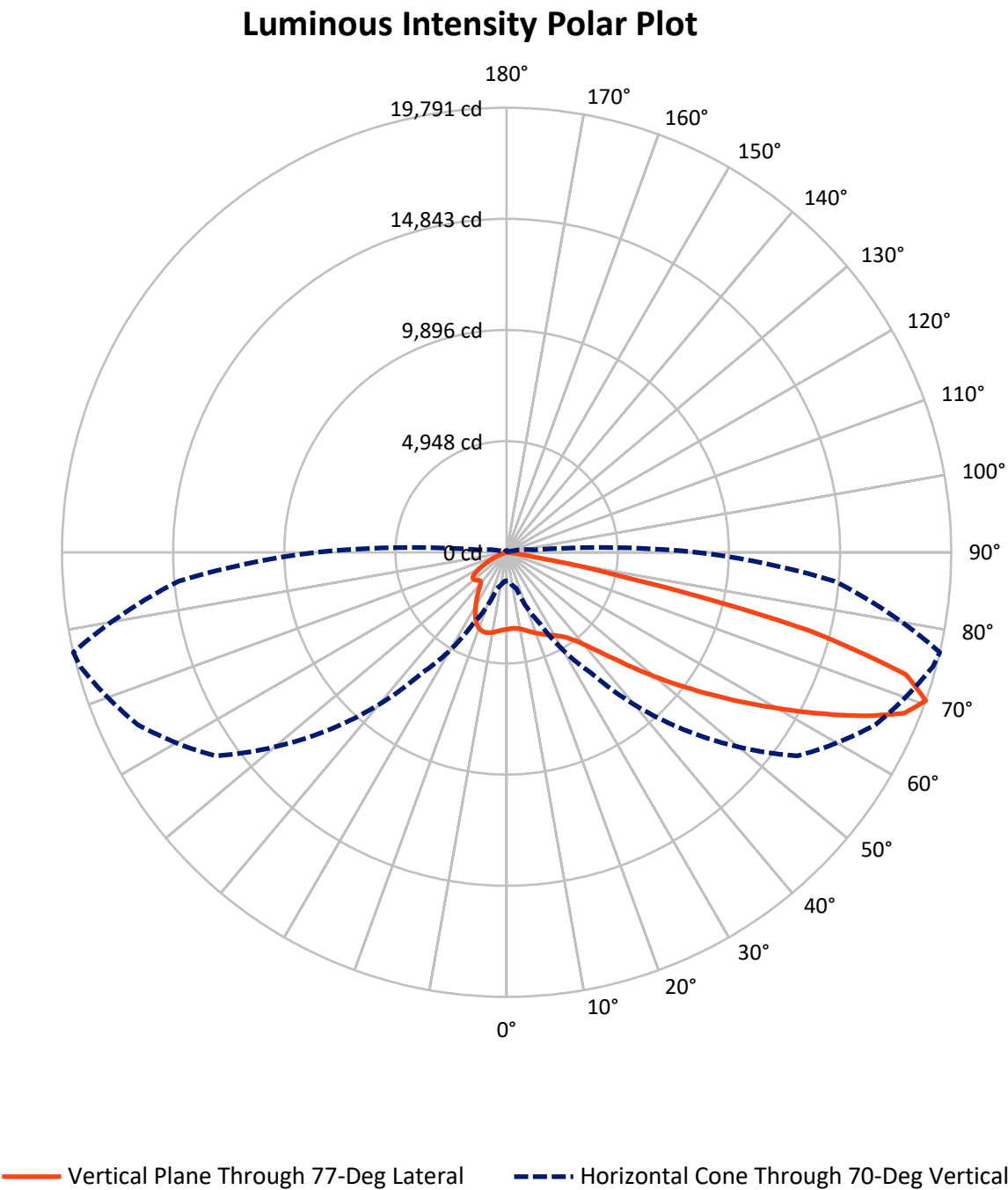
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.4	0.0	2315.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19649.6	0.0	19649.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	21965.0	0.0	21965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.3
10°-20°	701.0	3.2
20°-30°	1084.2	4.9
30°-40°	1967.3	9.0
40°-50°	3713.6	16.9
50°-60°	5365.8	24.4
60°-70°	5711.7	26.0
70°-80°	3026.8	13.8
80°-90°	99.4	0.5
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°	21965.0	100.0
0°-180°	21965.0	100.0

Coefficient of Utilization



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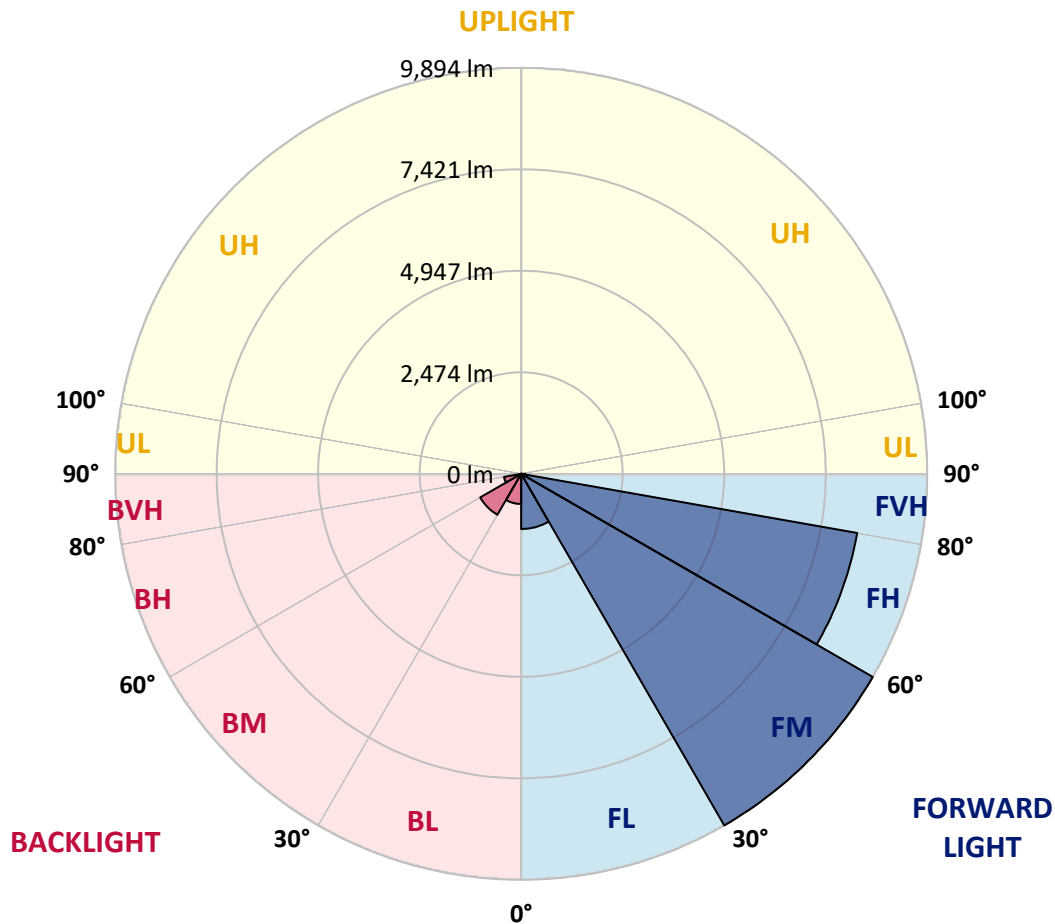
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1344.8	6.1			
FM	(30°-60°)	9894.0	45.0			
FH	(60°-80°)	8314.1	37.9			G4/12000
FVH	(80°-90°)	96.7	0.4			G1/100
BL	(0°-30°)	735.7	3.3	B2/1000		
BM	(30°-60°)	1152.6	5.2	B2/2500		
BH	(60°-80°)	424.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1
2.5°	3216.7	3245.8	3241.7	3261.1	3268.0	3295.8	3323.5	3360.9	3402.6	3401.2	3428.9
5°	3035.0	3064.1	3071.0	3097.4	3130.7	3173.7	3230.6	3305.5	3383.1	3395.6	3451.1
7.5°	2820.0	2850.5	2868.5	2921.2	2982.3	3071.0	3164.0	3273.6	3402.6	3420.6	3527.4
10°	2605.0	2632.7	2656.3	2731.2	2828.3	2960.1	3111.3	3269.4	3442.8	3469.1	3620.3
12.5°	2471.8	2498.2	2524.5	2589.7	2710.4	2871.3	3076.6	3288.8	3509.4	3546.8	3746.6
15°	2424.7	2448.2	2469.0	2527.3	2639.7	2822.8	3069.7	3329.0	3594.0	3643.9	3899.1
17.5°	2431.6	2444.1	2457.9	2502.3	2611.9	2800.6	3082.1	3398.4	3693.9	3738.2	4051.7
20°	2471.8	2478.8	2480.1	2510.7	2607.8	2797.8	3107.1	3465.0	3788.2	3847.8	4202.9
22.5°	2523.1	2525.9	2523.1	2543.9	2634.1	2818.6	3140.4	3545.4	3893.6	3949.1	4355.5
25°	2763.1	2710.4	2643.8	2603.6	2678.5	2858.8	3190.3	3653.6	4008.7	4062.8	4503.9
27.5°	3508.0	3356.8	3118.2	2850.5	2770.0	2917.1	3259.7	3763.2	4125.2	4173.8	4663.4
30°	4717.5	4519.2	4114.1	3510.8	3064.1	3039.1	3349.9	3872.8	4248.7	4301.4	4834.1
32.5°	5929.9	5881.3	5413.9	4578.8	3725.8	3311.0	3499.7	4021.2	4412.4	4454.0	5064.3
35°	7156.1	7057.6	6674.7	5849.4	4745.3	3864.5	3749.3	4215.4	4627.4	4674.5	5400.0
37.5°	8095.1	8035.5	7798.3	7118.6	5954.8	4718.9	4176.6	4516.4	4939.5	4992.2	5830.0
40°	8924.6	8896.9	8816.4	8368.4	7307.3	5836.9	4841.0	4982.5	5372.2	5434.7	6357.1
42.5°	9576.6	9641.7	9687.5	9562.7	8701.3	7113.1	5734.3	5637.2	5975.6	6039.4	7028.4
45°	10243.8	10265.9	10450.4	10630.8	10085.6	8447.5	6741.3	6404.3	6726.1	6805.1	7833.0
47.5°	10672.4	10761.1	11085.7	11403.4	11249.4	9770.8	7823.3	7310.0	7595.8	7744.2	8734.6
50°	10704.3	10872.1	11318.8	11872.2	12096.9	11030.2	8999.5	8342.0	8645.8	8809.5	9697.2
52.5°	10173.0	10433.8	11125.9	11936.0	12554.7	12096.9	10216.0	9374.0	9763.8	9977.4	10695.9
55°	7799.7	8140.9	10400.5	11589.2	12572.7	12905.6	11400.6	10449.0	11009.4	11250.8	11775.1
57.5°	6795.4	6967.4	8177.0	10987.2	12238.4	13231.6	12471.4	11472.7	12364.6	12664.2	12794.6
60°	5653.8	5879.9	6857.8	10002.4	11784.8	13263.5	13417.4	12793.2	13833.6	14170.6	13729.5
62.5°	3842.3	4087.8	5060.2	8310.1	11164.8	13248.2	14192.8	14152.6	15466.2	15828.2	14521.6
65°	2380.3	2534.2	3175.1	6785.7	10297.8	13264.9	15004.3	15803.3	17189.0	17556.6	15134.7
67.5°	1880.9	1951.7	2285.9	5210.0	8803.9	12890.3	15814.4	17355.4	18810.5	19101.8	15321.9
70°	1263.7	1306.7	1663.1	3492.7	6549.9	11162.0	15799.1	18135.0	19645.5	19791.2	14639.5
72.5°	665.8	699.1	972.4	1617.4	3956.0	7934.2	13317.6	17202.8	18814.7	18595.5	12513.1
75°	332.9	388.4	654.7	821.2	1689.5	4424.9	8269.9	13563.1	14808.7	13959.8	8028.5
77.5°	252.5	305.2	541.0	541.0	588.1	1489.7	3502.4	7397.4	6823.2	5681.6	2356.7
80°	160.9	208.1	473.0	409.2	245.5	378.7	912.7	2072.3	1449.5	1102.7	428.6
82.5°	94.3	135.9	393.9	270.5	137.3	140.1	258.0	441.1	375.9	292.7	131.8
85°	37.5	88.8	270.5	106.8	54.1	34.7	77.7	94.3	77.7	58.3	33.3
87.5°	0.0	20.8	47.2	0.0	4.2	2.8	5.5	6.9	6.9	5.5	11.1
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°	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1
2.5°	3441.4	3444.2	3452.5	3453.9	3434.5	3409.5	3399.8	3395.6	3379.0	3377.6	3380.4
5°	3483.0	3495.5	3483.0	3446.9	3360.9	3240.3	3148.7	3073.8	3005.9	2985.0	2972.6
7.5°	3566.2	3578.7	3541.3	3399.8	3183.4	2943.4	2727.0	2574.5	2437.1	2385.8	2365.0
10°	3685.5	3702.2	3584.3	3298.5	2915.7	2530.1	2163.9	1905.9	1704.7	1622.9	1588.2
12.5°	3835.3	3842.3	3607.9	3144.6	2567.5	2016.8	1498.1	1222.0	1043.1	976.5	955.7
15°	4000.4	3990.7	3610.6	2935.1	2093.1	1425.9	977.9	803.1	731.0	708.8	708.8
17.5°	4173.8	4133.6	3555.1	2632.7	1573.0	975.1	725.5	683.8	671.4	665.8	664.4
20°	4344.4	4254.2	3453.9	2237.4	1129.1	728.2	658.9	646.4	639.5	636.7	633.9
22.5°	4499.8	4345.8	3280.5	1778.3	819.8	643.6	622.8	611.7	599.2	593.7	592.3
25°	4651.0	4398.5	3036.4	1349.7	656.1	602.0	585.4	564.6	547.9	541.0	538.2
27.5°	4798.0	4431.8	2731.2	998.7	585.4	563.2	532.6	503.5	491.0	488.3	485.5
30°	4954.7	4442.9	2384.4	744.9	542.4	514.6	470.2	436.9	430.0	431.4	431.4
32.5°	5146.2	4459.5	2034.9	610.3	506.3	456.4	403.6	369.0	363.4	369.0	367.6
35°	5375.0	4492.8	1697.8	561.8	474.4	396.7	339.8	310.7	305.2	309.3	307.9
37.5°	5685.7	4546.9	1382.9	552.1	448.0	346.8	285.7	262.2	262.2	263.5	262.2
40°	6099.1	4691.2	1101.4	545.1	434.2	309.3	241.4	231.6	235.8	238.6	238.6
42.5°	6602.6	4997.7	911.3	536.8	418.9	292.7	219.2	215.0	221.9	224.7	224.7
45°	7167.2	5386.1	844.7	522.9	405.0	303.8	209.5	203.9	212.2	213.6	215.0
47.5°	7751.1	5766.2	836.4	507.7	391.2	320.4	206.7	194.2	203.9	205.3	206.7
50°	8342.0	6014.5	844.7	484.1	369.0	320.4	208.1	184.5	192.8	197.0	198.4
52.5°	8937.1	6128.2	839.2	432.8	330.1	301.0	208.1	176.2	184.5	187.3	187.3
55°	9514.1	6106.0	754.6	356.5	280.2	266.3	202.5	169.2	174.8	176.2	176.2
57.5°	9970.5	5796.7	597.8	277.4	227.5	221.9	184.5	160.9	165.1	163.7	163.7
60°	10209.1	5117.0	427.2	213.6	178.9	174.8	162.3	149.8	152.6	145.6	144.3
62.5°	10211.8	4218.2	285.7	169.2	142.9	138.7	138.7	134.5	131.8	117.9	113.7
65°	9994.1	3220.9	190.0	134.5	115.1	108.2	116.5	115.1	105.4	86.0	83.2
67.5°	9500.3	2111.2	144.3	105.4	88.8	84.6	92.9	97.1	90.2	72.1	70.7
70°	8484.9	1229.0	119.3	81.8	66.6	62.4	74.9	83.2	74.9	58.3	55.5
72.5°	7047.9	663.0	97.1	61.0	45.8	41.6	59.6	68.0	59.6	43.0	41.6
75°	4573.3	355.1	74.9	40.2	23.6	26.4	44.4	49.9	41.6	27.7	25.0
77.5°	1535.5	156.7	47.2	19.4	11.1	11.1	26.4	30.5	19.4	9.7	8.3
80°	342.6	65.2	19.4	8.3	4.2	4.2	5.5	5.5	2.8	0.0	0.0
82.5°	112.4	26.4	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)