

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: P317782

Luminaire Tested: **GAN-SA8D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63580 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

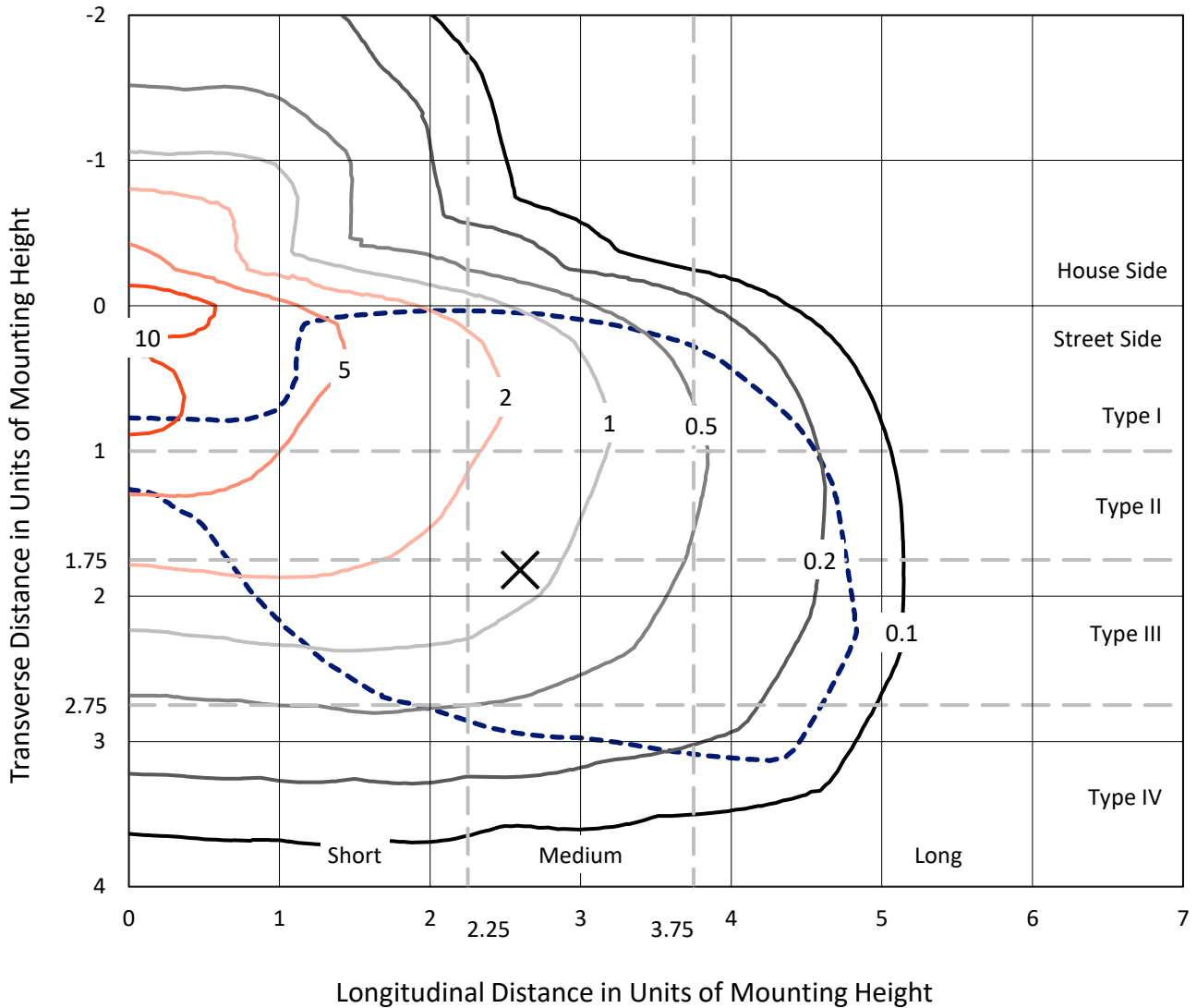
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

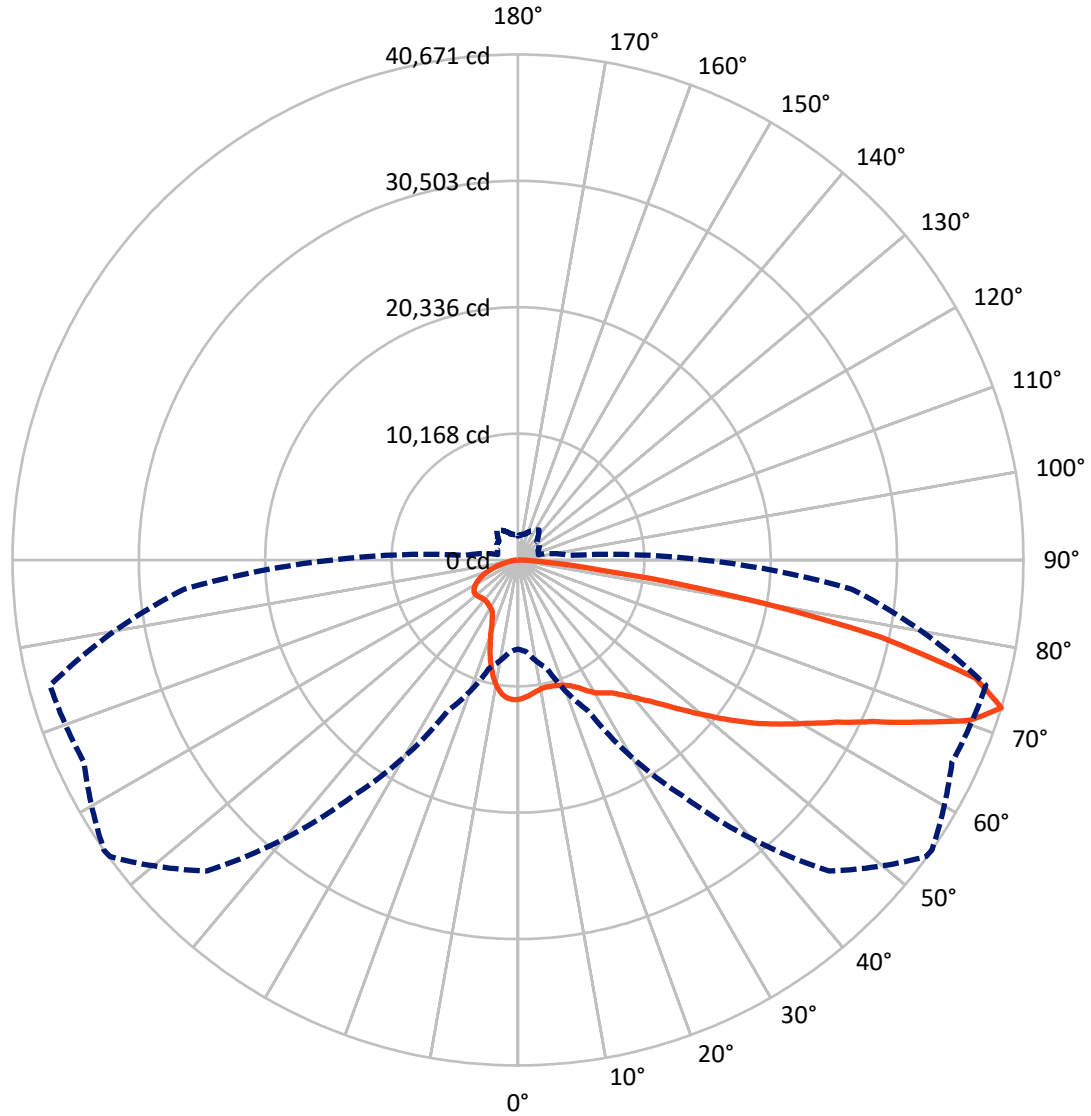
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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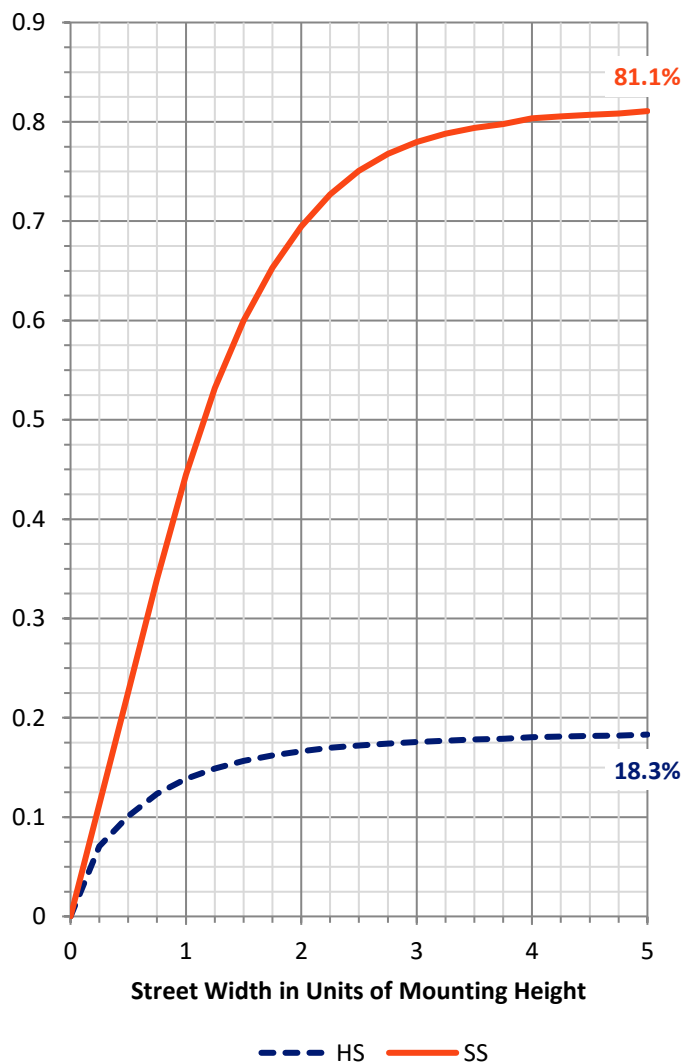
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11817.4	0.0	11817.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	51762.6	0.0	51762.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	63580.0	0.0	63580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.7	1.6
10°-20°	2701.6	4.2
20°-30°	4454.3	7.0
30°-40°	6589.1	10.4
40°-50°	9196.9	14.5
50°-60°	11974.7	18.8
60°-70°	14716.6	23.1
70°-80°	11536.0	18.1
80°-90°	1396.0	2.2
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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
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0°-90°	63580.0	100.0
0°-180°	63580.0	100.0

Coefficient of Utilization



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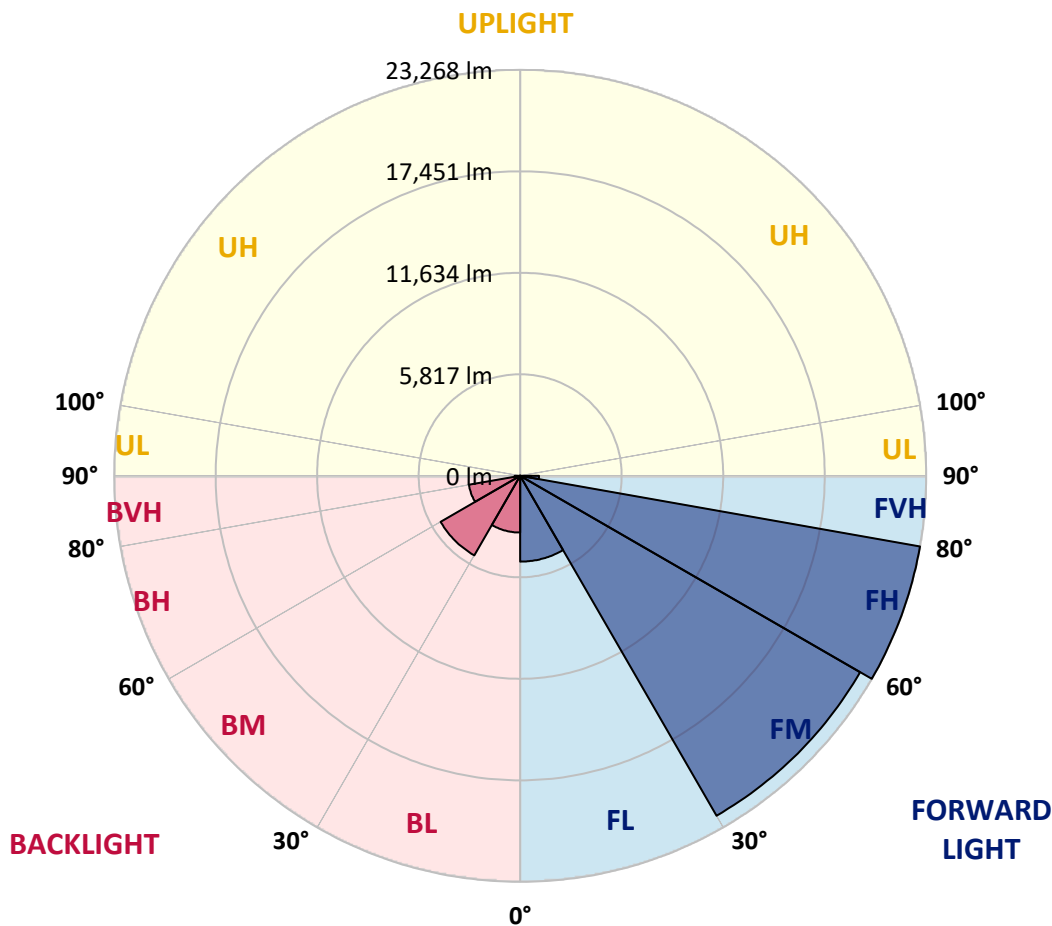
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4919.2	7.7			
FM (30°-60°)	22495.9	35.4			
FH (60°-80°)	23268.1	36.6			G5
FVH (80°-90°)	1079.3	1.7			G5
BL (0°-30°)	3251.5	5.1	B4/5000		
BM (30°-60°)	5264.8	8.3	B4/8500		
BH (60°-80°)	2984.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	316.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1
2.5°	10849.1	10823.3	10855.5	10900.6	10950.0	11016.6	11055.2	11072.4	11139.0	11164.8	11220.6
5°	10346.6	10333.7	10387.4	10464.7	10574.2	10728.8	10853.4	10877.0	11053.1	11177.6	11291.5
7.5°	9981.5	9981.5	10043.8	10136.1	10258.5	10466.8	10642.9	10675.1	10973.6	11242.1	11452.5
10°	9691.6	9702.3	9775.3	9884.9	10028.7	10249.9	10484.0	10520.5	10952.2	11392.4	11727.4
12.5°	9498.3	9524.1	9590.6	9689.4	9867.7	10136.1	10432.5	10481.9	10997.2	11607.1	12058.1
15°	9620.7	9663.7	9670.1	9710.9	9809.7	10101.7	10462.5	10514.1	11093.9	11826.2	12433.9
17.5°	10157.6	10172.6	10106.0	10020.1	9972.9	10159.7	10552.7	10606.4	11209.8	12043.1	12794.7
20°	10973.6	10965.0	10821.2	10589.2	10348.7	10378.8	10700.9	10756.7	11366.6	12234.2	13155.5
22.5°	12004.4	11974.4	11753.2	11325.8	10915.6	10743.8	10960.7	11008.0	11602.8	12506.9	13542.0
25°	13254.3	13187.7	12895.6	12322.2	11718.8	11276.4	11351.6	11396.7	11946.4	12811.9	13896.3
27.5°	14572.8	14506.2	14134.7	13441.1	12637.9	11948.6	11890.6	11929.3	12337.3	13037.4	14158.3
30°	15951.5	15880.6	15541.3	14763.9	13612.9	12644.4	12393.1	12408.1	12612.2	13159.8	14373.1
32.5°	17336.6	17270.0	16889.9	15988.0	14671.6	13391.7	12756.0	12736.7	12777.5	13286.5	14615.8
35°	18741.1	18766.8	18322.3	17323.7	15844.1	14222.8	13185.5	13144.7	13054.5	13546.3	14959.4
37.5°	20244.3	20227.1	19651.6	18607.9	17070.3	15124.7	13801.9	13795.4	13484.0	14038.1	15498.4
40°	21249.3	21260.1	20910.0	19922.2	18309.4	16123.3	14592.1	14577.1	14169.1	14774.7	16204.9
42.5°	21642.3	21713.2	21803.4	21176.3	19606.5	17280.8	15534.9	15513.4	15124.7	15831.2	17036.0
45°	21670.2	21812.0	22370.3	22290.8	20920.8	18605.8	16739.6	16679.5	16400.3	17235.7	18028.1
47.5°	21429.7	21575.7	22503.4	22954.4	22095.4	20003.8	18148.4	18101.1	17860.6	18992.3	19101.8
50°	20903.6	21043.2	22228.6	23278.7	23061.8	21348.1	19771.9	19647.3	19518.5	21021.7	20330.2
52.5°	19917.9	20186.3	21861.4	23356.0	23639.5	22542.1	21479.1	21397.5	21468.4	23162.7	21560.7
55°	17583.6	17884.2	20914.3	23291.6	24066.8	23545.0	23186.3	23182.1	23549.3	25409.0	22881.4
57.5°	16275.8	16488.4	18985.9	23182.1	24573.6	24541.4	24876.4	24917.2	25632.3	27855.0	24264.4
60°	15537.0	15760.4	18008.8	22776.2	25359.6	25829.9	26600.8	26682.4	27749.7	30562.9	25928.7
62.5°	14864.9	15109.7	17403.2	21949.4	26285.2	27672.4	28666.7	28739.7	29991.7	33346.1	27537.1
65°	13716.0	13993.0	16516.3	21406.1	27127.0	30075.5	31293.1	31342.5	32566.5	36262.4	28767.7
67.5°	12092.5	12345.9	14843.4	20205.6	27749.7	32993.9	34784.9	34812.8	35119.9	38321.8	29396.9
70°	10196.2	10292.9	12459.7	17727.5	27013.2	35723.3	38611.7	38618.1	37447.8	39640.3	29293.8
72.5°	7164.0	7391.6	9045.2	13419.6	23214.3	35390.5	40598.1	40671.1	38530.1	38974.6	26953.0
75°	4393.7	4634.3	5673.6	8132.5	14727.4	27833.5	37510.0	38016.9	36500.7	34750.5	22018.1
77.5°	2937.8	3027.9	3702.3	4741.6	6672.2	16013.8	28838.5	29792.0	30322.4	25342.4	14081.0
80°	1638.5	1810.3	2454.6	2946.3	2967.8	6363.0	17291.5	17514.9	16870.6	10091.0	4344.4
82.5°	867.6	962.1	1638.5	1730.9	1619.2	2130.3	6444.6	6451.0	5390.2	2705.8	1290.6
85°	672.2	751.6	1123.1	1056.6	826.8	944.9	2126.0	2242.0	1833.9	1108.1	420.9
87.5°	335.0	416.6	762.4	670.0	324.3	270.6	760.2	811.7	723.7	433.8	152.5
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°	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1	11214.1
2.5°	11242.1	11261.4	11285.0	11259.2	11250.7	11216.3	11158.3	11145.4	11115.4	11117.5	11134.7
5°	11340.8	11373.1	11360.2	11261.4	11143.3	10977.9	10806.1	10660.1	10563.5	10557.0	10550.6
7.5°	11529.8	11551.3	11450.4	11169.0	10838.3	10456.1	10095.3	9779.6	9588.5	9541.3	9530.5
10°	11826.2	11821.9	11544.9	10977.9	10318.6	9635.7	9055.9	8617.8	8362.3	8287.1	8267.8
12.5°	12156.9	12107.5	11577.1	10630.0	9584.2	8637.2	7902.7	7415.3	7149.0	7063.1	7041.6
15°	12498.3	12375.9	11497.6	10110.3	8682.3	7561.3	6790.3	6339.4	6195.5	6148.2	6139.6
17.5°	12816.2	12579.9	11270.0	9406.0	7653.6	6489.7	5888.4	5708.0	5742.4	5804.6	5806.8
20°	13127.5	12717.4	10904.9	8516.9	6569.1	5607.1	5403.1	5536.2	5699.4	5826.1	5843.3
22.5°	13434.6	12814.0	10434.6	7490.4	5598.5	5111.0	5254.9	5497.6	5684.4	5821.8	5845.4
25°	13692.3	12837.6	9786.1	6395.2	4924.2	4924.2	5184.0	5413.8	5598.5	5733.8	5757.4
27.5°	13786.8	12678.7	8871.2	5381.6	4584.9	4838.3	5085.2	5276.4	5433.1	5577.0	5602.8
30°	13823.3	12384.5	7814.7	4567.7	4445.3	4745.9	4952.1	5115.3	5263.5	5398.8	5422.4
32.5°	13829.8	12030.2	6693.7	4106.0	4348.6	4649.3	4786.7	4930.6	5089.5	5143.2	5151.8
35°	13870.6	11611.4	5512.6	3869.8	4258.5	4559.1	4668.6	4771.7	4514.0	4533.3	4550.5
37.5°	13988.7	11197.0	4524.7	3736.6	4200.5	4511.9	4642.9	4269.2	4067.3	4020.1	4013.6
40°	14209.9	10754.6	3792.5	3629.2	4179.0	4535.5	4477.5	3985.7	3637.8	3378.0	3339.3
42.5°	14517.0	10277.8	3324.3	3558.4	4194.0	4649.3	4247.7	3713.0	3135.3	2967.8	2946.3
45°	14862.7	9777.5	3070.9	3509.0	4245.6	4737.3	4200.5	3350.1	2901.2	2774.5	2763.8
47.5°	15197.7	9165.4	2939.9	3487.5	4316.4	4666.5	4000.8	3238.4	2789.6	2723.0	2729.4
50°	15582.1	8613.5	2860.4	3463.9	4378.7	4621.4	3775.3	3180.4	2746.6	2828.2	2914.1
52.5°	15906.4	8042.3	2789.6	3416.6	4402.3	4541.9	3717.3	3191.2	2746.6	2903.4	2985.0
55°	16290.8	7610.7	2708.0	3317.9	4357.2	4316.4	3676.5	3255.6	2778.8	2680.1	2688.6
57.5°	16786.9	7468.9	2617.8	3163.2	4206.9	3987.9	3657.2	3317.9	2759.5	2697.2	2718.7
60°	17474.1	7619.3	2581.3	2961.4	3972.8	3730.2	3659.3	3285.6	2624.2	2516.8	2519.0
62.5°	18129.0	7786.8	2579.1	2834.7	3685.1	3500.4	3609.9	3180.4	2555.5	2493.2	2516.8
65°	18343.8	7617.1	2476.0	2692.9	3360.8	3225.5	3519.7	3068.7	2504.0	2409.5	2405.2
67.5°	18056.0	7091.0	2267.7	2463.2	2989.3	2905.5	3401.6	2935.6	2422.4	2345.0	2332.2
70°	17201.3	5916.3	2010.0	2160.4	2566.2	2544.8	3214.8	2781.0	2312.8	2246.3	2190.4
72.5°	14901.4	4215.5	1694.4	1797.4	2089.5	2158.2	2957.1	2579.1	2158.2	2014.3	1928.4
75°	12238.5	3120.3	1391.6	1413.0	1587.0	1773.8	2602.7	2342.9	1975.7	1730.9	1664.3
77.5°	7494.7	1909.1	1108.1	1116.7	1138.2	1415.2	2143.2	2078.8	1743.8	1443.1	1395.9
80°	2426.7	1041.5	801.0	841.8	777.4	1037.2	1657.9	1769.5	1496.8	1206.9	1155.3
82.5°	923.4	607.7	541.2	569.1	539.0	695.8	1209.0	1417.3	1226.2	992.1	807.5
85°	446.7	343.6	320.0	358.6	332.9	356.5	773.1	1043.7	929.9	646.4	601.3
87.5°	158.9	152.5	122.4	165.4	141.7	126.7	236.2	526.1	614.2	444.5	397.3
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)