

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: P321957

Luminaire Tested: **GAN-SA3B-750-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12411 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

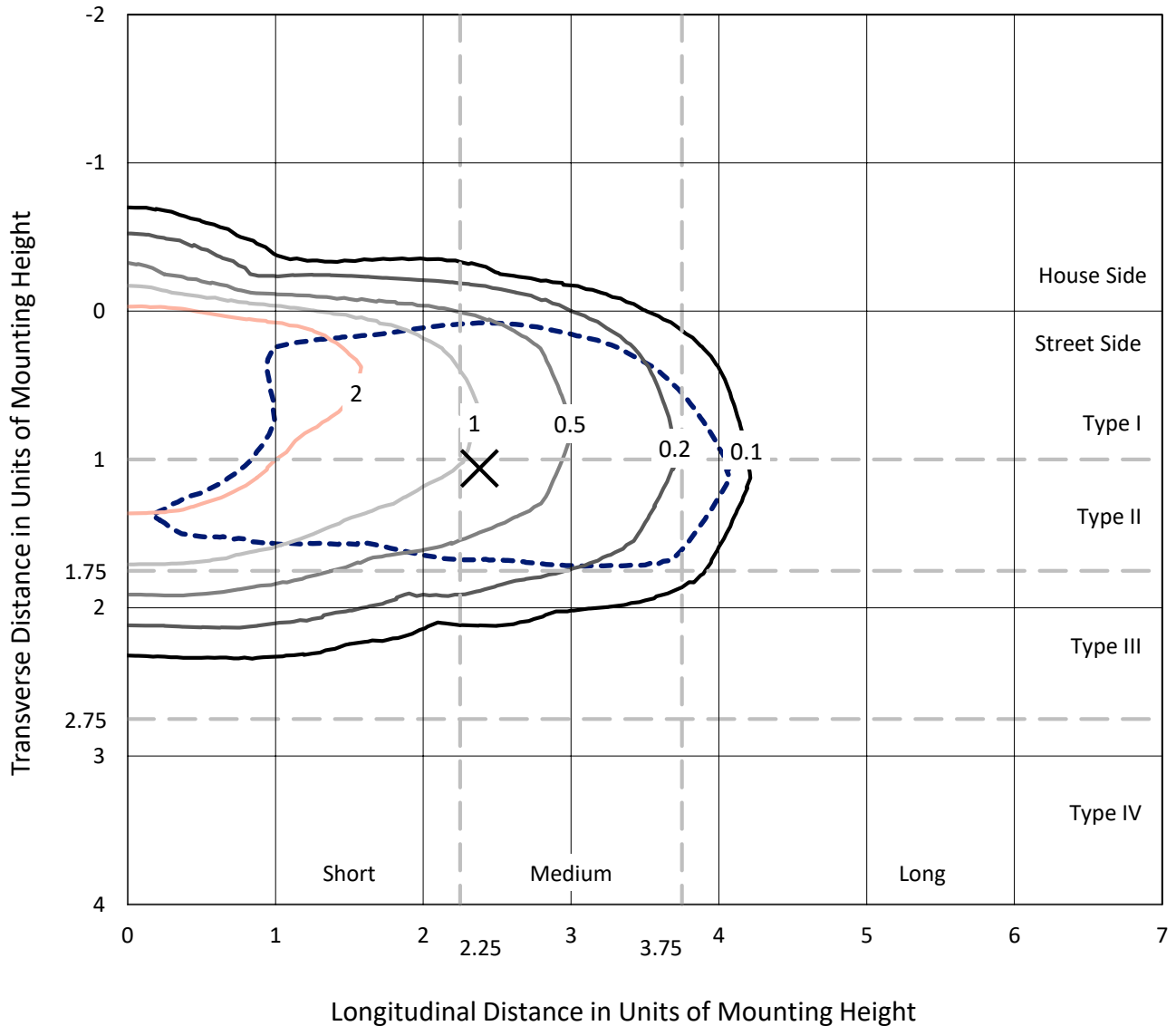
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

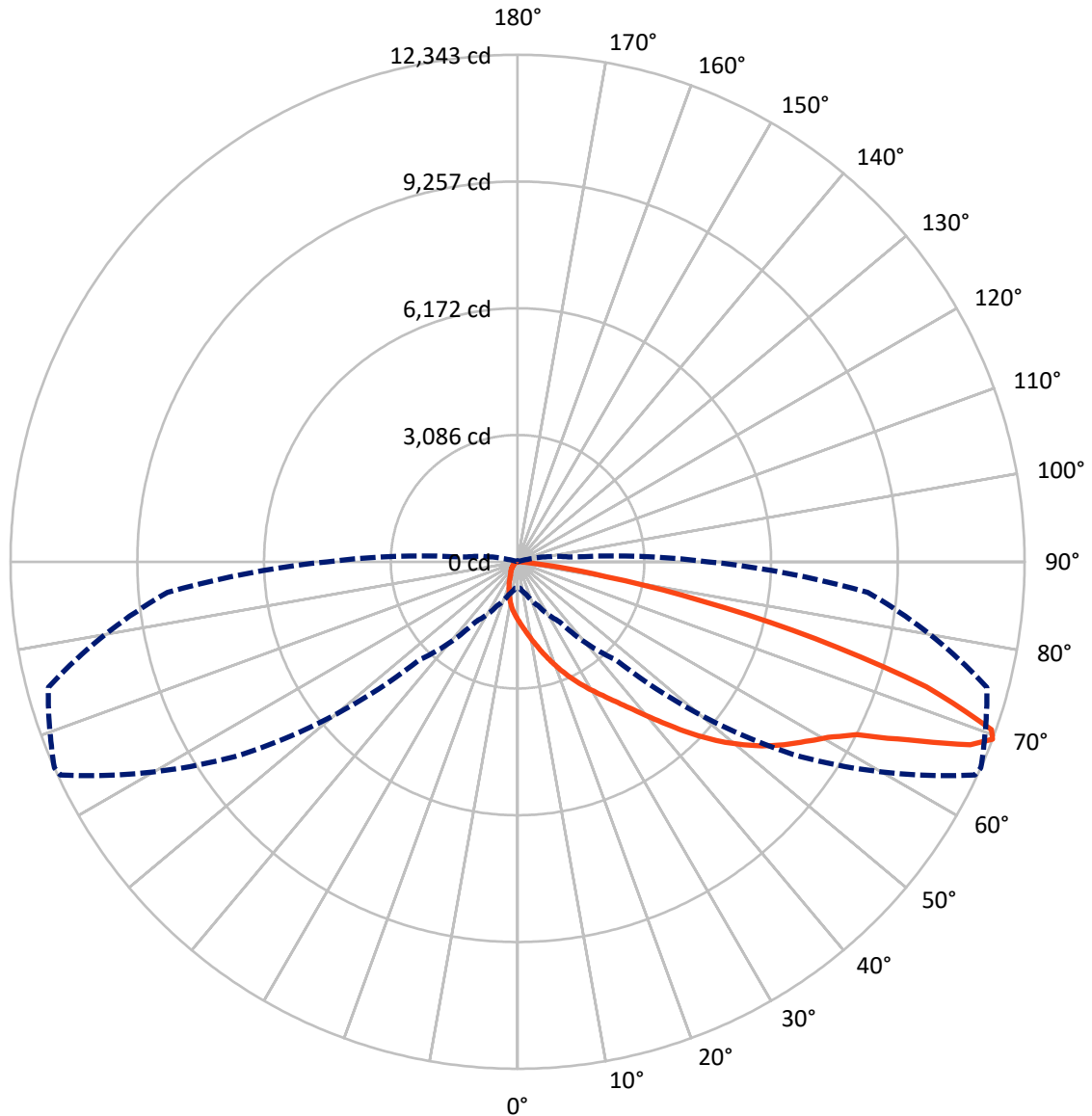
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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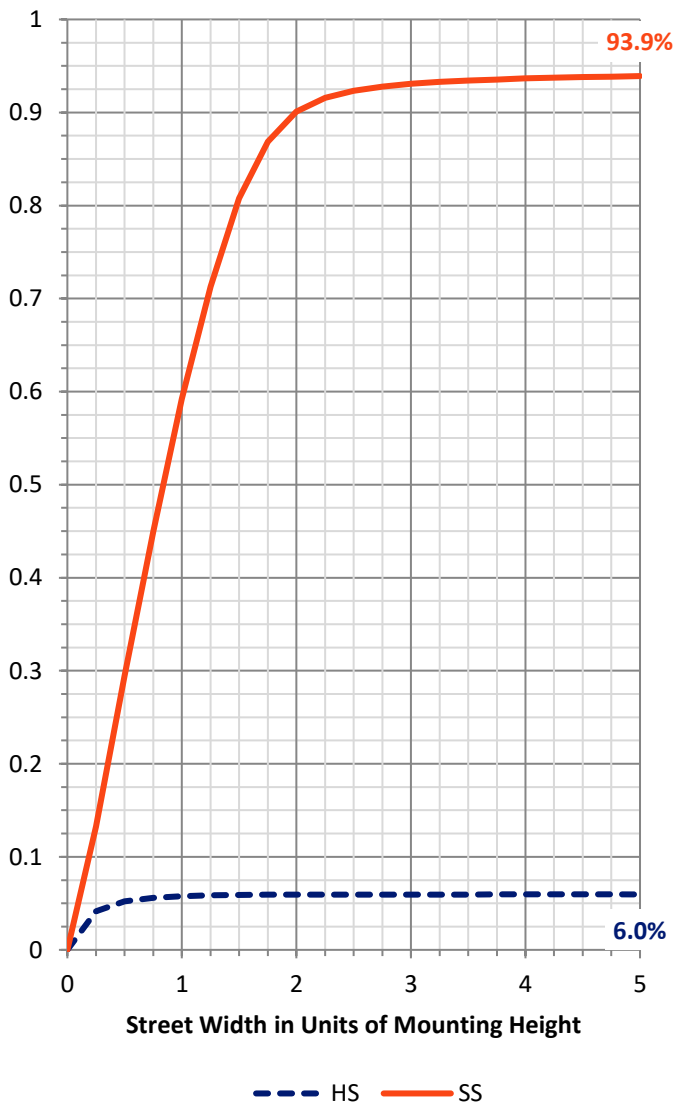
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.5	0.0	744.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11666.5	0.0	11666.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	12411.0	0.0	12411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.1
10°-20°	406.3	3.3
20°-30°	707.6	5.7
30°-40°	1241.4	10.0
40°-50°	2078.0	16.7
50°-60°	3054.4	24.6
60°-70°	3136.1	25.3
70°-80°	1548.2	12.5
80°-90°	102.4	0.8
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°	12411.0	100.0
0°-180°	12411.0	100.0

Coefficient of Utilization

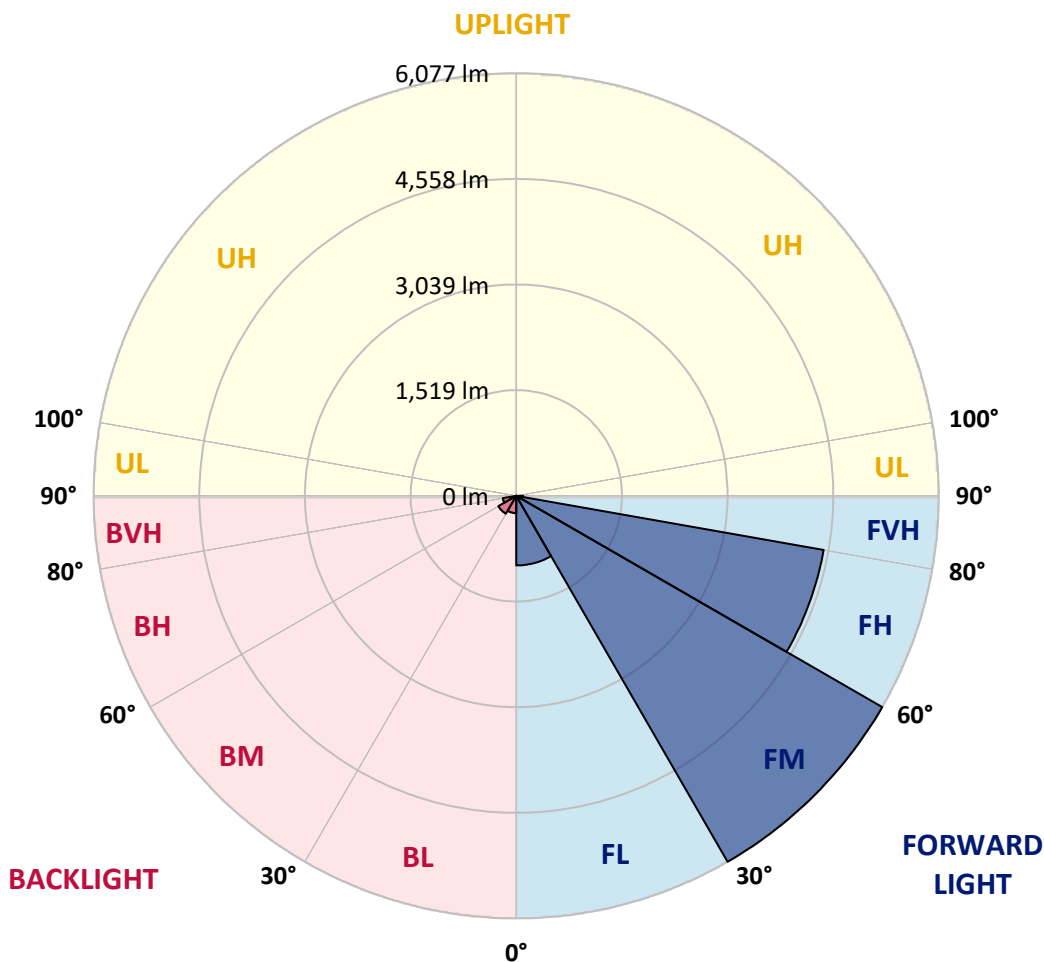


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.4	8.1			
FM (30°-60°)	6077.0	49.0			
FH (60°-80°)	4488.1	36.2			G2/5000
FVH (80°-90°)	99.9	0.8			G1/100
BL (0°-30°)	249.0	2.0	B1/500		
BM (30°-60°)	296.8	2.4	B1/1000		
BH (60°-80°)	196.2	1.6	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1662.4	1655.3	1652.3	1639.4	1617.0	1599.9	1566.9	1528.5	1521.5	1484.3	1438.9
5°	1878.1	1872.2	1868.1	1849.8	1826.8	1783.8	1723.7	1652.3	1638.8	1568.0	1477.3
7.5°	2028.4	2039.0	2039.0	2027.2	1998.4	1965.9	1892.3	1795.0	1777.9	1669.4	1528.5
10°	2116.3	2129.2	2139.2	2149.3	2145.1	2132.2	2062.6	1953.0	1932.3	1788.5	1588.1
12.5°	2124.5	2137.5	2165.8	2207.6	2248.3	2277.8	2234.2	2128.0	2104.5	1926.4	1658.8
15°	2078.5	2092.1	2135.7	2217.1	2315.5	2401.6	2415.7	2322.0	2297.8	2090.9	1747.2
17.5°	1998.4	2007.2	2069.7	2182.3	2336.7	2494.7	2580.2	2530.1	2507.7	2279.0	1845.7
20°	1938.8	1945.3	2000.1	2121.0	2323.8	2553.1	2735.8	2751.1	2727.6	2480.6	1952.4
22.5°	2040.8	2052.6	2054.4	2111.5	2288.4	2582.0	2872.6	2968.7	2951.0	2694.5	2057.3
25°	2319.6	2333.2	2288.4	2253.0	2318.5	2594.9	2989.9	3191.5	3177.3	2925.0	2162.8
27.5°	2688.1	2702.2	2644.4	2538.9	2475.8	2643.9	3094.2	3417.8	3417.3	3169.1	2276.6
30°	3050.0	3064.2	3005.2	2899.7	2754.7	2782.4	3184.4	3654.8	3658.4	3420.8	2397.4
32.5°	3429.6	3447.3	3386.6	3251.0	3099.5	3021.7	3311.2	3893.0	3913.0	3712.6	2533.6
35°	3861.1	3863.5	3778.0	3636.0	3461.5	3341.8	3514.5	4160.0	4207.8	4073.9	2706.3
37.5°	4284.4	4301.5	4231.3	4007.3	3847.0	3711.4	3816.9	4493.7	4561.5	4515.5	2932.1
40°	4598.0	4634.0	4623.9	4382.2	4230.2	4133.5	4192.4	4890.4	4976.5	5029.5	3216.8
42.5°	4794.9	4822.0	4868.0	4722.4	4584.4	4600.4	4635.7	5352.5	5458.7	5615.5	3544.0
45°	5020.7	5033.6	5071.9	5007.7	4914.6	5074.9	5106.1	5873.1	5984.5	6245.6	3907.1
47.5°	5296.5	5327.2	5337.8	5278.9	5236.4	5494.6	5559.5	6346.4	6502.6	6920.6	4291.5
50°	5647.9	5656.1	5674.4	5636.1	5593.6	5855.4	5966.2	6843.4	6985.4	7597.9	4670.5
52.5°	5991.5	6021.0	6084.7	6060.5	6043.4	6162.5	6328.7	7291.4	7449.9	8162.6	5049.0
55°	6090.6	6115.9	6335.8	6486.1	6625.2	6541.0	6675.4	7692.8	7864.4	8667.2	5413.3
57.5°	5695.0	5746.3	6127.1	6518.6	7095.7	7129.3	7151.7	8104.9	8258.7	9053.9	5792.3
60°	4695.3	4705.3	5330.1	6001.6	7017.8	7642.7	7847.3	8547.6	8676.7	9414.1	6246.2
62.5°	2986.3	3088.3	3773.9	4721.8	6194.9	7568.4	8688.5	9217.2	9264.4	9846.2	6897.0
65°	1422.4	1488.5	1982.4	2917.4	4487.2	6617.6	9269.1	10428.6	10449.8	10702.7	7766.5
67.5°	787.6	819.4	1054.6	1570.4	2623.2	4679.9	9034.5	11863.4	11883.5	11577.5	8529.3
69°	616.0	643.1	828.2	1183.7	1778.5	3363.6	8175.6	12283.7	12343.3	11828.1	8556.4
70°	522.9	549.4	713.3	999.8	1430.1	2599.0	7277.2	12179.4	12242.5	11804.5	8354.2
72.5°	320.1	335.4	475.1	703.8	958.5	1307.5	4487.8	10300.1	10406.8	10828.3	7180.0
75°	215.8	224.0	297.1	485.7	685.6	673.2	2331.4	7260.1	7491.2	8423.2	5303.0
77.5°	154.4	162.1	199.2	314.2	480.4	444.5	1055.8	4511.9	4561.5	5051.9	2892.0
80°	87.8	94.9	140.9	186.9	326.0	296.5	419.7	2155.2	2179.9	2166.4	965.6
82.5°	46.0	51.9	77.2	123.2	209.3	193.9	174.5	721.5	725.1	603.0	211.6
85°	8.8	10.6	38.3	84.3	107.9	84.3	71.3	169.2	172.7	152.7	52.5
87.5°	0.0	0.6	15.3	18.9	21.2	21.8	23.0	33.0	35.4	47.7	14.1
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°	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1418.9	1397.7	1357.0	1309.8	1273.3	1237.3	1209.0	1179.6	1169.0	1163.6	1163.1
5°	1433.0	1388.2	1302.2	1213.8	1141.2	1072.9	1023.9	977.4	955.6	945.5	941.4
7.5°	1456.6	1384.7	1246.2	1111.2	1006.8	921.4	853.6	802.9	777.5	766.9	762.8
10°	1484.3	1380.0	1180.7	1002.7	869.5	781.1	713.9	663.8	636.1	624.3	618.4
12.5°	1516.8	1371.7	1105.3	893.1	752.2	663.8	582.4	520.5	488.7	475.1	468.6
15°	1556.8	1363.5	1026.3	789.9	649.0	541.1	452.1	410.3	403.8	401.4	402.0
17.5°	1596.3	1350.5	940.2	687.9	540.6	422.7	377.3	374.9	376.1	376.1	376.1
20°	1631.7	1321.0	846.5	600.7	437.4	356.6	347.2	343.1	340.1	337.8	334.8
22.5°	1659.4	1281.5	756.3	514.0	357.2	326.6	311.8	298.9	288.3	281.2	277.6
25°	1678.3	1229.1	673.8	430.9	321.3	297.1	270.6	248.8	232.3	222.2	218.1
27.5°	1692.4	1172.5	600.1	360.8	296.5	262.9	228.1	202.2	185.1	176.3	172.7
30°	1702.4	1108.2	535.3	317.1	268.8	227.0	189.8	164.5	152.1	147.4	145.0
32.5°	1711.9	1036.9	473.9	296.5	242.9	193.9	159.2	139.7	132.0	126.2	124.4
35°	1735.5	970.9	415.6	274.7	216.3	165.6	136.8	122.6	115.0	111.4	110.2
37.5°	1791.5	922.0	359.6	252.3	189.8	143.2	119.7	109.6	102.6	99.0	97.9
40°	1881.6	897.2	312.4	228.1	163.9	126.2	108.5	99.0	91.4	86.1	84.9
42.5°	2014.3	900.7	279.4	204.0	143.2	112.6	97.9	86.7	78.4	73.7	72.5
45°	2175.2	926.7	256.4	180.4	126.2	102.0	86.1	74.3	66.6	62.5	61.3
47.5°	2349.7	968.5	237.6	159.2	112.6	92.0	74.3	61.9	55.4	51.9	51.3
50°	2533.6	1009.2	218.1	138.5	100.8	81.9	62.5	51.3	46.0	43.0	41.9
52.5°	2719.9	1056.4	200.4	119.7	90.8	70.1	51.9	41.9	37.7	35.4	34.2
55°	2920.3	1091.7	183.3	104.9	80.8	59.5	43.0	34.8	31.2	28.3	27.7
57.5°	3156.1	1146.6	165.6	90.8	69.0	49.5	35.4	27.7	24.8	21.8	21.2
60°	3474.4	1210.8	146.8	80.2	56.6	40.7	28.9	22.4	18.9	16.5	15.9
62.5°	3894.2	1282.1	123.2	70.1	46.0	33.0	23.0	17.7	13.6	10.6	10.6
65°	4426.5	1398.3	100.8	58.9	37.7	27.1	17.7	13.0	7.7	4.7	4.7
67.5°	4737.1	1418.3	81.3	48.3	30.7	23.0	14.7	8.8	2.4	0.6	0.0
69°	4637.5	1302.2	69.0	41.3	26.5	21.8	13.6	6.5	1.2	0.0	0.0
70°	4450.0	1190.8	60.7	36.5	24.2	20.6	13.0	4.7	1.2	0.0	0.0
72.5°	3677.2	847.7	46.0	27.1	17.7	18.3	11.8	2.9	1.2	0.0	0.0
75°	2678.6	515.2	33.0	18.9	11.2	13.6	8.3	1.2	0.6	0.0	0.0
77.5°	1490.2	242.9	20.6	10.6	7.1	8.3	4.1	0.0	0.0	0.0	0.0
80°	484.0	66.0	9.4	5.9	4.1	4.7	1.8	0.0	0.0	0.0	0.0
82.5°	89.6	18.9	5.3	2.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.5	7.7	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.4	0.6	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)