

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: McGRAW-EDISON

Report Number: P383105

Luminaire Tested: **GLEON-SA4C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21758.2 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

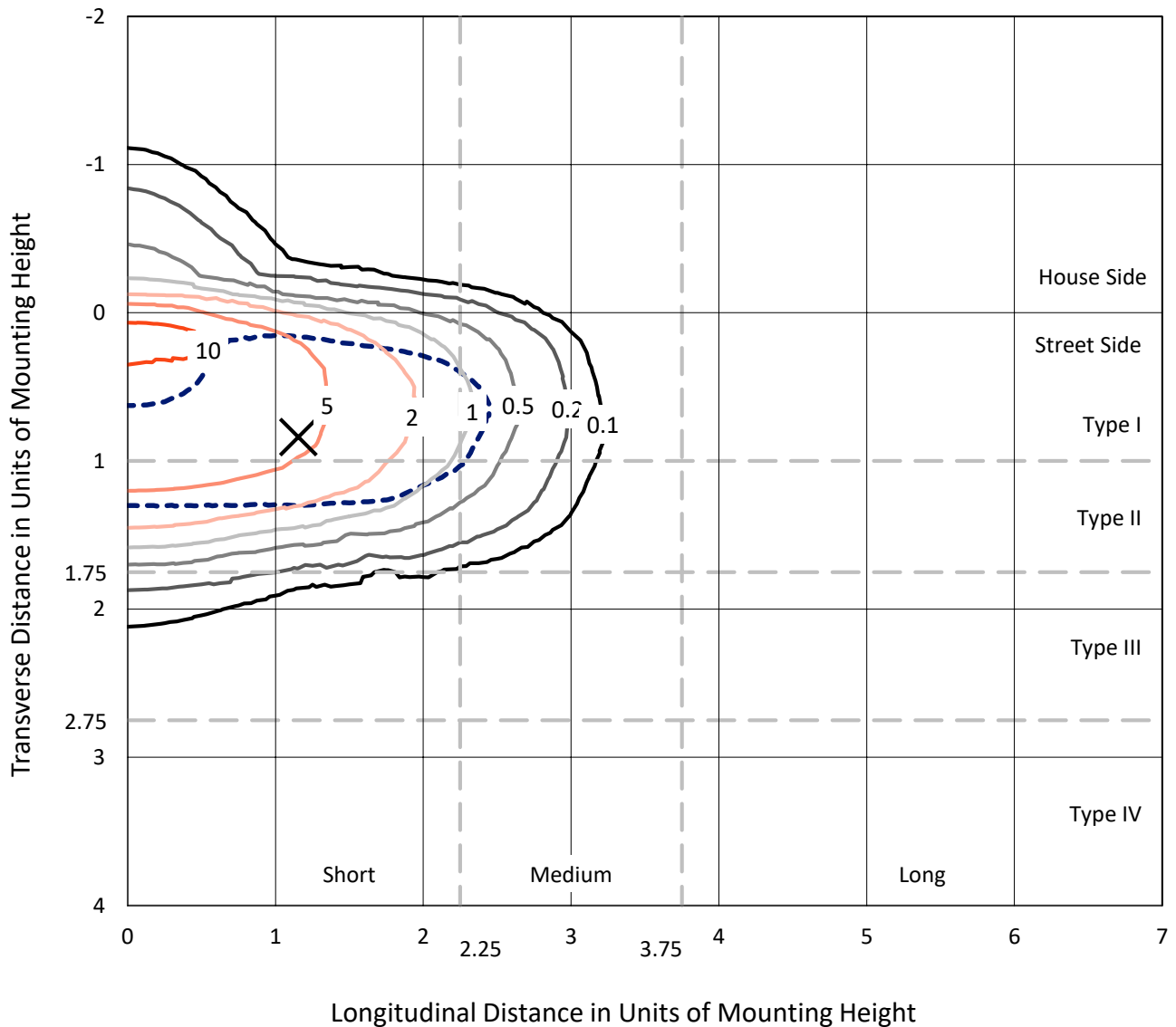
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

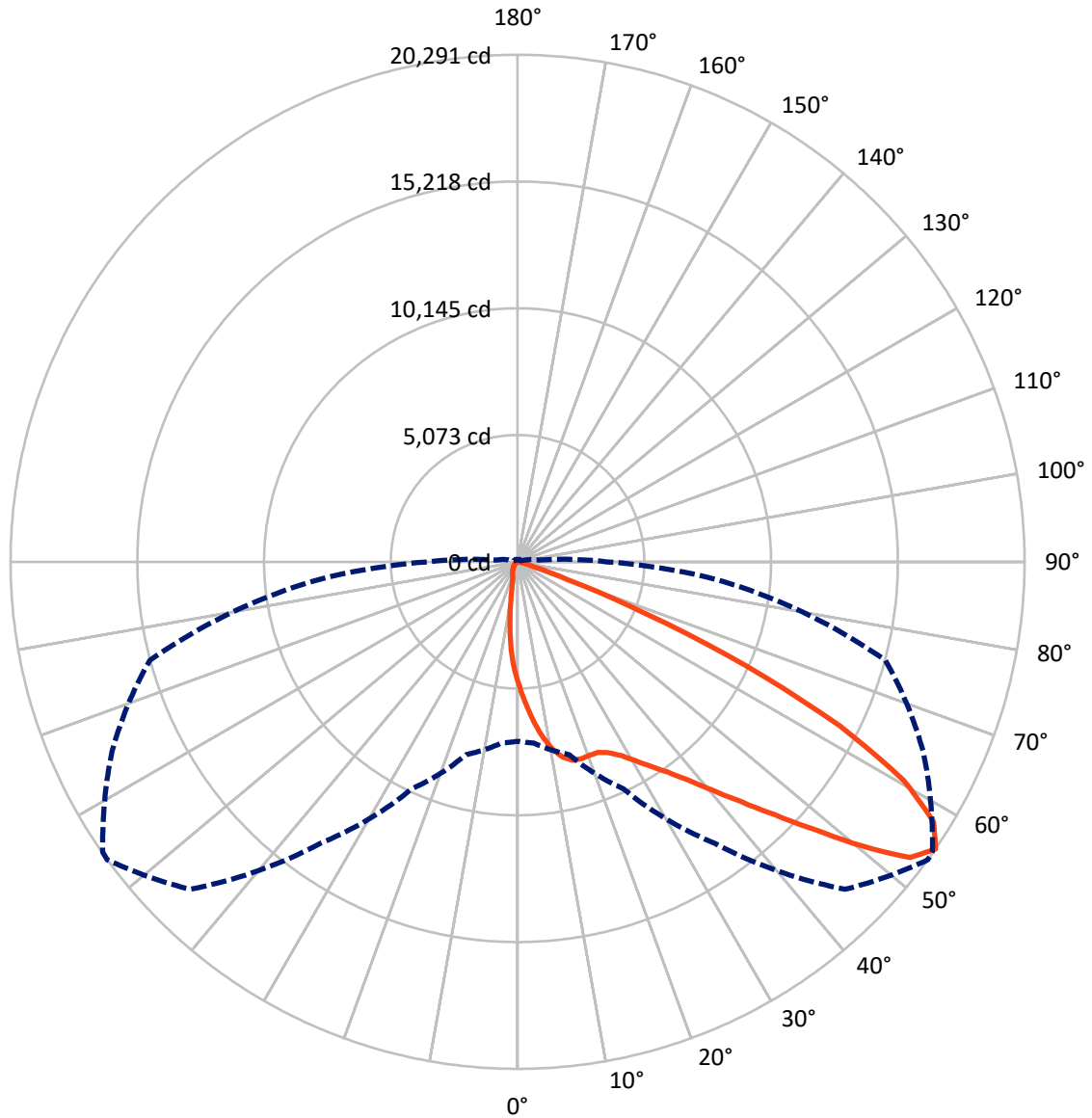
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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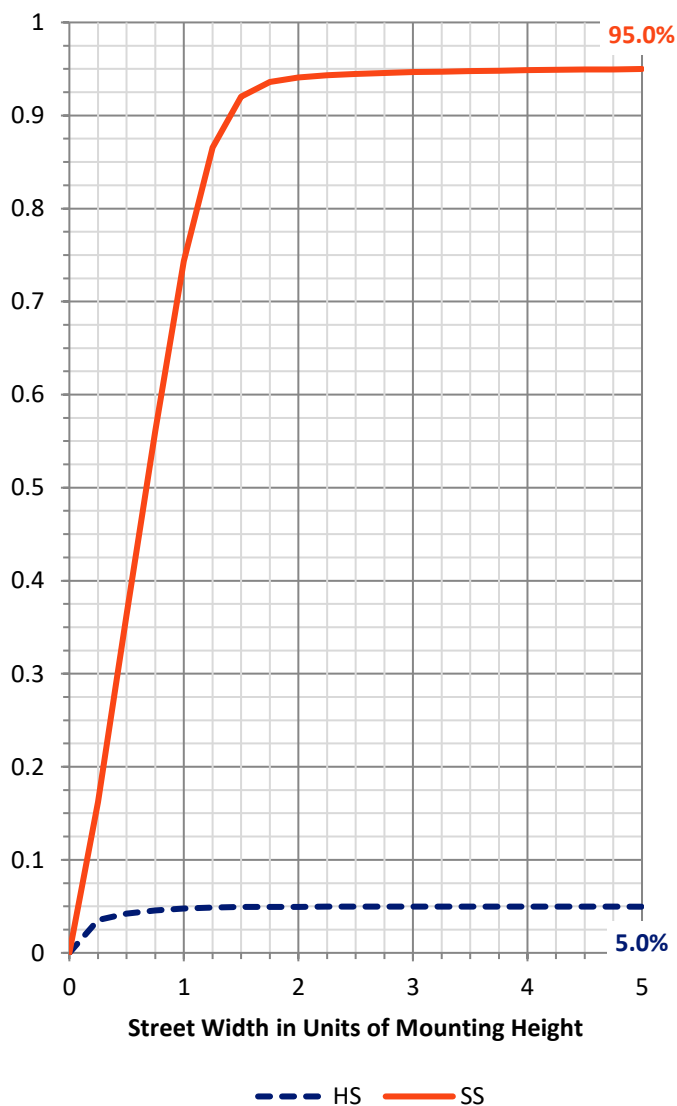
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.6	0.0	1085.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20672.6	0.0	20672.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	21758.2	0.0	21758.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	2.1
10°-20°	1230.7	5.7
20°-30°	2101.2	9.7
30°-40°	3372.1	15.5
40°-50°	5388.6	24.8
50°-60°	5774.0	26.5
60°-70°	2964.5	13.6
70°-80°	449.1	2.1
80°-90°	29.2	0.1
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°	21758.2	100.0
0°-180°	21758.2	100.0

Coefficient of Utilization



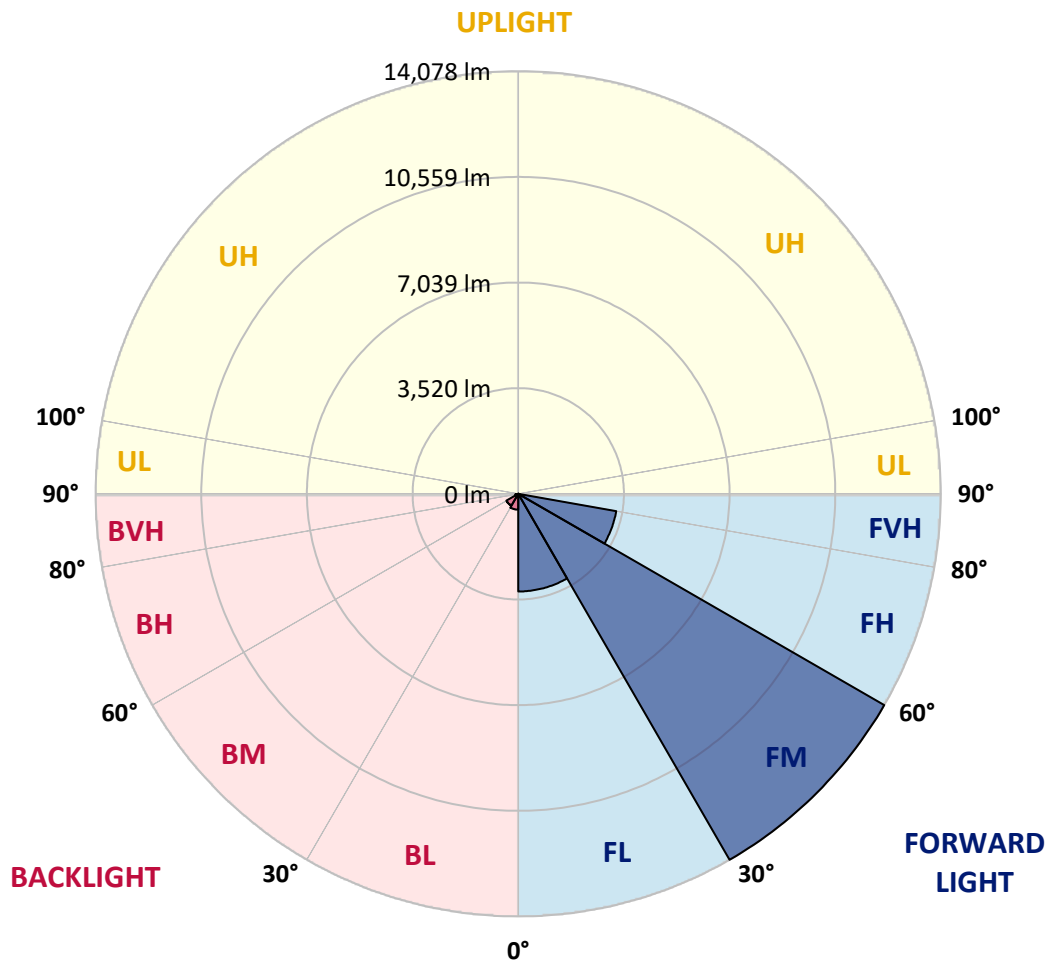
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.5	14.9			
FM (30°-60°)	14078.5	64.7			
FH (60°-80°)	3313.6	15.2			G2/5000
FVH (80°-90°)	28.1	0.1			G1/100
BL (0°-30°)	528.2	2.4	B2/1000		
BM (30°-60°)	456.2	2.1	B1/1000		
BH (60°-80°)	100.0	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9
2.5°	6115.1	6024.0	6026.8	5985.5	5834.2	5715.8	5592.7	5563.6	5371.9	5170.8	4977.3
5°	7172.3	7105.6	7089.5	7009.7	6799.2	6576.5	6337.9	6282.5	5907.5	5495.9	5090.9
7.5°	7715.4	7716.3	7703.2	7674.0	7542.5	7326.3	7035.0	6976.8	6466.6	5849.3	5209.3
10°	7557.5	7593.2	7666.5	7763.2	7863.8	7836.6	7617.6	7565.0	7010.6	6223.2	5340.9
12.5°	7189.1	7193.9	7275.6	7434.4	7723.8	8020.7	8024.5	8006.7	7530.3	6614.1	5485.6
15°	7005.9	7023.8	7053.9	7156.2	7430.7	7906.1	8246.2	8271.6	8006.7	7029.5	5639.7
17.5°	7126.2	7151.6	7126.2	7138.4	7297.2	7724.8	8284.8	8349.6	8422.9	7440.1	5785.4
20°	7452.3	7475.8	7430.7	7380.8	7411.9	7672.1	8257.5	8344.9	8748.9	7804.6	5907.5
22.5°	7892.0	7901.4	7832.8	7751.0	7728.5	7850.6	8280.1	8370.2	9010.2	8134.5	5984.5
25°	8375.9	8384.4	8298.9	8204.9	8151.3	8201.2	8465.2	8532.9	9240.4	8449.2	6028.7
27.5°	8903.1	8910.5	8803.5	8687.9	8625.9	8627.7	8770.5	8842.9	9485.7	8808.2	6064.4
30°	9460.2	9456.5	9357.9	9197.2	9118.3	9116.3	9210.3	9283.6	9840.8	9268.6	6113.3
32.5°	10086.1	10078.5	9938.5	9739.3	9650.1	9663.2	9746.9	9789.2	10281.5	9759.1	6200.7
35°	10910.1	10888.5	10677.1	10430.0	10265.6	10260.8	10331.3	10365.1	10843.4	10352.9	6346.3
37.5°	11979.4	11959.7	11673.1	11314.2	11083.0	10996.5	11080.2	11123.4	11644.9	11114.9	6580.3
40°	13033.7	13014.0	12843.9	12515.1	12158.9	11951.2	12017.0	12063.1	12645.7	12039.6	6875.3
42.5°	13761.0	13777.9	13837.1	13864.3	13530.7	13094.8	13124.9	13172.7	13697.1	13028.1	7212.7
45°	13952.6	13989.3	14323.8	14980.6	15105.6	14765.4	14450.6	14477.0	14765.4	14016.5	7550.0
47.5°	13376.7	13444.3	14089.8	15311.4	16369.4	16610.0	16014.2	15979.5	15790.6	14816.2	7789.6
50°	12067.7	12129.8	12966.0	14772.9	16752.8	18370.9	17887.9	17785.5	16689.8	15294.4	7874.2
52.5°	10173.4	10248.6	10928.0	13077.9	16030.2	19156.3	19661.9	19576.4	17349.4	15332.1	7888.3
55°	7184.5	7275.6	7994.4	10023.1	13740.3	18531.5	20290.5	20265.2	17897.3	15232.5	7918.3
57.5°	4037.6	4103.4	4878.6	6425.3	10063.5	16141.1	19633.7	19801.9	18228.0	15059.6	7963.4
60°	1792.9	1810.6	2211.9	3198.6	5891.5	12335.6	17753.5	18037.3	17944.2	14828.4	8039.5
62.5°	994.1	979.1	979.1	1329.6	2560.5	7636.5	14477.0	14945.8	16733.0	14555.0	8043.3
65°	779.0	764.9	724.5	730.1	975.3	3389.2	10024.9	10858.4	14432.8	13753.5	7772.6
67.5°	660.6	648.4	607.9	592.0	606.1	1118.1	5508.1	6373.6	10951.5	11670.2	6732.5
70°	558.2	549.7	529.0	509.3	473.6	552.5	2107.6	2695.8	6748.5	7763.2	4595.8
72.5°	449.2	445.4	452.9	436.0	392.7	368.3	720.7	873.0	3031.3	3464.4	1893.4
75°	387.2	385.3	389.0	372.1	323.2	256.5	366.5	400.3	855.1	847.5	383.3
77.5°	251.8	254.7	322.3	314.8	278.2	171.0	189.8	204.8	259.3	194.5	116.5
80°	160.7	158.8	163.5	261.2	249.9	130.6	94.9	99.6	125.0	95.9	56.4
82.5°	97.7	95.9	107.1	122.1	125.9	91.1	58.2	59.2	78.0	62.0	30.1
85°	8.5	11.3	64.8	60.2	43.2	28.2	28.2	30.1	41.4	36.6	17.0
87.5°	0.0	0.0	11.3	17.0	9.4	10.3	10.3	11.3	15.9	15.9	8.5
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°	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9	4872.9
2.5°	4876.7	4779.0	4581.6	4391.9	4231.2	4076.2	3899.5	3724.7	3643.0	3610.1	3576.2
5°	4885.1	4684.1	4277.2	3867.5	3442.8	3060.4	2734.4	2399.9	2232.5	2159.3	2125.4
7.5°	4896.4	4590.1	3932.3	3244.6	2560.5	2041.9	1588.9	1297.6	1171.7	1152.0	1103.1
10°	4898.4	4476.5	3532.1	2556.7	1716.7	1230.9	947.2	796.8	741.4	732.0	716.0
12.5°	4902.1	4342.0	3087.6	1893.4	1144.5	823.1	685.0	635.2	620.1	619.2	619.2
15°	4913.4	4201.1	2626.3	1364.3	822.2	652.1	601.4	581.7	576.0	578.8	577.8
17.5°	4913.4	4034.8	2173.4	1016.7	664.3	586.3	558.2	545.0	543.1	545.9	546.9
20°	4877.7	3832.8	1758.0	791.2	589.1	544.0	518.7	506.5	501.7	503.7	504.6
22.5°	4792.2	3584.7	1419.8	655.0	539.4	505.6	478.3	459.4	452.0	452.9	452.9
25°	4658.8	3290.6	1110.7	566.6	498.9	464.2	432.2	410.6	406.0	404.9	406.9
27.5°	4487.7	2965.5	884.2	498.9	451.1	418.2	386.2	368.3	364.6	365.5	366.5
30°	4319.5	2628.2	697.2	441.6	397.5	366.5	342.1	333.6	333.6	336.4	337.3
32.5°	4165.4	2304.0	551.6	391.8	349.5	321.4	307.2	306.3	311.0	312.9	313.8
35°	4032.9	2004.2	456.6	353.3	312.0	287.6	282.8	286.5	292.2	296.0	296.9
37.5°	3939.0	1736.4	399.4	321.4	282.8	263.1	262.1	269.7	277.2	285.6	287.6
40°	3899.5	1510.0	359.9	293.2	259.3	244.3	241.5	251.8	266.0	278.2	280.0
42.5°	3866.6	1324.8	326.0	266.0	240.5	218.9	218.0	231.1	248.1	260.3	263.1
45°	3838.4	1176.5	295.0	236.8	216.1	187.9	190.8	207.6	220.8	234.0	236.8
47.5°	3780.1	1054.2	261.2	205.8	178.5	160.7	166.3	181.4	191.7	211.5	214.3
50°	3675.9	954.6	226.5	168.2	145.6	139.1	147.6	157.9	171.0	187.9	189.8
52.5°	3605.4	879.5	196.4	140.9	120.3	122.1	130.6	134.3	141.9	148.5	146.6
55°	3564.9	838.1	172.0	122.1	102.4	108.1	109.9	105.3	101.4	94.9	92.1
57.5°	3560.3	800.6	153.1	106.2	90.2	93.1	86.4	70.5	57.3	49.8	47.9
60°	3552.7	754.6	138.1	89.2	79.8	76.1	62.0	38.6	27.3	25.3	25.3
62.5°	3471.0	683.1	126.9	75.2	67.6	57.3	35.7	17.9	15.0	15.9	15.9
65°	3210.8	583.5	115.6	61.1	53.6	41.4	17.9	10.3	5.7	6.6	6.6
67.5°	2729.6	465.1	103.4	46.9	40.4	26.3	10.3	4.7	0.0	0.0	0.0
70°	1827.6	288.5	87.4	32.9	26.3	15.9	7.5	0.9	0.0	0.0	0.0
72.5°	701.0	155.9	70.5	19.7	17.0	11.3	4.7	0.0	0.0	0.0	0.0
75°	157.9	102.4	48.9	14.1	12.2	7.5	1.9	0.0	0.0	0.0	0.0
77.5°	60.2	74.2	28.2	9.4	8.5	4.7	0.0	0.0	0.0	0.0	0.0
80°	29.2	44.2	13.1	5.7	4.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	15.0	17.0	5.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	8.5	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.8	0.9	0.9	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)