

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: P322950

Luminaire Tested: **GAN-SA6A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20201 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

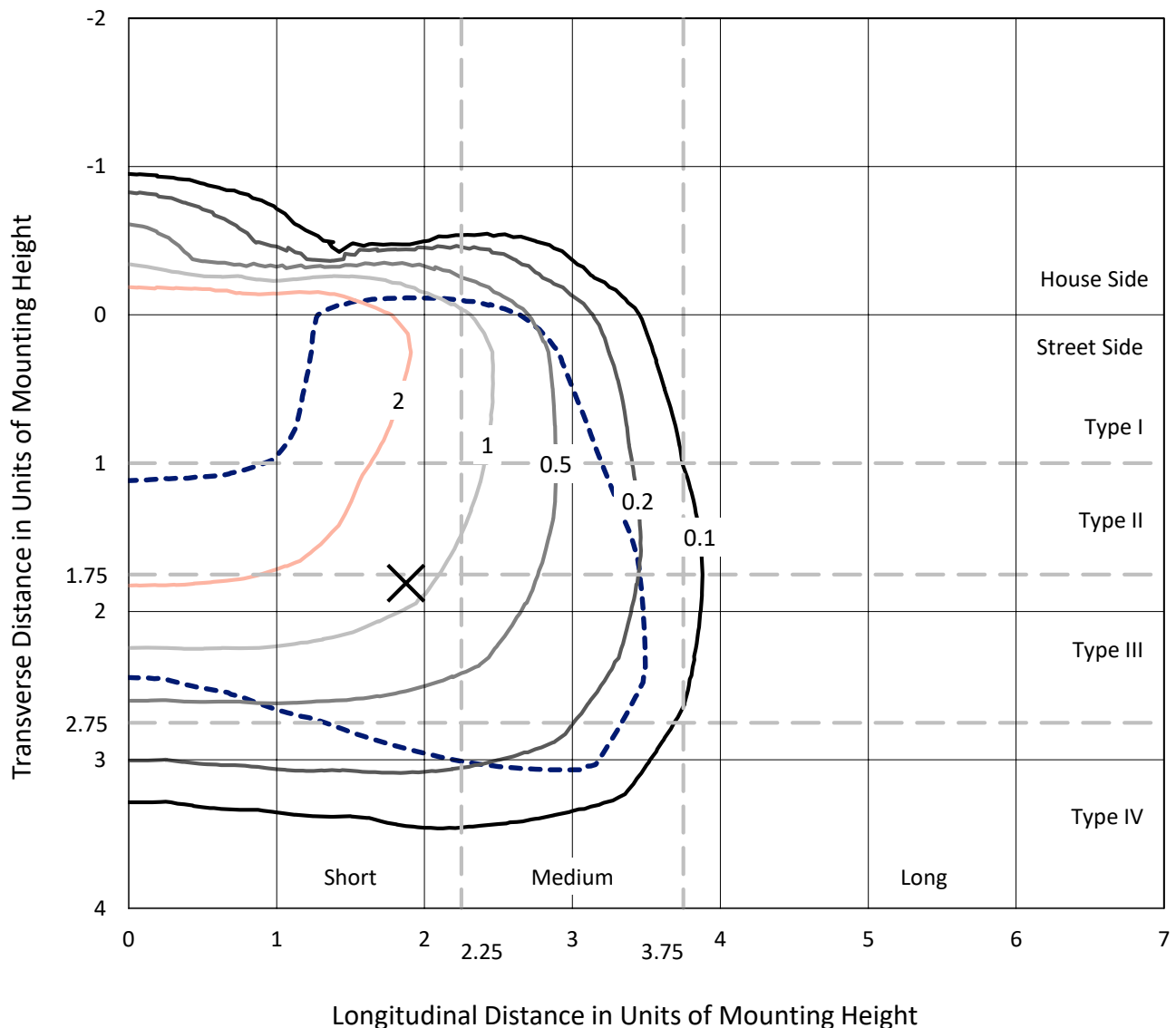
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

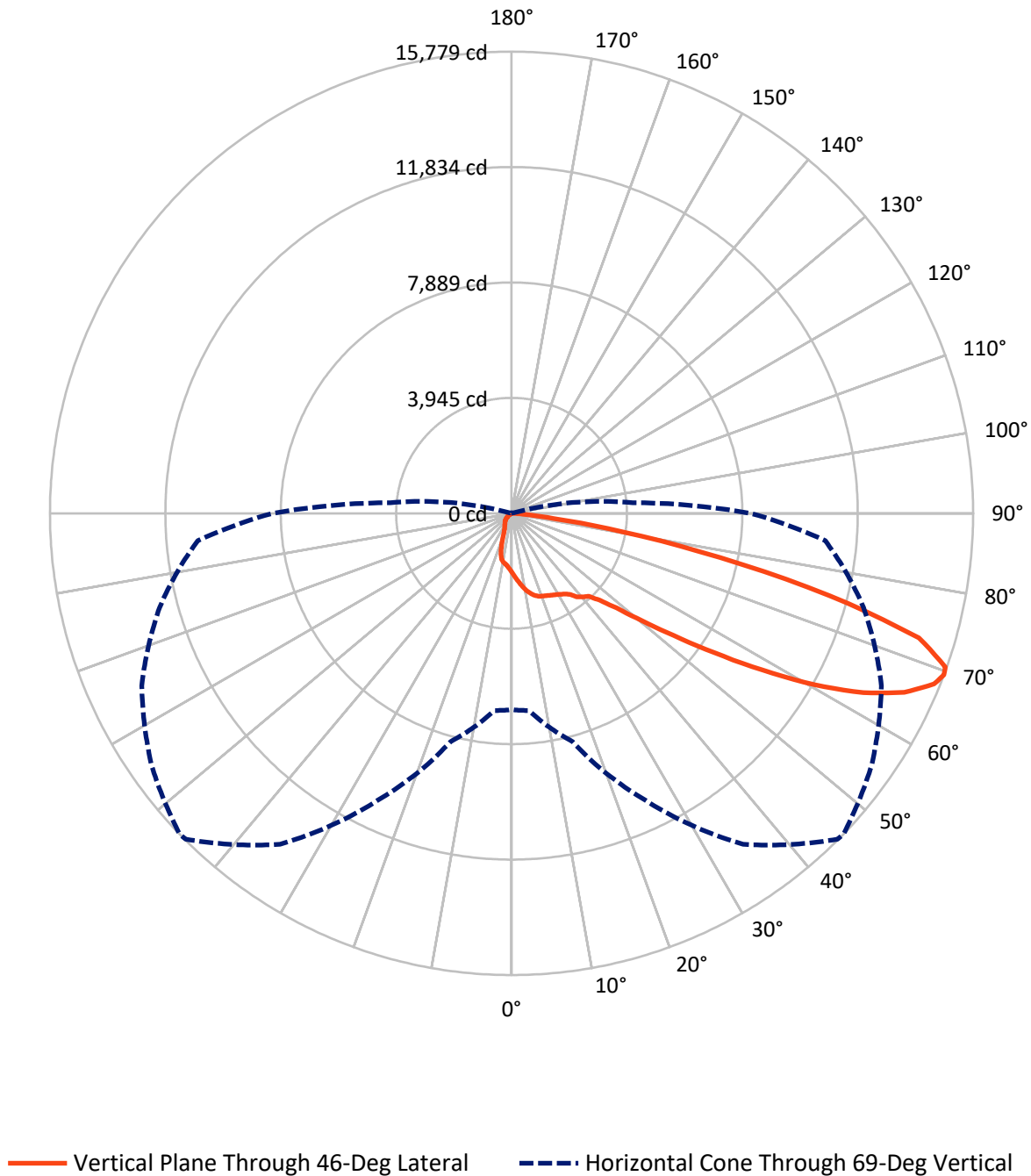
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2073.2	0.0	2073.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18127.8	0.0	18127.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	20201.0	0.0	20201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.0
10°-20°	611.2	3.0
20°-30°	961.2	4.8
30°-40°	1378.4	6.8
40°-50°	2382.3	11.8
50°-60°	4706.5	23.3
60°-70°	6577.8	32.6
70°-80°	3177.8	15.7
80°-90°	204.2	1.0
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°	20201.0	100.0
0°-180°	20201.0	100.0

Coefficient of Utilization



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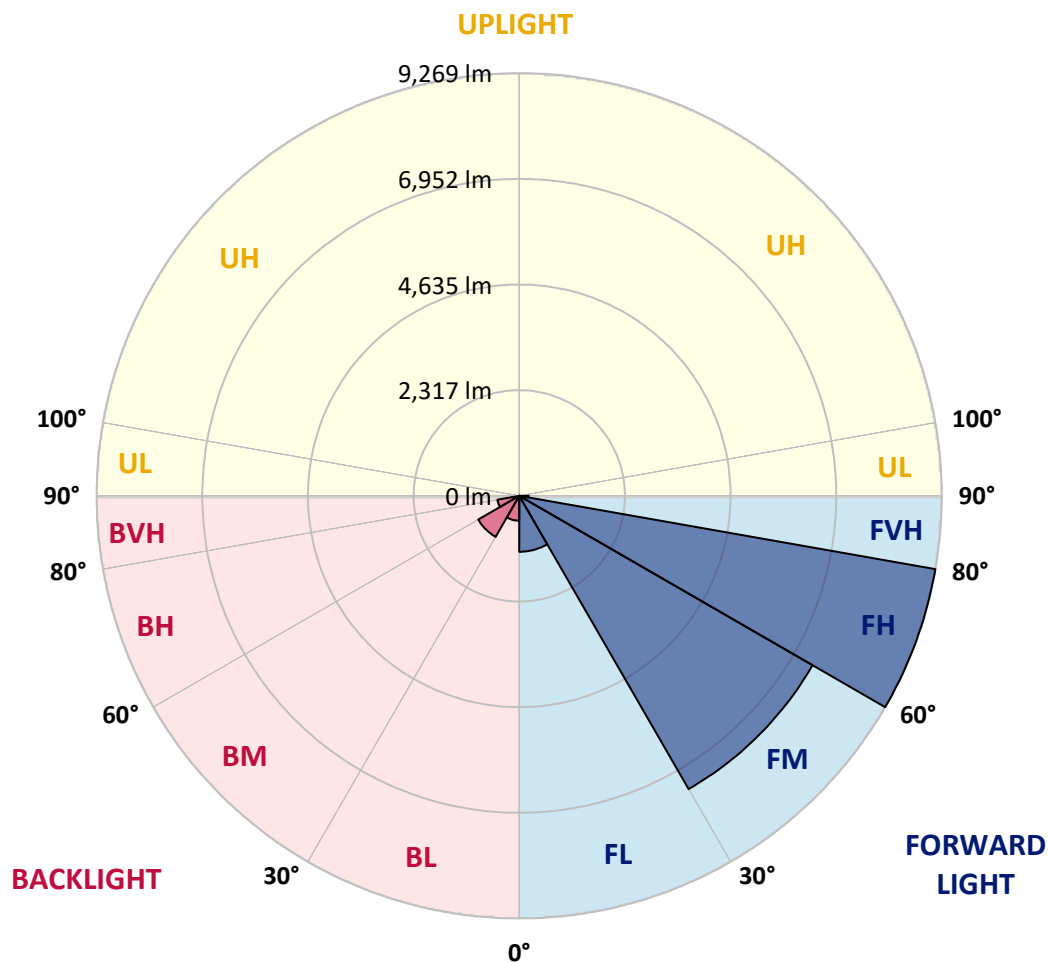
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1227.5	6.1			
FM	(30°-60°)	7428.4	36.8			
FH	(60°-80°)	9269.5	45.9			G4/12000
FVH	(80°-90°)	202.5	1.0			G2/225
BL	(0°-30°)	546.4	2.7	B2/1000		
BM	(30°-60°)	1038.9	5.1	B2/2500		
BH	(60°-80°)	486.1	2.4	B1/500		G1/500
BVH	(80°-90°)	1.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1
2.5°	2248.5	2245.7	2232.4	2226.8	2194.6	2175.6	2168.0	2144.4	2110.3	2076.2	2038.3
5°	2504.3	2503.3	2478.7	2455.0	2394.4	2337.6	2327.2	2272.2	2195.5	2123.5	2051.5
7.5°	2765.7	2753.4	2728.7	2683.3	2595.2	2504.3	2495.7	2418.1	2309.2	2205.0	2101.7
10°	2987.3	2979.7	2947.5	2878.4	2775.2	2671.9	2661.5	2565.8	2442.7	2314.8	2183.2
12.5°	3159.7	3154.0	3111.4	3025.2	2915.3	2808.3	2794.1	2708.9	2577.2	2434.2	2278.8
15°	3264.8	3262.0	3209.9	3118.0	3010.1	2917.2	2904.9	2830.1	2707.9	2558.3	2383.0
17.5°	3289.5	3290.4	3236.4	3143.6	3054.6	2988.3	2978.8	2922.0	2819.7	2671.0	2487.2
20°	3234.5	3245.9	3197.6	3117.1	3062.1	3027.1	3019.5	2985.4	2899.2	2759.1	2570.6
22.5°	3156.9	3162.5	3129.4	3075.4	3052.7	3059.3	3055.5	3036.6	2963.6	2834.8	2653.0
25°	3109.5	3109.5	3089.6	3044.1	3059.3	3100.0	3101.0	3097.2	3039.4	2927.6	2753.4
27.5°	3107.6	3101.9	3079.2	3045.1	3086.8	3149.3	3153.1	3178.6	3142.7	3040.4	2878.4
30°	3183.4	3176.7	3128.4	3083.9	3137.0	3204.2	3213.7	3269.6	3251.6	3162.5	3017.6
32.5°	3360.5	3336.8	3229.8	3156.9	3196.6	3277.1	3289.5	3378.5	3406.9	3313.1	3152.1
35°	3603.0	3528.1	3373.8	3295.1	3298.9	3383.2	3394.6	3525.3	3609.6	3451.4	3256.3
37.5°	3937.3	3900.4	3649.4	3439.1	3456.2	3584.0	3617.2	3759.2	3735.6	3527.2	3374.7
40°	4670.4	4612.6	4345.5	3842.6	3606.8	3746.9	3757.4	3833.1	3835.0	3698.6	3621.0
42.5°	5668.7	5645.0	5363.7	4574.7	3903.2	3855.9	3874.8	4002.7	4145.7	4060.4	4056.7
45°	6774.0	6761.7	6463.4	5546.5	4502.8	4212.9	4236.6	4408.0	4681.8	4700.7	4821.0
47.5°	7663.4	7657.7	7486.3	6631.0	5420.6	4818.2	4825.7	5007.6	5488.7	5726.5	5918.8
50°	8474.2	8501.6	8366.2	7804.5	6670.8	5766.3	5748.3	5869.5	6642.4	7031.7	7270.3
52.5°	9601.3	9640.1	9260.3	8899.4	7982.6	6942.6	6928.4	7055.3	8029.0	8320.7	8363.4
55°	10596.7	10530.4	10230.2	10126.0	9582.3	8395.6	8391.8	8503.5	9370.2	9494.3	9572.9
57.5°	11036.2	11010.6	11155.6	11394.2	11257.9	10112.7	10104.2	10019.0	10570.2	10583.5	10825.0
60°	11313.7	11345.0	11789.2	12525.1	12865.2	11960.6	11905.7	11385.7	11716.3	11686.9	11945.5
62.5°	11105.4	11166.9	11966.3	13192.9	14068.1	13573.6	13496.0	12637.9	12695.6	12594.3	12834.9
65°	9999.1	10094.8	11404.7	13066.9	14664.8	14834.3	14755.7	13743.2	13473.2	13306.5	13173.0
67.5°	8119.0	8175.8	9543.5	11971.1	14395.8	15586.3	15570.2	14712.1	14060.5	13186.3	12150.1
69°	6709.6	6765.5	8082.1	10817.4	13803.8	15747.4	15778.6	15022.8	13948.7	12455.1	10765.3
70°	5682.9	5742.6	6969.1	9828.6	13117.1	15672.5	15728.4	14993.4	13628.6	11608.3	9550.1
72.5°	2980.7	3031.8	4290.6	6771.2	10693.4	14391.0	14560.6	13726.1	11552.4	8430.6	5646.9
75°	936.7	966.1	1675.5	3539.5	7321.5	11189.7	11228.5	10767.2	8203.3	4637.3	2351.8
77.5°	357.1	348.6	557.9	1304.2	3701.5	7045.9	7283.6	6728.6	4304.8	1639.5	542.7
80°	192.3	193.2	289.8	539.9	1583.6	3621.0	3821.8	3261.0	1529.7	511.5	125.0
82.5°	83.3	87.1	162.9	286.0	727.4	1335.5	1435.9	1195.3	584.4	343.8	46.4
85°	18.0	19.9	78.6	155.3	296.5	375.1	393.1	387.4	372.2	267.1	18.0
87.5°	0.0	0.0	35.0	55.9	74.8	85.2	74.8	97.6	205.5	180.0	9.5
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°	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1	2024.1
2.5°	2026.0	2008.9	1979.5	1947.3	1924.6	1900.9	1882.0	1873.5	1864.0	1857.4	1865.9
5°	2022.2	1989.0	1932.2	1877.3	1837.5	1805.3	1778.8	1768.3	1757.9	1750.3	1749.4
7.5°	2055.3	2008.9	1921.8	1841.3	1779.7	1736.1	1700.1	1685.0	1672.7	1667.0	1662.3
10°	2118.8	2059.1	1942.6	1837.5	1757.9	1684.0	1606.4	1546.7	1507.9	1489.9	1483.2
12.5°	2201.2	2126.4	1982.4	1857.4	1741.8	1599.7	1434.9	1292.9	1201.0	1170.7	1152.7
15°	2297.8	2205.0	2034.5	1882.9	1683.1	1423.6	1144.2	958.5	873.3	856.2	837.3
17.5°	2390.6	2288.3	2097.0	1887.7	1554.3	1137.5	838.2	712.3	679.1	690.5	693.3
20°	2472.1	2370.7	2158.6	1846.0	1320.3	853.4	648.8	617.5	629.9	651.6	655.4
22.5°	2554.5	2450.3	2215.4	1736.1	1021.0	647.9	584.4	592.0	604.3	626.1	629.9
25°	2654.9	2546.9	2268.4	1534.4	766.2	551.2	555.0	566.4	578.7	598.6	600.5
27.5°	2770.4	2669.1	2303.5	1272.0	568.3	506.7	519.0	536.1	548.4	567.3	571.1
30°	2923.9	2830.1	2314.8	1000.2	476.4	466.9	472.6	493.5	511.5	528.5	531.4
32.5°	3067.8	2989.2	2277.0	754.9	441.4	430.0	430.0	442.3	463.2	479.3	483.0
35°	3200.4	3149.3	2155.7	552.2	414.9	395.9	386.4	386.4	399.7	413.0	416.7
37.5°	3375.7	3373.8	1959.7	440.4	389.3	367.5	347.6	332.5	327.7	330.6	332.5
40°	3675.9	3678.7	1703.9	395.0	367.5	338.1	307.8	280.4	254.8	246.3	245.3
42.5°	4144.7	4102.1	1435.9	373.2	348.6	307.8	262.4	225.4	185.6	173.3	172.4
45°	4889.2	4636.3	1151.7	353.3	328.7	273.7	216.9	166.7	134.5	125.0	125.0
47.5°	5973.7	5338.2	892.2	331.5	302.1	234.9	163.9	120.3	98.5	93.8	94.7
50°	7095.1	6025.8	683.8	304.0	269.9	194.2	121.2	87.1	74.8	74.8	75.8
52.5°	8089.6	6529.7	533.2	274.7	230.2	152.5	91.9	68.2	62.5	61.6	62.5
55°	9020.7	6854.5	408.2	240.6	182.8	113.7	70.1	55.9	52.1	50.2	49.3
57.5°	9918.6	7015.6	305.9	194.2	132.6	82.4	55.9	47.4	43.6	40.7	39.8
60°	10516.2	6884.9	210.3	143.0	91.9	59.7	46.4	40.7	36.0	33.2	32.2
62.5°	10853.4	6527.8	135.4	103.2	65.4	44.5	36.9	34.1	27.5	24.6	24.6
65°	10717.0	5938.6	94.7	73.9	47.4	33.2	27.5	27.5	19.9	16.1	15.2
67.5°	9497.1	5017.1	72.0	54.9	34.1	24.6	20.8	23.7	12.3	7.6	7.6
69°	8171.1	4158.0	61.6	45.5	28.4	19.9	18.0	21.8	8.5	5.7	4.7
70°	7101.7	3586.9	55.9	39.8	23.7	17.0	16.1	20.8	8.5	4.7	3.8
72.5°	4248.9	2000.4	42.6	28.4	15.2	13.3	13.3	23.7	8.5	4.7	3.8
75°	1717.2	704.7	31.3	19.9	11.4	11.4	16.1	30.3	7.6	3.8	2.8
77.5°	389.3	154.4	18.0	12.3	7.6	11.4	18.9	23.7	4.7	1.9	0.0
80°	94.7	37.9	11.4	7.6	4.7	8.5	14.2	13.3	0.9	0.0	0.0
82.5°	31.3	13.3	4.7	3.8	0.9	2.8	6.6	3.8	0.0	0.0	0.0
85°	13.3	7.6	1.9	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.5	2.8	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)