

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: P323159

Luminaire Tested: **GAN-SA5B-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21544 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

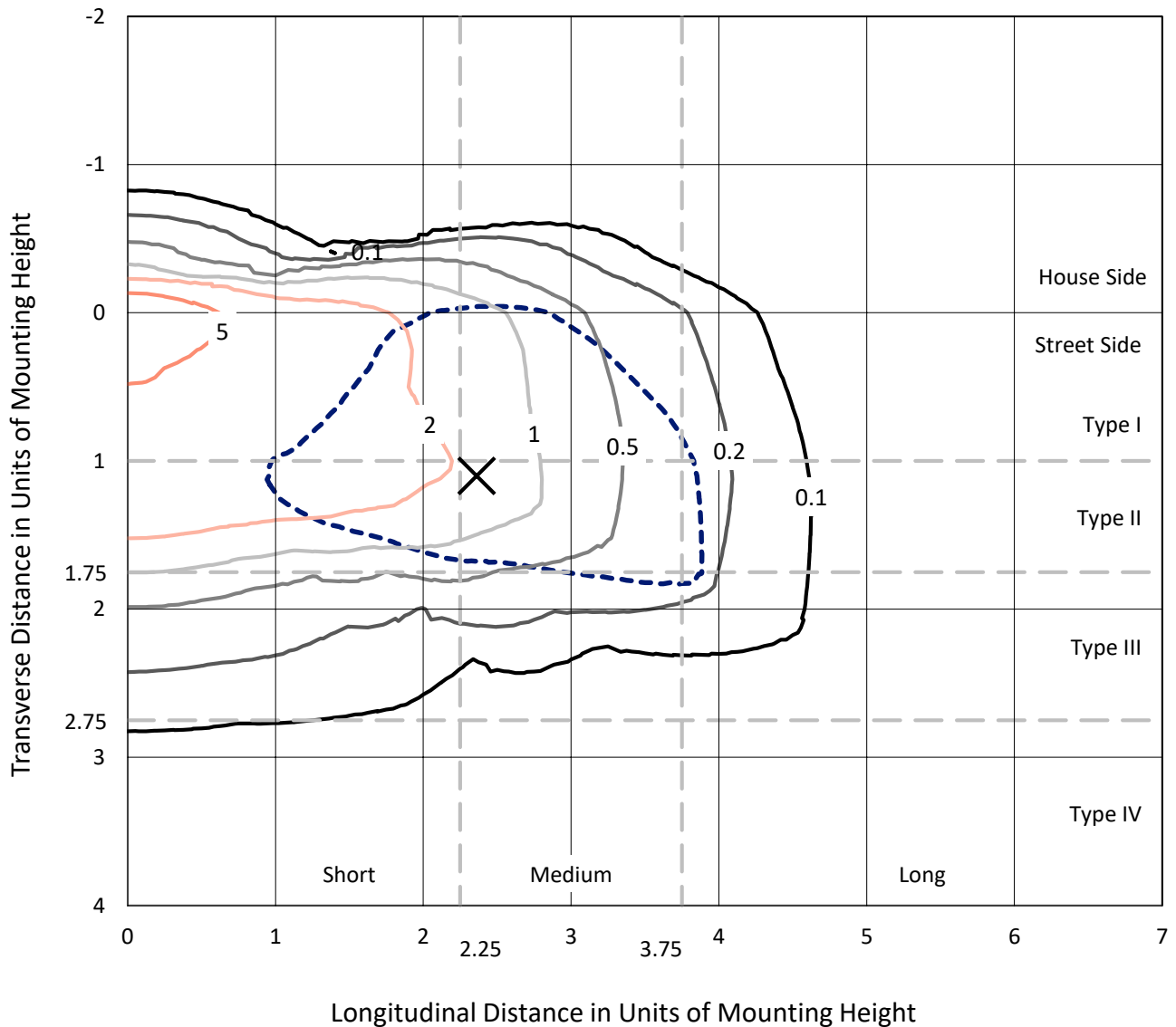
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

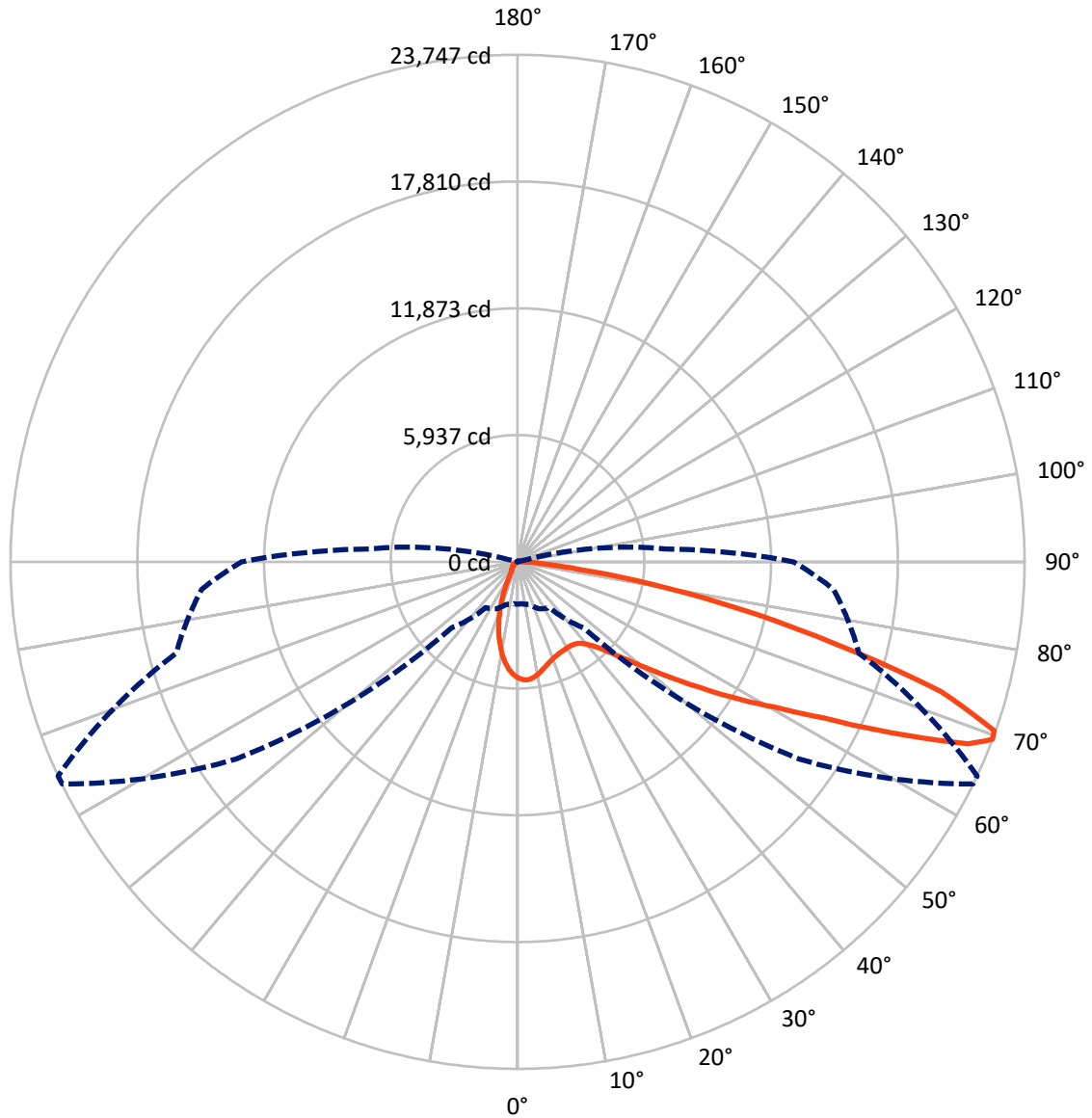
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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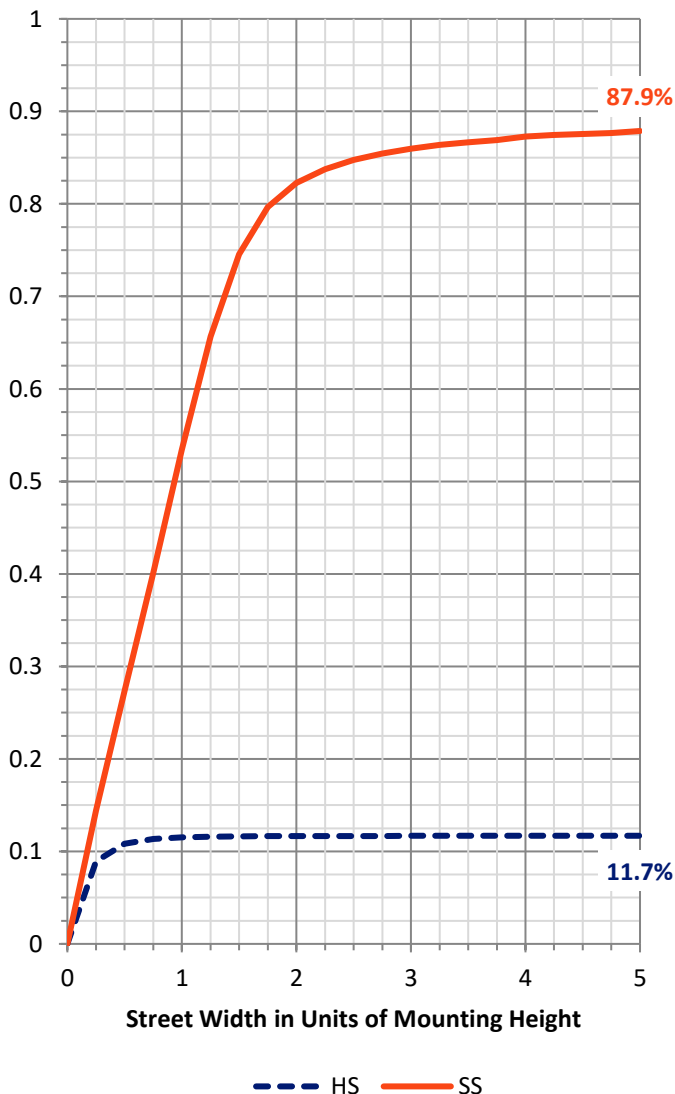
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.5	0.0	2539.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19004.5	0.0	19004.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	21544.0	0.0	21544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.2	2.1
10°-20°	996.6	4.6
20°-30°	1380.3	6.4
30°-40°	1924.5	8.9
40°-50°	2991.4	13.9
50°-60°	4802.3	22.3
60°-70°	5432.2	25.2
70°-80°	3190.4	14.8
80°-90°	371.1	1.7
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°	21544.0	100.0
0°-180°	21544.0	100.0

Coefficient of Utilization

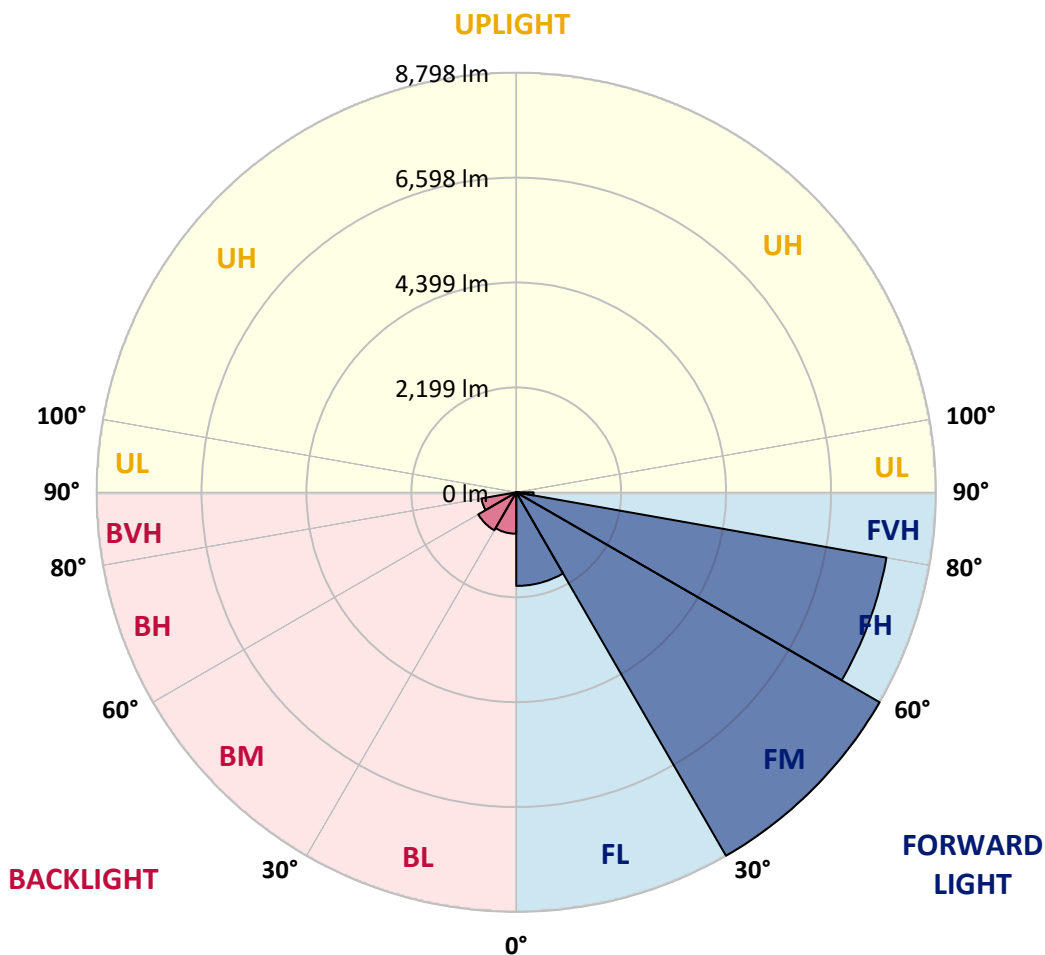


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.2	9.1			
FM (30°-60°)	8798.0	40.8			
FH (60°-80°)	7880.6	36.6			G4/12000
FVH (80°-90°)	362.8	1.7			G3/500
BL (0°-30°)	868.9	4.0	B2/1000		
BM (30°-60°)	920.3	4.3	B1/1000		
BH (60°-80°)	742.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	64°	65°	75°	85°
0°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	5492.5	5478.8	5489.8	5513.5	5525.3	5525.3	5534.5	5523.5	5527.2	5500.7	5462.4
5°	5148.8	5127.9	5158.0	5224.5	5306.6	5376.7	5480.7	5535.4	5540.8	5541.8	5497.1
7.5°	4778.7	4759.6	4804.2	4882.6	4988.4	5118.8	5300.2	5458.8	5467.9	5553.6	5520.8
10°	4477.9	4464.2	4516.2	4600.0	4724.0	4869.9	5092.3	5312.9	5339.4	5529.0	5517.1
12.5°	4239.0	4228.1	4277.3	4374.0	4500.7	4662.0	4894.5	5150.7	5186.2	5473.4	5498.9
15°	4064.9	4063.1	4104.1	4197.1	4337.5	4487.9	4725.8	5000.2	5041.3	5413.2	5496.2
17.5°	3973.8	3976.5	4006.6	4085.9	4206.2	4355.7	4583.6	4873.5	4918.2	5359.4	5509.8
20°	3964.6	3967.4	3983.8	4028.5	4126.0	4258.2	4467.9	4766.9	4813.4	5319.3	5531.7
22.5°	4044.9	4043.0	4047.6	4043.0	4097.7	4198.0	4391.3	4684.8	4738.6	5292.9	5549.0
25°	4198.9	4196.2	4194.4	4160.6	4124.2	4178.0	4359.4	4638.3	4689.4	5273.7	5559.1
27.5°	4413.2	4411.3	4408.6	4353.0	4243.6	4209.9	4363.0	4621.0	4663.9	5258.2	5557.2
30°	4694.9	4707.6	4704.0	4626.5	4456.0	4307.4	4401.3	4611.9	4649.3	5228.2	5538.1
32.5°	5025.8	5051.3	5071.4	4988.4	4775.1	4500.7	4489.7	4621.9	4649.3	5205.4	5503.5
35°	5369.5	5402.3	5476.1	5446.9	5166.2	4791.5	4642.0	4682.1	4704.9	5218.1	5487.1
37.5°	5707.7	5746.9	5907.3	5992.1	5678.5	5176.2	4879.0	4830.7	4842.5	5295.6	5505.3
40°	6100.6	6159.8	6403.2	6540.0	6290.2	5691.3	5233.6	5085.9	5090.5	5466.1	5590.1
42.5°	6616.6	6677.6	6941.1	7155.3	6979.4	6342.2	5715.0	5476.1	5471.6	5785.2	5789.7
45°	7245.6	7309.4	7582.0	7819.9	7740.6	7113.4	6331.2	6045.9	6040.4	6288.4	6168.0
47.5°	7958.5	8021.4	8264.8	8510.0	8595.7	8014.1	7116.1	6823.5	6810.7	6987.6	6752.4
50°	8570.2	8611.2	8835.4	9165.4	9552.0	9120.8	8092.5	7810.8	7797.1	7916.5	7610.2
52.5°	8792.6	8816.3	9044.2	9506.4	10470.9	10619.5	9375.1	9012.3	9002.3	9054.2	8752.5
55°	8342.3	8385.1	8665.0	9350.5	10968.6	12313.3	10994.2	10500.1	10424.4	10312.3	9946.7
57.5°	7115.2	7183.6	7484.4	8396.0	10736.2	13657.0	13373.5	12182.9	12071.7	11386.2	10917.6
60°	5331.2	5415.0	5664.8	6648.5	9495.5	14135.6	15973.4	14058.1	13807.4	12241.3	11810.1
62.5°	3658.3	3700.3	3869.8	4510.7	6993.1	13351.6	18148.6	16569.6	16112.0	13171.1	12775.5
65°	2794.1	2808.7	2878.0	3098.6	4164.3	10845.6	19013.7	19883.4	19330.0	14283.3	13777.3
67.5°	2251.7	2239.9	2335.6	2651.0	2788.7	6616.6	18004.5	23018.5	22759.6	15770.1	14785.6
69°	1985.5	1969.1	2066.6	2433.1	2619.1	4374.0	16095.6	23730.4	23746.8	16555.1	14854.9
70°	1786.8	1797.7	1894.4	2303.7	2561.7	3433.2	14272.4	23549.0	23678.5	16848.6	14439.2
72.5°	1193.3	1222.5	1416.7	1912.6	2463.2	2598.1	8617.6	20207.9	20705.7	16187.7	12388.0
75°	672.8	694.7	925.3	1442.2	2321.0	2474.1	4551.7	14887.7	15369.0	13536.7	9552.9
77.5°	330.0	341.9	523.3	930.8	1940.8	2357.5	2581.7	10112.6	10662.3	8835.4	5403.2
80°	139.5	145.9	261.6	574.3	1387.5	2249.9	1917.1	6223.6	6292.0	3461.4	1439.5
82.5°	53.8	55.6	110.3	358.3	881.5	1754.0	1603.5	2950.9	2879.8	651.8	328.2
85°	6.4	7.3	40.1	215.1	490.5	902.5	1302.7	1271.7	1176.9	129.5	168.7
87.5°	0.0	0.0	2.7	65.6	145.9	423.0	677.3	527.8	475.9	41.9	87.5
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°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	5430.5	5421.4	5372.2	5301.1	5233.6	5149.8	5069.5	5021.2	4982.9	4957.4	4987.5
5°	5445.1	5405.0	5255.5	5064.1	4876.3	4664.8	4467.9	4301.0	4235.4	4162.5	4195.3
7.5°	5440.6	5364.9	5096.0	4755.0	4410.4	4054.0	3716.7	3456.9	3322.0	3189.8	3223.5
10°	5417.8	5290.1	4882.6	4377.6	3861.6	3349.3	2870.7	2507.0	2303.7	2119.5	2146.0
12.5°	5367.6	5189.9	4631.0	3945.5	3255.4	2579.9	2019.2	1553.4	1303.6	1193.3	1207.0
15°	5337.5	5092.3	4364.8	3507.9	2608.2	1796.8	1234.3	918.0	804.1	767.6	772.1
17.5°	5323.0	4998.4	4089.5	3007.4	1946.3	1144.1	797.7	703.8	679.2	672.8	674.6
20°	5308.4	4903.6	3806.0	2512.4	1341.0	769.4	655.5	628.1	619.0	610.8	612.6
22.5°	5283.8	4812.5	3501.5	2011.0	904.3	624.5	590.7	564.3	545.1	535.1	536.9
25°	5253.7	4716.7	3190.7	1497.8	660.0	557.0	525.1	487.7	464.9	446.7	447.6
27.5°	5205.4	4599.1	2869.8	1090.3	554.3	498.7	455.8	414.8	376.5	355.5	355.5
30°	5137.9	4466.0	2513.3	780.3	496.8	441.2	389.3	338.2	297.2	278.0	276.2
32.5°	5063.1	4327.5	2153.3	591.6	451.3	387.4	328.2	274.4	237.9	222.4	221.5
35°	4999.3	4178.0	1794.1	495.9	405.7	335.5	270.8	225.2	196.0	183.2	182.3
37.5°	4958.3	4028.5	1444.0	443.0	364.6	287.2	227.0	186.0	165.0	155.0	154.1
40°	4951.9	3917.2	1124.0	402.9	326.4	244.3	189.6	157.7	138.6	127.6	126.7
42.5°	5034.9	3853.4	862.4	369.2	287.2	206.9	161.4	134.9	114.9	103.9	103.0
45°	5252.8	3873.5	663.7	339.1	248.0	175.0	136.7	112.1	93.9	85.7	83.9
47.5°	5650.2	4012.0	527.8	309.0	210.6	148.6	116.7	93.0	77.5	69.3	68.4
50°	6357.7	4337.5	441.2	276.2	175.9	126.7	96.6	75.7	62.9	55.6	54.7
52.5°	7296.6	4917.3	393.8	244.3	145.9	107.6	79.3	60.2	49.2	43.8	42.8
55°	8332.2	5619.2	362.8	209.7	119.4	89.3	62.9	47.4	38.3	33.7	31.9
57.5°	9343.2	6227.3	333.7	175.9	99.4	72.9	50.1	37.4	30.1	25.5	24.6
60°	10272.2	6786.1	299.9	141.3	81.1	57.4	39.2	29.2	23.7	19.1	19.1
62.5°	11266.7	7218.2	253.4	110.3	66.5	43.8	31.9	26.4	19.1	16.4	15.5
65°	12320.6	7539.1	198.7	85.7	52.0	32.8	26.4	27.3	15.5	11.9	10.9
67.5°	13099.1	7475.3	146.8	67.5	40.1	25.5	25.5	29.2	13.7	9.1	8.2
69°	12927.7	6956.6	123.1	58.3	34.6	21.9	23.7	29.2	12.8	8.2	7.3
70°	12430.9	6382.3	108.5	52.0	31.0	20.1	22.8	28.3	11.9	8.2	7.3
72.5°	10352.4	4807.0	84.8	39.2	24.6	16.4	19.1	24.6	11.9	8.2	6.4
75°	7787.1	3076.7	64.7	28.3	18.2	12.8	14.6	18.2	11.9	7.3	6.4
77.5°	4237.2	1109.4	46.5	19.1	12.8	10.0	10.0	13.7	10.9	5.5	3.6
80°	1089.4	279.0	29.2	12.8	10.0	7.3	6.4	9.1	6.4	0.9	0.0
82.5°	268.9	62.9	15.5	9.1	7.3	2.7	2.7	4.6	2.7	0.0	0.0
85°	147.7	31.0	10.0	6.4	3.6	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	75.7	9.1	2.7	1.8	0.9	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)