

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: P324920

Luminaire Tested: **GLEON-SA6B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324920
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-SA6B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 20569 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

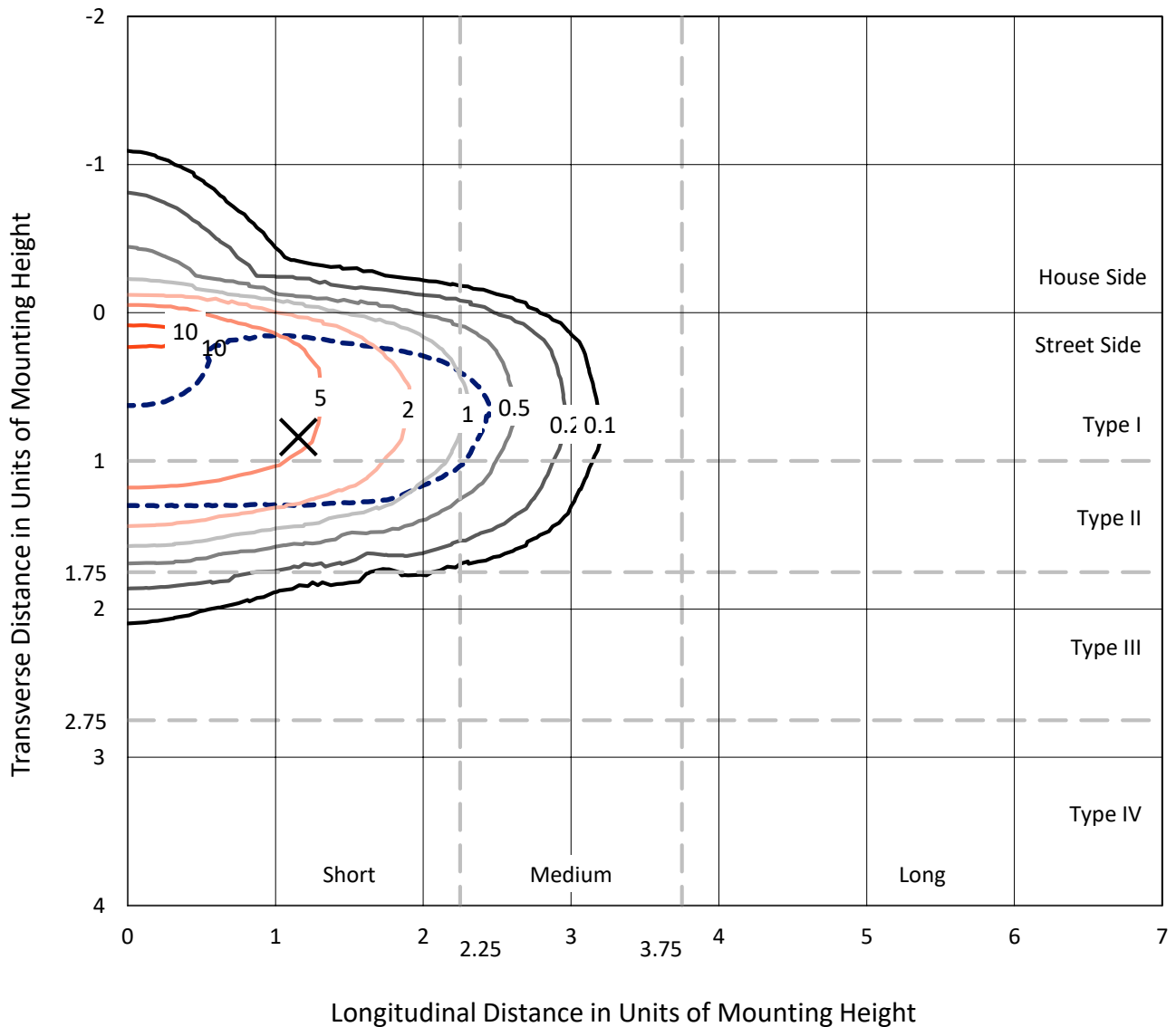
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

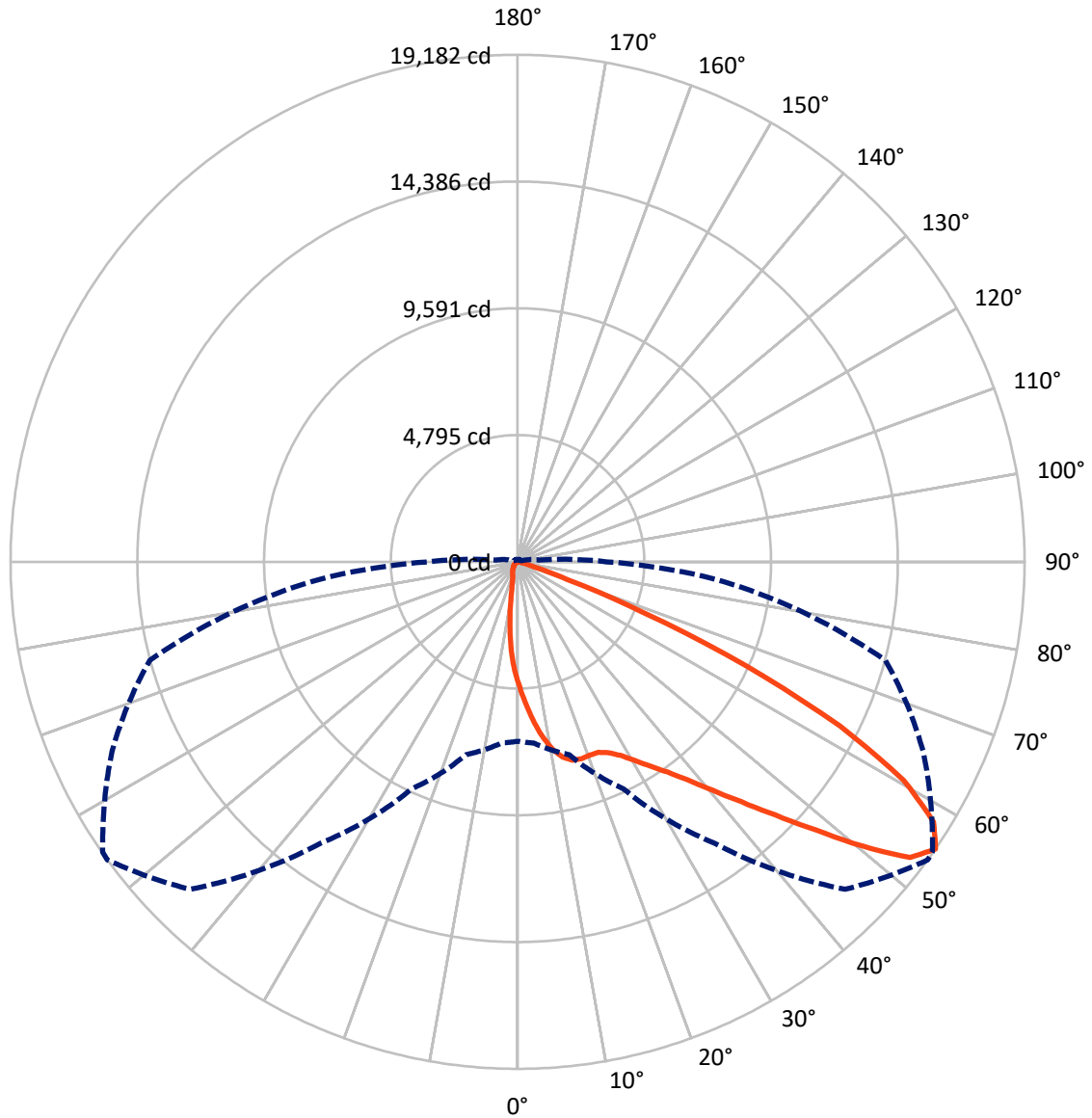
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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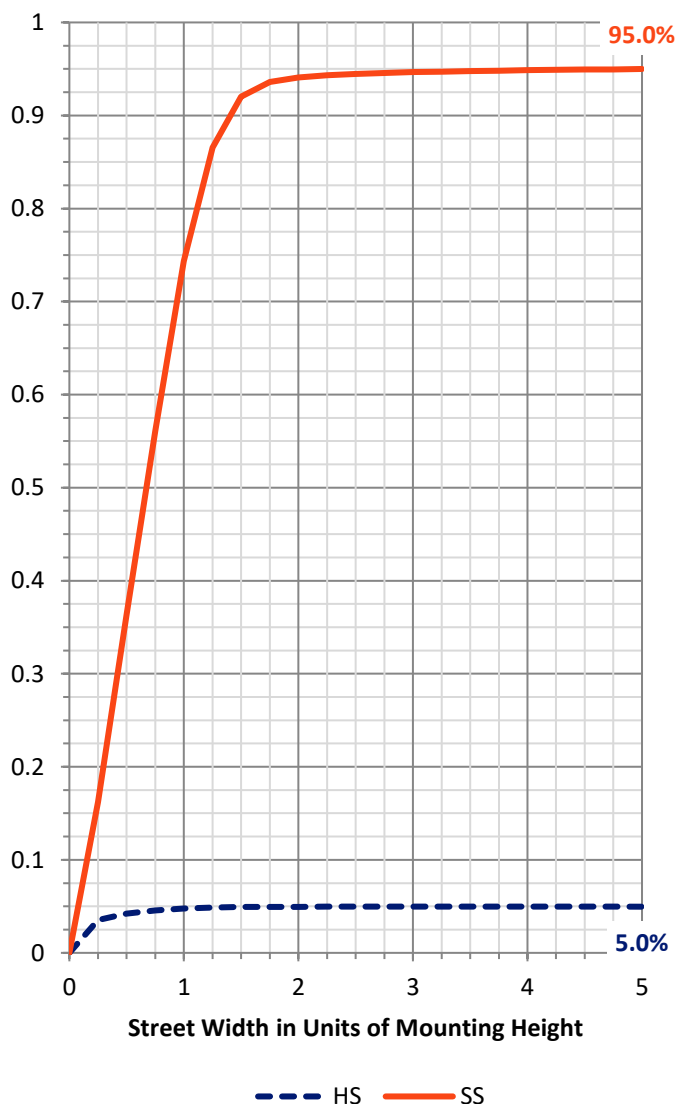
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1026.2	0.0	1026.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19542.8	0.0	19542.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	20569.0	0.0	20569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	2.1
10°-20°	1163.4	5.7
20°-30°	1986.4	9.7
30°-40°	3187.8	15.5
40°-50°	5094.1	24.8
50°-60°	5458.4	26.5
60°-70°	2802.5	13.6
70°-80°	424.5	2.1
80°-90°	27.6	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°	20569.0	100.0
0°-180°	20569.0	100.0

Coefficient of Utilization



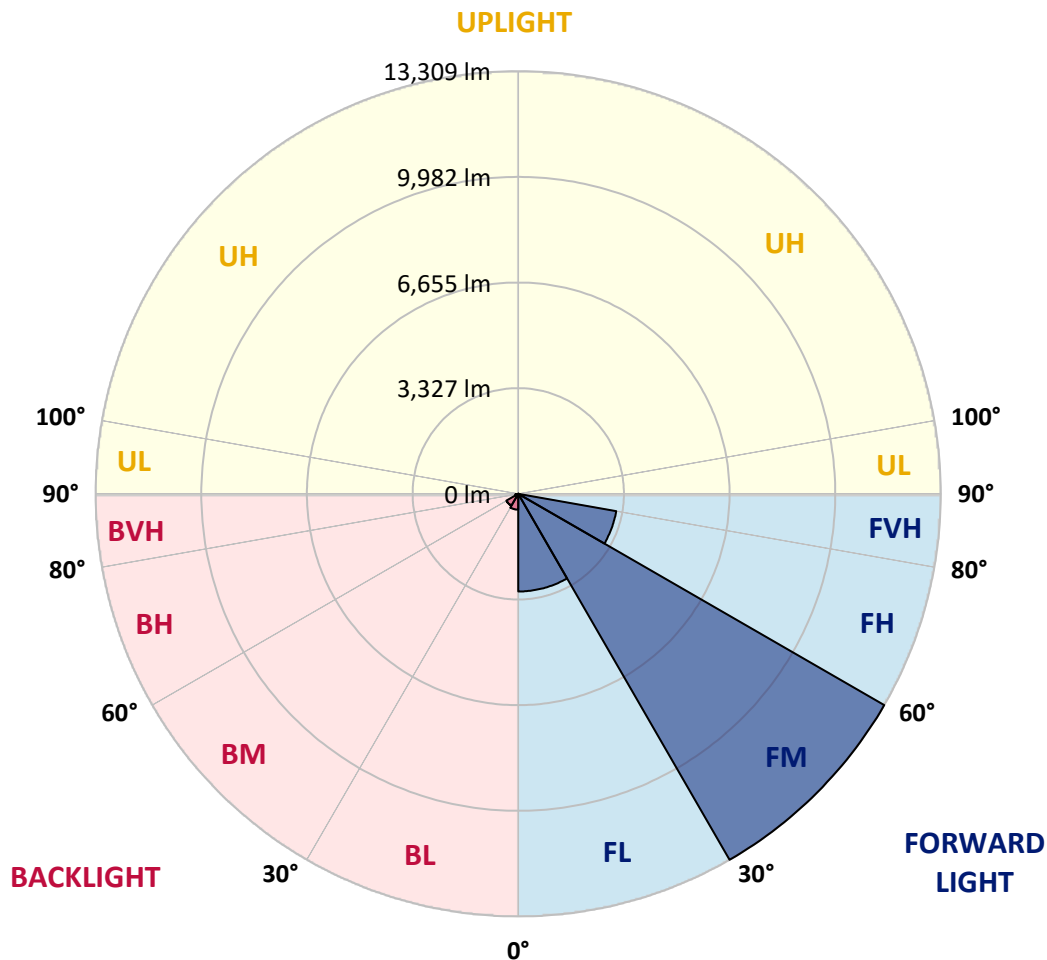
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3074.7	14.9			
FM (30°-60°)	13309.1	64.7			
FH (60°-80°)	3132.5	15.2			G2/5000
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	499.3	2.4	B1/500		
BM (30°-60°)	431.2	2.1	B1/1000		
BH (60°-80°)	94.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	5780.9	5694.8	5697.4	5658.4	5515.3	5403.4	5287.1	5259.5	5078.3	4888.2	4705.2
5°	6780.3	6717.2	6702.1	6626.6	6427.6	6217.1	5991.5	5939.1	5584.6	5195.6	4812.7
7.5°	7293.7	7294.6	7282.1	7254.6	7130.2	6925.9	6650.6	6595.5	6113.2	5529.6	4924.6
10°	7144.5	7178.2	7247.5	7339.0	7434.0	7408.3	7201.3	7151.6	6627.5	5883.1	5049.0
12.5°	6796.2	6800.7	6878.0	7028.1	7301.7	7582.4	7585.9	7569.1	7118.7	6252.6	5185.8
15°	6623.0	6639.9	6668.3	6765.2	7024.5	7474.0	7795.6	7819.5	7569.1	6645.2	5331.5
17.5°	6736.7	6760.7	6736.7	6748.3	6898.4	7302.6	7832.0	7893.3	7962.6	7033.4	5469.2
20°	7045.0	7067.2	7024.5	6977.5	7006.8	7252.8	7806.2	7888.8	8270.8	7378.1	5584.6
22.5°	7460.7	7469.6	7404.7	7327.4	7306.1	7421.6	7827.5	7912.8	8517.7	7689.9	5657.5
25°	7918.1	7926.1	7845.3	7756.5	7705.8	7752.9	8002.5	8066.5	8735.4	7987.4	5699.2
27.5°	8416.5	8423.6	8322.3	8213.1	8154.4	8156.2	8291.2	8359.6	8967.2	8326.8	5733.0
30°	8943.2	8939.7	8846.4	8694.5	8619.9	8618.1	8706.9	8776.2	9303.0	8762.0	5779.2
32.5°	9534.8	9527.7	9395.4	9207.0	9122.7	9135.1	9214.1	9254.1	9719.6	9225.7	5861.8
35°	10313.8	10293.4	10093.5	9859.9	9704.5	9700.0	9766.7	9798.6	10250.8	9787.1	5999.5
37.5°	11324.7	11306.1	11035.1	10695.8	10477.3	10395.6	10474.6	10515.5	11008.5	10507.5	6220.6
40°	12321.4	12302.7	12141.9	11831.0	11494.4	11298.1	11360.2	11403.8	11954.5	11381.6	6499.6
42.5°	13008.9	13024.9	13080.8	13106.6	12791.3	12379.1	12407.5	12452.8	12948.5	12316.0	6818.5
45°	13190.1	13224.7	13541.0	14161.9	14280.0	13958.5	13660.9	13685.8	13958.5	13250.5	7137.3
47.5°	12645.6	12709.5	13319.8	14474.6	15474.8	15702.2	15139.0	15106.1	14927.6	14006.4	7363.9
50°	11408.2	11466.8	12257.4	13965.6	15837.2	17366.8	16910.2	16813.4	15777.7	14458.6	7443.8
52.5°	9617.4	9688.5	10330.7	12363.1	15154.1	18109.4	18587.3	18506.5	16401.2	14494.1	7457.1
55°	6791.8	6878.0	7557.5	9475.3	12989.3	17518.7	19181.6	19157.6	16919.1	14399.9	7485.6
57.5°	3816.9	3879.1	4612.0	6074.1	9513.5	15258.9	18560.7	18719.7	17231.8	14236.5	7528.2
60°	1694.8	1711.7	2091.0	3023.7	5569.5	11661.4	16783.2	17051.5	16963.5	14018.0	7600.1
62.5°	939.8	925.6	925.6	1256.9	2420.6	7219.1	13685.8	14129.0	15818.5	13759.5	7603.7
65°	736.4	723.1	684.9	690.2	922.0	3204.0	9477.1	10265.0	13644.0	13001.8	7347.9
67.5°	624.5	612.9	574.7	559.6	572.9	1057.1	5207.1	6025.2	10352.9	11032.5	6364.5
70°	527.6	519.6	500.1	481.4	447.7	522.3	1992.4	2548.5	6379.6	7339.0	4344.6
72.5°	424.6	421.0	428.2	412.2	371.3	348.2	681.3	825.2	2865.6	3275.1	1789.9
75°	366.0	364.2	367.7	351.8	305.6	242.5	346.4	378.4	808.3	801.2	362.4
77.5°	238.1	240.7	304.7	297.6	262.9	161.7	179.4	193.6	245.2	183.9	110.1
80°	151.9	150.1	154.6	246.9	236.3	123.5	89.7	94.2	118.1	90.6	53.3
82.5°	92.4	90.6	101.3	115.5	119.0	86.2	55.1	56.0	73.7	58.6	28.4
85°	8.0	10.7	61.3	56.9	40.9	26.6	26.6	28.4	39.1	34.6	16.0
87.5°	0.0	0.0	10.7	16.0	8.9	9.8	9.8	10.7	15.1	15.1	8.0
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°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	4610.2	4517.8	4331.3	4151.8	3999.9	3853.4	3686.4	3521.1	3443.9	3412.8	3380.8
5°	4618.2	4428.1	4043.5	3656.2	3254.7	2893.1	2584.9	2268.7	2110.6	2041.3	2009.3
7.5°	4628.8	4339.3	3717.5	3067.2	2420.6	1930.2	1502.1	1226.7	1107.7	1089.0	1042.8
10°	4630.6	4231.8	3339.1	2417.0	1622.9	1163.6	895.4	753.3	700.9	692.0	676.9
12.5°	4634.2	4104.8	2918.9	1789.9	1081.9	778.1	647.6	600.5	586.3	585.4	585.4
15°	4644.8	3971.5	2482.7	1289.8	777.2	616.5	568.5	549.8	544.5	547.2	546.3
17.5°	4644.8	3814.3	2054.6	961.1	628.0	554.3	527.6	515.2	513.4	516.1	517.0
20°	4611.1	3623.3	1662.0	747.9	557.0	514.3	490.3	478.8	474.3	476.1	477.0
22.5°	4530.2	3388.8	1342.2	619.1	509.9	477.9	452.1	434.4	427.3	428.2	428.2
25°	4404.1	3110.8	1049.9	535.6	471.7	438.8	408.6	388.2	383.7	382.8	384.6
27.5°	4242.4	2803.4	835.9	471.7	426.4	395.3	365.1	348.2	344.7	345.5	346.4
30°	4083.4	2484.5	659.1	417.5	375.7	346.4	323.3	315.3	315.3	318.0	318.9
32.5°	3937.8	2178.1	521.4	370.4	330.4	303.8	290.5	289.6	294.0	295.8	296.7
35°	3812.5	1894.7	431.7	334.0	294.9	271.8	267.4	270.9	276.3	279.8	280.7
37.5°	3723.7	1641.5	377.5	303.8	267.4	248.7	247.8	254.9	262.0	270.0	271.8
40°	3686.4	1427.5	340.2	277.1	245.2	231.0	228.3	238.1	251.4	262.9	264.7
42.5°	3655.3	1252.5	308.2	251.4	227.4	207.0	206.1	218.5	234.5	246.1	248.7
45°	3628.6	1112.1	278.9	223.8	204.3	177.7	180.3	196.3	208.7	221.2	223.8
47.5°	3573.6	996.7	246.9	194.5	168.8	151.9	157.2	171.4	181.2	199.9	202.5
50°	3475.0	902.5	214.1	159.0	137.7	131.5	139.5	149.2	161.7	177.7	179.4
52.5°	3408.3	831.4	185.7	133.2	113.7	115.5	123.5	127.0	134.1	140.3	138.6
55°	3370.1	792.3	162.6	115.5	96.8	102.2	103.9	99.5	95.9	89.7	87.1
57.5°	3365.7	756.8	144.8	100.4	85.3	87.9	81.7	66.6	54.2	47.1	45.3
60°	3358.6	713.3	130.6	84.4	75.5	72.0	58.6	36.4	25.8	24.0	24.0
62.5°	3281.3	645.8	119.9	71.1	64.0	54.2	33.8	16.9	14.2	15.1	15.1
65°	3035.3	551.6	109.3	57.7	50.6	39.1	16.9	9.8	5.3	6.2	6.2
67.5°	2580.5	439.7	97.7	44.4	38.2	24.9	9.8	4.4	0.0	0.0	0.0
70°	1727.7	272.7	82.6	31.1	24.9	15.1	7.1	0.9	0.0	0.0	0.0
72.5°	662.7	147.5	66.6	18.7	16.0	10.7	4.4	0.0	0.0	0.0	0.0
75°	149.2	96.8	46.2	13.3	11.5	7.1	1.8	0.0	0.0	0.0	0.0
77.5°	56.9	70.2	26.6	8.9	8.0	4.4	0.0	0.0	0.0	0.0	0.0
80°	27.5	41.7	12.4	5.3	4.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	16.0	5.3	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	8.0	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.7	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)