

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: STREETWORKS

Report Number: P322239

Luminaire Tested: **GAN-SA5B-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20814 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

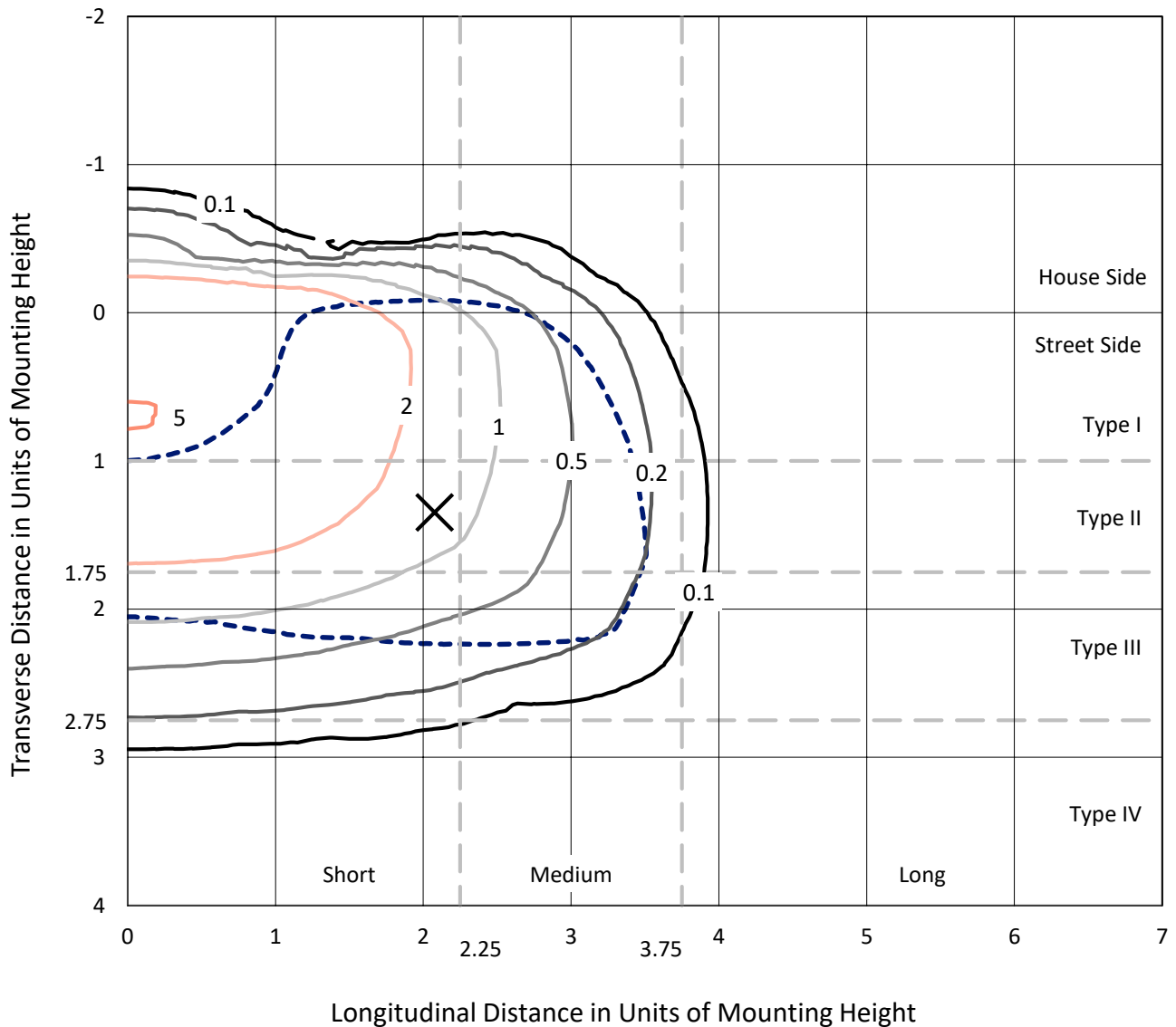
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

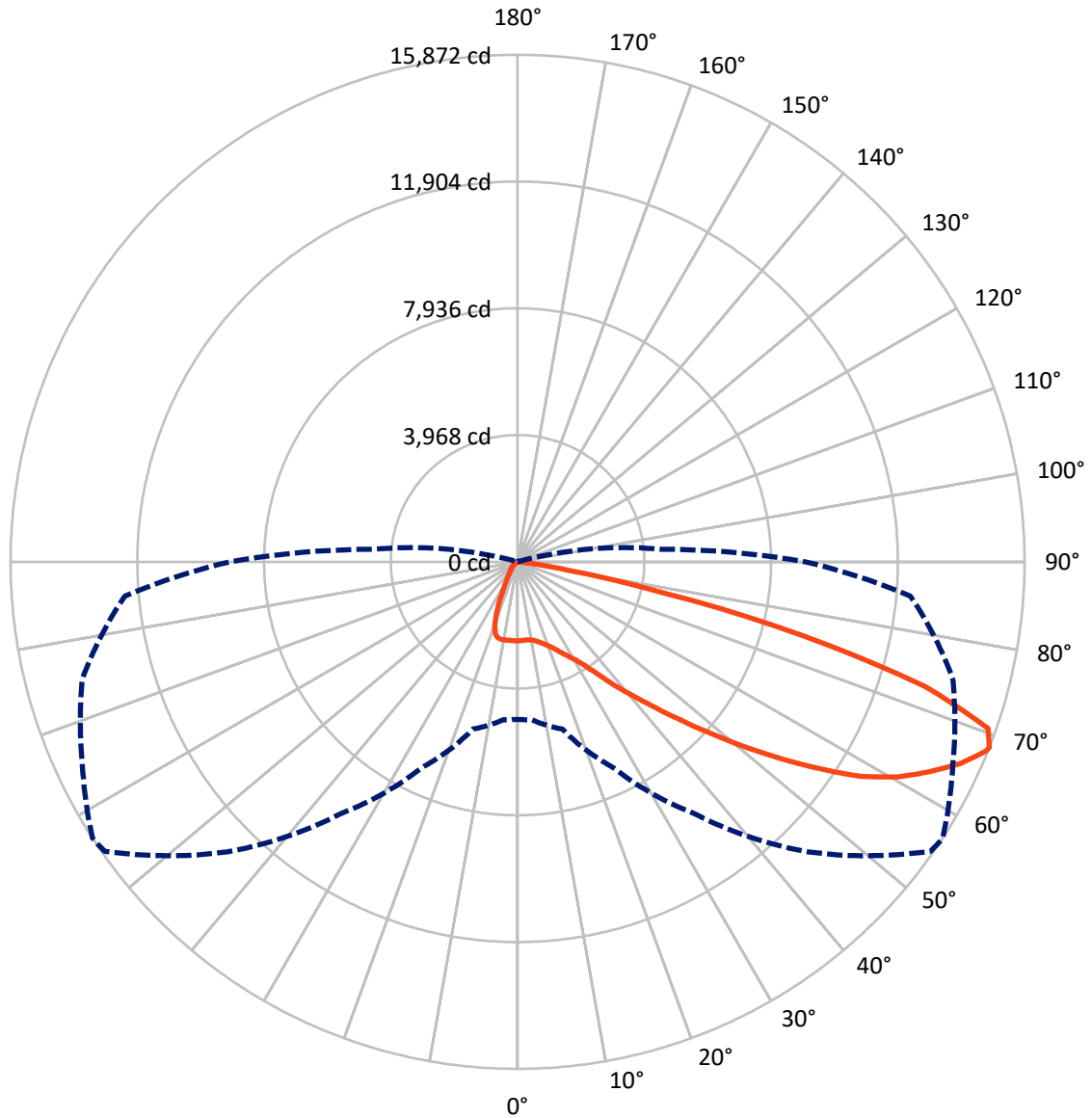
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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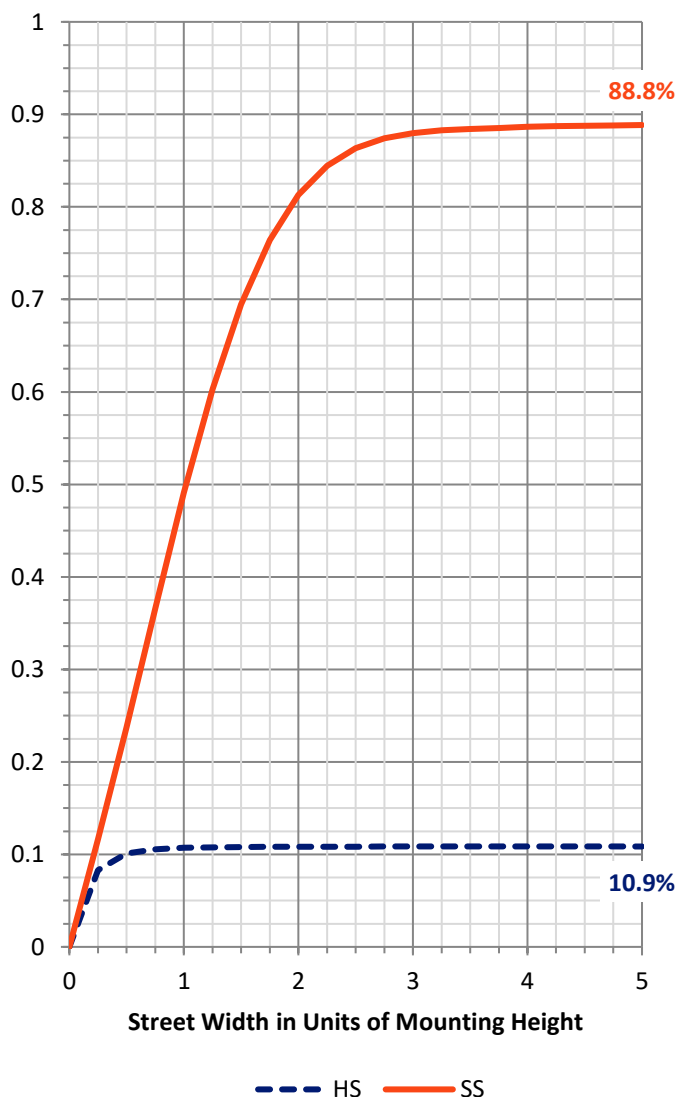
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.4	0.0	2282.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18531.6	0.0	18531.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	20814.0	0.0	20814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	1.1
10°-20°	641.4	3.1
20°-30°	1106.5	5.3
30°-40°	1909.7	9.2
40°-50°	3266.6	15.7
50°-60°	5226.2	25.1
60°-70°	6038.3	29.0
70°-80°	2307.3	11.1
80°-90°	86.5	0.4
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°	20814.0	100.0
0°-180°	20814.0	100.0

Coefficient of Utilization



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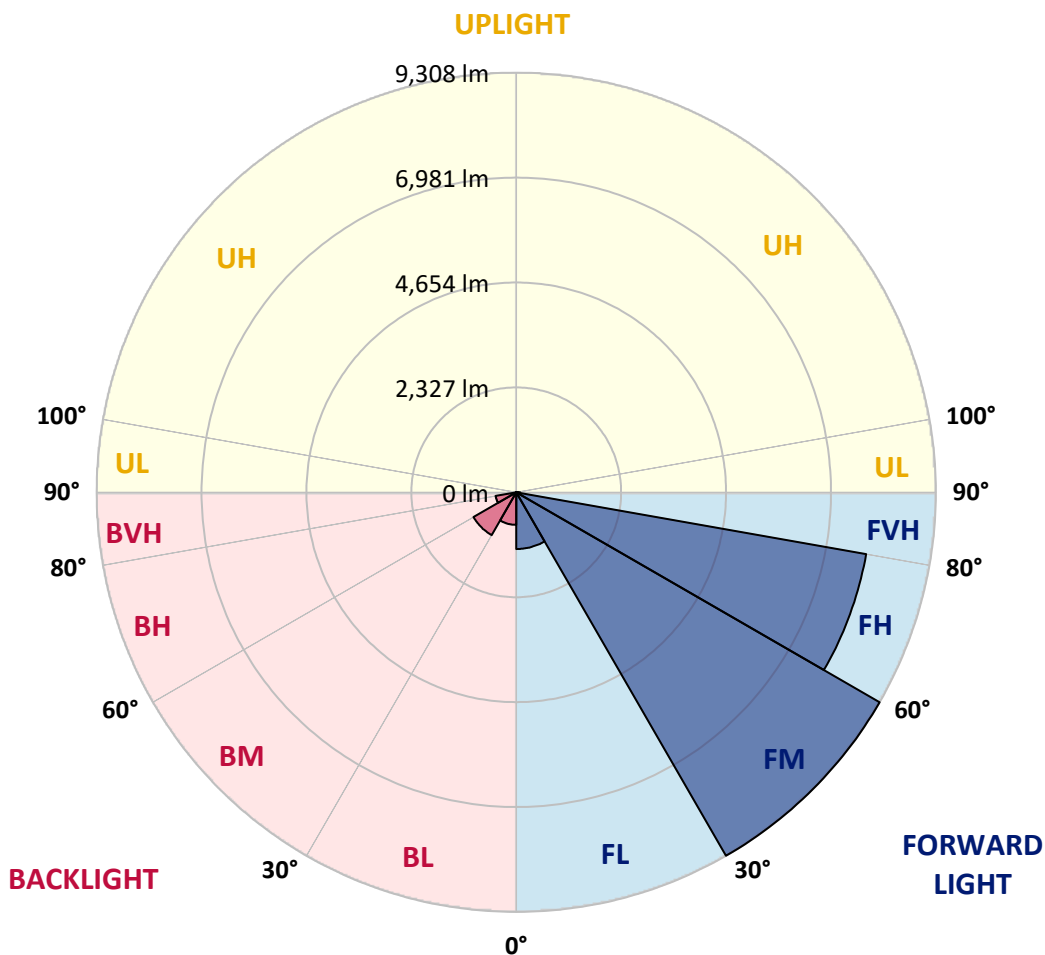
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.0	6.0			
FM (30°-60°)	9307.9	44.7			
FH (60°-80°)	7880.9	37.9			G4/12000
FVH (80°-90°)	84.9	0.4			G1/100
BL (0°-30°)	721.3	3.5	B2/1000		
BM (30°-60°)	1094.7	5.3	B2/2500		
BH (60°-80°)	464.8	2.2	B1/500		G1/500
BVH (80°-90°)	1.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3
2.5°	2415.2	2426.0	2433.9	2438.8	2444.7	2457.5	2461.4	2467.3	2470.3	2470.3	2477.2
5°	2319.7	2331.5	2348.3	2362.0	2389.6	2425.0	2450.6	2460.5	2478.2	2493.9	2502.8
7.5°	2231.1	2244.9	2264.6	2297.1	2344.3	2401.4	2454.6	2468.3	2502.8	2536.2	2553.0
10°	2174.1	2184.9	2210.5	2256.7	2318.7	2398.5	2473.3	2490.0	2549.0	2605.1	2636.6
12.5°	2154.4	2164.2	2190.8	2243.0	2319.7	2413.2	2516.6	2541.2	2627.8	2709.5	2753.7
15°	2182.9	2184.9	2213.4	2262.6	2338.4	2449.6	2588.4	2617.9	2727.2	2833.5	2888.6
17.5°	2293.1	2284.3	2299.1	2320.7	2380.7	2497.9	2664.2	2708.5	2854.1	2979.1	3031.3
20°	2568.7	2568.7	2535.3	2476.2	2477.2	2572.7	2766.5	2816.7	2994.9	3139.5	3186.8
22.5°	3040.1	3031.3	2964.4	2819.7	2686.8	2701.6	2891.5	2956.5	3164.1	3318.7	3334.4
25°	3607.0	3596.2	3492.9	3289.1	3058.8	2910.2	3060.8	3135.6	3365.9	3502.7	3470.2
27.5°	4207.4	4198.5	4096.2	3843.2	3515.5	3242.9	3262.6	3333.4	3571.6	3706.4	3603.1
30°	4789.0	4792.0	4690.6	4430.8	4059.8	3667.1	3518.5	3559.8	3771.4	3908.2	3760.6
32.5°	5342.1	5346.1	5258.5	4968.2	4621.7	4160.1	3872.8	3861.9	4003.7	4138.5	3969.2
35°	5835.2	5845.1	5785.0	5559.6	5192.5	4709.3	4332.4	4306.8	4333.4	4485.9	4289.1
37.5°	6310.6	6316.5	6271.2	6081.3	5774.2	5312.6	4913.0	4876.6	4819.5	4936.7	4711.3
40°	6831.2	6816.5	6764.3	6592.1	6328.3	5978.9	5537.0	5474.0	5374.6	5478.9	5266.4
42.5°	7315.4	7298.7	7307.6	7112.7	6890.3	6663.9	6264.3	6156.1	6098.0	6218.1	5947.4
45°	7920.7	7911.8	7941.4	7772.1	7592.0	7427.6	7097.9	6979.8	6954.2	7095.0	6771.2
47.5°	8518.1	8539.8	8631.3	8559.4	8486.6	8341.9	7980.7	7927.6	7943.3	8113.6	7640.2
50°	9016.1	9041.7	9292.7	9375.3	9480.6	9396.0	9033.8	9001.3	9063.3	9216.9	8575.2
52.5°	9376.3	9428.5	9740.5	10121.3	10505.2	10562.3	10201.1	10171.5	10255.2	10278.8	9297.6
55°	9626.3	9672.6	10025.9	10722.7	11504.1	11750.2	11525.8	11411.6	11395.9	11162.6	10057.4
57.5°	9670.6	9665.7	10173.5	11111.4	12287.5	12922.3	12780.6	12668.4	12345.6	11979.5	10928.4
60°	9420.6	9449.1	10038.7	11246.3	12779.6	13809.1	13819.9	13674.2	13171.3	12773.7	11772.8
62.5°	8651.0	8767.1	9362.5	10892.9	12773.7	14166.3	14581.7	14470.4	13869.1	13424.3	12629.0
65°	7403.0	7444.4	8012.2	9682.4	11910.6	14016.7	15267.6	15226.3	14498.0	14056.1	13069.0
67.5°	5406.1	5316.6	5913.0	7624.5	10083.9	13144.7	15759.7	15811.9	14983.2	14186.0	12600.5
68°	4933.7	4960.3	5424.8	7115.6	9605.6	12836.7	15792.2	15871.9	15031.4	14101.4	12344.6
70°	2940.7	2991.9	3406.3	4899.3	7307.6	11093.7	15441.8	15623.9	14744.0	13228.4	10677.4
72.5°	750.9	812.0	1203.7	2192.8	4173.9	7816.4	13035.5	13343.6	12801.3	10731.5	7208.2
75°	309.0	324.8	430.1	722.4	1555.0	3521.4	8591.9	9251.3	8874.4	6424.7	3257.6
77.5°	213.6	224.4	276.6	400.6	673.2	1193.8	4212.3	4688.6	4224.1	2192.8	710.6
80°	153.5	162.4	197.8	266.7	386.8	426.2	1372.9	1587.5	1260.7	481.3	176.2
82.5°	91.5	98.4	147.6	189.9	235.2	203.7	341.5	387.8	365.1	239.2	78.7
85°	45.3	53.1	99.4	135.8	127.0	85.6	104.3	116.1	143.7	145.7	42.3
87.5°	3.0	5.9	58.1	81.7	35.4	19.7	30.5	37.4	51.2	71.8	17.7
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°	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3
2.5°	2480.1	2481.1	2474.2	2471.3	2473.3	2461.4	2456.5	2458.5	2458.5	2461.4	2456.5
5°	2504.7	2504.7	2492.9	2477.2	2468.3	2445.7	2430.9	2427.0	2424.0	2422.1	2418.1
7.5°	2557.9	2552.0	2531.3	2496.9	2467.3	2418.1	2380.7	2361.1	2351.2	2347.3	2344.3
10°	2643.5	2632.7	2598.2	2534.3	2466.4	2378.8	2297.1	2239.0	2190.8	2171.1	2159.3
12.5°	2758.7	2742.9	2684.9	2578.6	2459.5	2298.1	2120.9	1950.7	1792.2	1727.2	1694.8
15°	2891.5	2868.9	2777.4	2616.0	2419.1	2116.0	1731.2	1433.0	1213.5	1130.8	1095.4
17.5°	3026.4	2996.8	2858.1	2639.6	2298.1	1739.1	1214.5	917.3	770.6	731.2	717.5
20°	3162.2	3118.9	2927.9	2621.9	2024.5	1253.8	801.1	670.2	627.9	616.1	612.2
22.5°	3291.1	3224.2	2990.9	2553.0	1603.2	841.5	633.8	592.5	578.7	571.8	569.8
25°	3403.3	3309.8	3046.0	2340.4	1134.8	635.8	570.8	557.0	539.3	526.5	527.5
27.5°	3508.6	3395.4	3079.5	1990.0	756.8	543.3	528.5	509.8	477.3	458.6	458.6
30°	3635.6	3509.6	3104.1	1531.4	557.0	480.3	468.5	439.9	395.6	371.0	371.0
32.5°	3826.5	3682.8	3088.4	1074.7	461.6	422.2	394.7	355.3	307.1	283.4	282.5
35°	4118.8	3950.5	2976.2	704.7	407.5	367.1	322.8	274.6	232.3	212.6	211.6
37.5°	4512.5	4308.8	2724.2	503.9	365.1	315.9	262.8	209.6	178.1	165.3	164.4
40°	5023.3	4725.1	2364.0	408.4	325.8	266.7	202.7	162.4	140.7	130.9	131.9
42.5°	5636.4	5170.9	1932.0	352.3	287.4	219.5	158.5	127.9	114.2	107.3	105.3
45°	6317.5	5610.8	1479.2	314.0	249.0	177.2	124.0	101.4	90.5	86.6	86.6
47.5°	7066.4	6038.9	1082.6	280.5	207.7	136.8	99.4	82.7	73.8	70.9	69.9
50°	7746.5	6336.2	780.5	245.1	170.3	108.3	80.7	68.9	63.0	59.1	59.1
52.5°	8313.4	6429.7	574.8	206.7	137.8	86.6	66.9	59.1	53.1	50.2	50.2
55°	8812.4	6391.3	427.1	170.3	111.2	70.9	57.1	50.2	45.3	42.3	42.3
57.5°	9290.7	6267.3	318.9	138.8	89.6	57.1	48.2	42.3	37.4	35.4	35.4
60°	9681.4	6060.6	237.2	112.2	71.8	46.3	40.4	34.4	30.5	27.6	27.6
62.5°	9998.3	5832.3	174.2	92.5	57.1	36.4	31.5	28.5	22.6	19.7	19.7
65°	10000.3	5453.4	130.9	76.8	44.3	28.5	23.6	22.6	14.8	11.8	10.8
67.5°	9276.9	4701.4	100.4	65.9	34.4	21.7	17.7	18.7	7.9	4.9	3.9
68°	9014.1	4510.5	94.5	65.0	32.5	20.7	16.7	18.7	6.9	3.9	3.0
70°	7599.9	3588.3	75.8	63.0	28.5	15.7	13.8	18.7	5.9	3.0	2.0
72.5°	4860.9	2082.5	56.1	50.2	21.7	11.8	8.9	16.7	5.9	2.0	1.0
75°	2068.8	645.6	38.4	35.4	12.8	8.9	5.9	10.8	3.9	1.0	0.0
77.5°	436.0	145.7	22.6	21.7	8.9	5.9	3.9	3.0	1.0	0.0	0.0
80°	112.2	42.3	11.8	10.8	4.9	3.0	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.0	1.0	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)