

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: P321093

Luminaire Tested: **GLEON-SA9C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47689 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

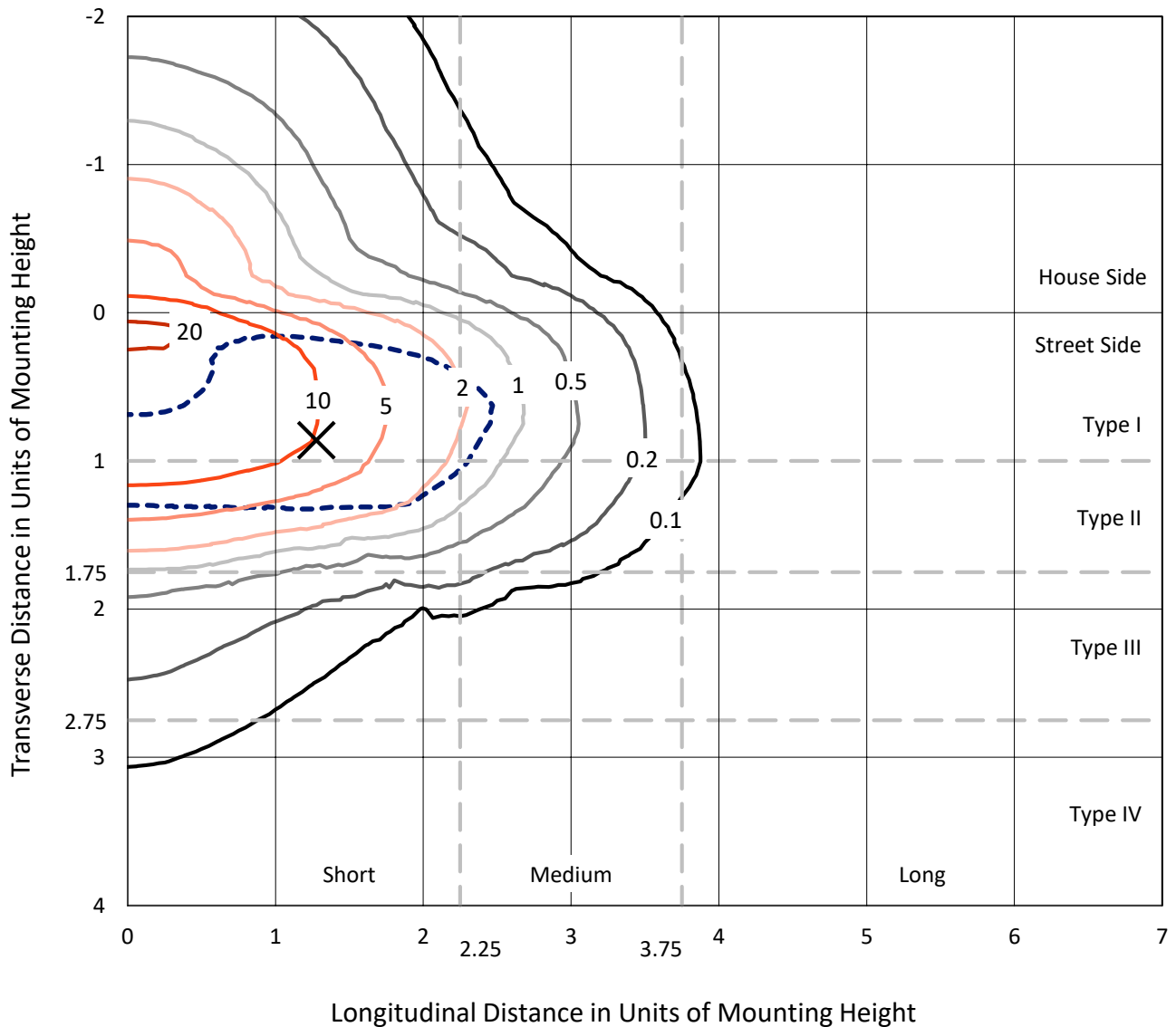
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321093
 CATALOG NUMBER: GLEON-SA9C-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

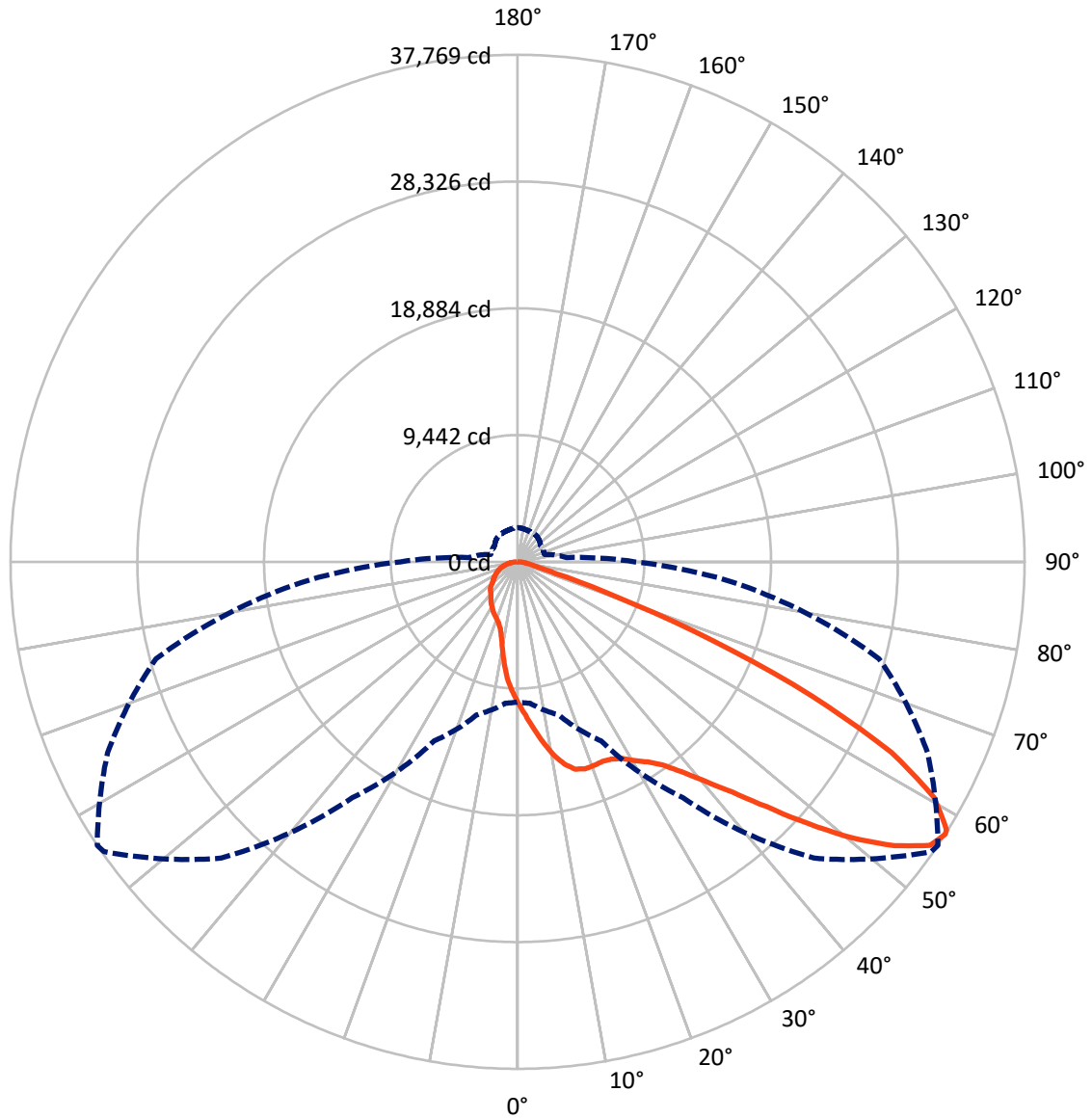
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

REPORT NUMBER: P321093
CATALOG NUMBER: GLEON-SA9C-827-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P321093
 CATALOG NUMBER: GLEON-SA9C-827-U-AFL

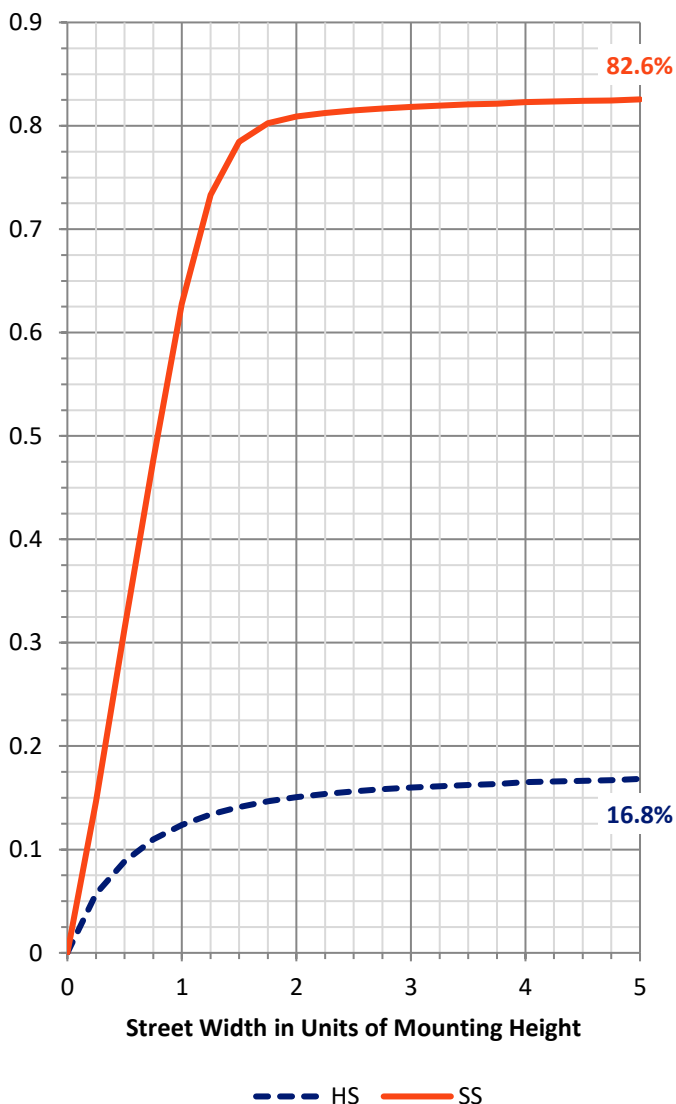
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8220.6	0.0	8220.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	39468.4	0.0	39468.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	47689.0	0.0	47689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.4	2.1
10°-20°	2856.7	6.0
20°-30°	4653.0	9.8
30°-40°	6955.7	14.6
40°-50°	10550.3	22.1
50°-60°	11825.0	24.8
60°-70°	6984.3	14.6
70°-80°	2288.3	4.8
80°-90°	565.4	1.2
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°	47689.0	100.0
0°-180°	47689.0	100.0

Coefficient of Utilization

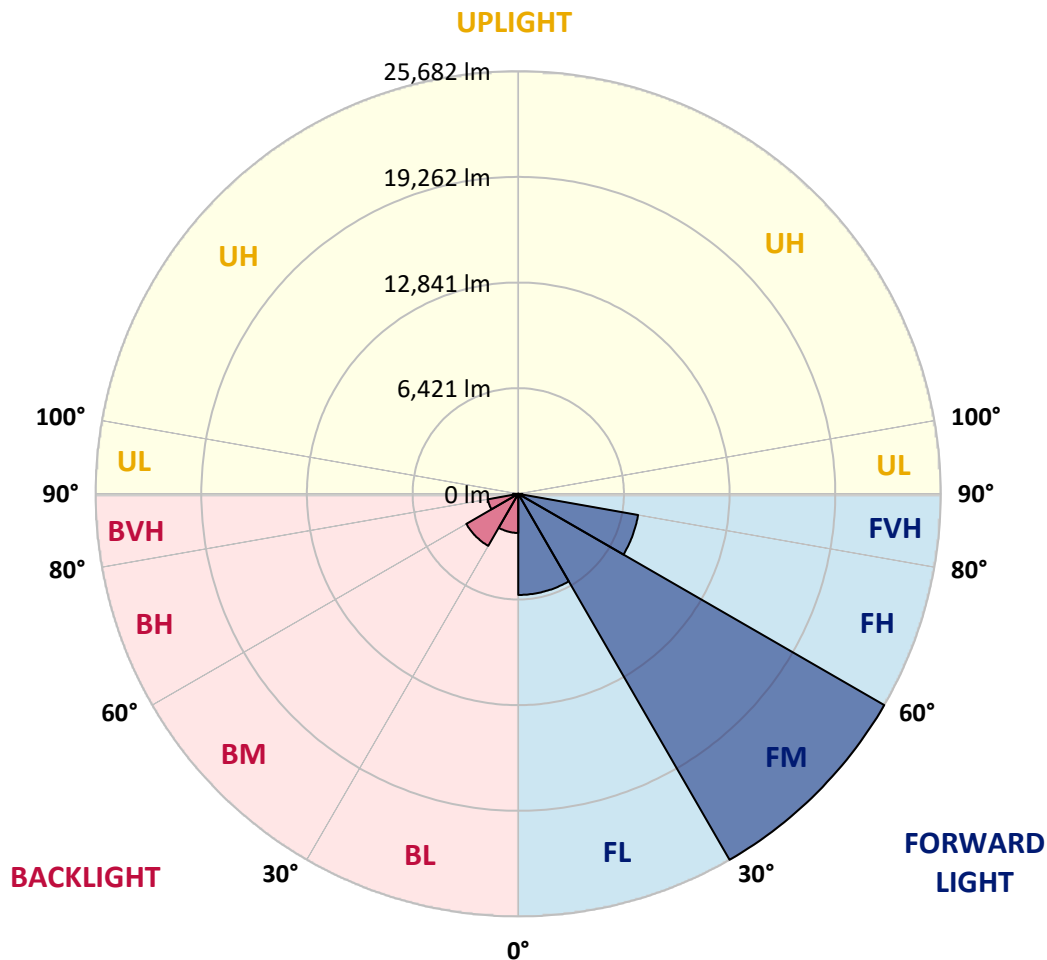


REPORT NUMBER: P321093
 CATALOG NUMBER: GLEON-SA9C-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6143.1	12.9			
FM (30°-60°)	25682.1	53.9			
FH (60°-80°)	7394.3	15.5			G3/7500
FVH (80°-90°)	248.9	0.5			G3/500
BL (0°-30°)	2377.0	5.0	B3/2500		
BM (30°-60°)	3648.8	7.7	B3/5000		
BH (60°-80°)	1878.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	316.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





REPORT NUMBER: P321093

CATALOG NUMBER: GLEON-SA9C-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5
2.5°	12145.9	12257.3	12208.2	12037.7	11906.6	11721.4	11514.9	11452.6	11234.7	10990.5	10697.1
5°	14068.3	14012.6	13932.3	13666.8	13386.5	13060.4	12542.5	12460.6	11975.4	11423.1	10839.7
7.5°	15163.1	15158.2	15110.7	14955.0	14699.3	14273.2	13648.8	13552.1	12819.5	11931.2	11026.5
10°	15004.1	14992.7	15071.3	15233.6	15310.6	15222.1	14696.0	14599.3	13699.6	12493.3	11242.9
12.5°	14101.1	14107.7	14233.9	14574.7	15038.6	15595.8	15510.6	15463.0	14612.4	13129.2	11505.1
15°	13398.0	13412.8	13512.7	13809.4	14356.8	15368.0	16005.5	16021.9	15495.8	13830.7	11811.6
17.5°	13089.9	13121.0	13166.9	13375.1	13876.6	14914.0	16123.5	16212.0	16269.4	14558.4	12106.6
20°	13188.2	13217.7	13230.8	13363.6	13775.0	14638.7	16041.6	16200.5	16862.6	15243.4	12401.6
22.5°	13629.1	13647.1	13655.3	13689.7	14009.3	14717.3	15987.5	16154.6	17292.0	15858.0	12624.5
25°	14360.0	14346.9	14294.5	14250.2	14464.9	15028.7	16112.0	16271.0	17641.1	16415.2	12770.3
27.5°	15235.2	15218.8	15117.2	14995.9	15118.9	15513.8	16470.9	16597.1	17954.2	16936.4	12844.1
30°	16285.8	16243.1	16051.4	15907.2	15954.7	16241.5	17062.6	17177.3	18437.6	17528.0	12916.2
32.5°	17500.2	17454.3	17177.3	16938.0	16938.0	17177.3	17672.3	17767.3	18847.4	18196.7	13032.5
35°	19021.1	18963.7	18603.2	18201.6	18088.5	18209.8	18503.2	18570.4	19584.9	19039.1	13244.0
37.5°	20814.0	20737.0	20269.9	19732.4	19484.9	19478.3	19689.8	19827.4	20763.2	20145.4	13602.9
40°	22611.9	22557.8	22149.7	21726.9	21241.8	21086.1	21412.2	21454.8	22303.8	21518.8	14061.8
42.5°	24001.7	23991.9	23916.5	23972.2	23475.6	23160.9	23416.6	23451.0	24185.3	23005.2	14550.2
45°	24735.9	24752.3	25117.8	25927.4	26111.0	25881.5	26007.7	26017.5	26335.5	24504.8	14997.6
47.5°	24147.6	24232.8	25157.1	26968.1	28471.0	29233.1	29023.3	29144.6	28420.2	25793.0	15348.3
50°	21854.7	21959.6	23533.0	26504.3	29572.3	32476.5	32366.6	32338.8	30101.7	26737.0	15538.4
52.5°	19014.5	19096.5	20394.5	24093.5	28764.3	34269.4	35277.3	35133.1	31596.4	27443.4	15574.5
55°	14689.5	14817.3	16061.2	19281.7	25496.4	33584.3	37417.7	37288.3	32958.3	27813.8	15531.9
57°	10443.1	10577.5	11813.2	14715.7	21448.3	31212.9	37630.8	37768.5	33694.2	27876.1	15579.4
57.5°	9318.8	9456.5	10680.7	13499.6	20186.3	30355.7	37447.2	37676.7	33826.9	27866.2	15605.6
60°	4692.2	4744.6	5524.7	7535.7	12760.5	24540.9	35052.8	35644.4	33946.5	27384.4	15718.7
62.5°	2917.2	2879.5	2855.0	3471.2	6208.2	16274.3	30111.5	31250.6	31657.0	26217.5	15445.0
65°	2564.9	2494.4	2224.0	2174.8	2741.9	7904.4	22675.8	24093.5	26764.9	24378.6	14792.7
67.5°	2409.2	2340.3	2035.5	1852.0	1853.6	3133.6	14078.2	15674.4	20850.1	21269.7	13253.8
70°	2248.6	2186.3	1901.1	1684.8	1578.3	1735.6	6476.9	7688.1	13591.4	16718.4	11077.3
72.5°	2042.1	1999.5	1729.0	1506.1	1393.1	1299.6	2479.7	2928.7	7868.4	11228.1	7693.0
75°	1825.7	1786.4	1555.3	1342.3	1204.6	1022.7	1396.3	1504.5	3997.3	5744.3	3787.5
77.5°	1588.1	1565.1	1383.2	1186.6	1076.8	847.3	988.3	1040.7	1714.3	2463.3	1899.5
80°	1263.6	1307.8	1209.5	1057.1	955.5	678.5	699.8	734.2	998.1	1203.0	1078.4
82.5°	822.7	899.8	947.3	858.8	786.7	534.3	503.1	517.9	650.6	734.2	468.7
85°	342.5	385.1	622.8	562.1	522.8	390.1	337.6	344.2	403.2	417.9	191.8
87.5°	152.4	162.3	273.7	257.3	221.3	134.4	144.2	157.3	214.7	203.2	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321093
 CATALOG NUMBER: GLEON-SA9C-827-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5	10577.5
2.5°	10587.3	10449.6	10213.6	9953.0	9740.0	9569.5	9397.5	9279.5	9141.8	9068.0	9030.3
5°	10595.5	10325.1	9828.5	9318.8	8863.2	8446.9	8050.3	7745.4	7460.3	7306.2	7263.6
7.5°	10629.9	10223.5	9420.4	8581.3	7771.7	7032.5	6462.2	6104.9	5847.6	5732.9	5700.1
10°	10657.8	10103.8	8915.6	7673.3	6572.0	5823.0	5380.5	5180.6	5092.1	5077.3	5062.6
12.5°	10723.3	9980.9	8384.6	6726.0	5639.5	5121.6	4967.5	4954.4	4979.0	5015.0	5015.0
15°	10826.6	9859.6	7778.2	5913.2	5046.2	4864.3	4895.4	4967.5	5034.7	5090.4	5098.6
17.5°	10902.0	9710.5	7125.9	5262.5	4729.9	4779.0	4890.5	4992.1	5060.9	5115.0	5119.9
20°	10956.0	9479.4	6429.4	4765.9	4547.9	4700.4	4839.7	4929.8	4977.3	5031.4	5039.6
22.5°	10928.2	9169.6	5811.5	4410.3	4400.4	4585.6	4718.4	4826.6	4790.5	4738.1	4772.5
25°	10793.8	8743.5	5175.6	4144.8	4244.8	4431.6	4595.5	4523.4	4402.1	4379.1	4392.3
27.5°	10554.5	8199.4	4587.3	3898.9	4064.5	4289.0	4279.2	4207.1	4164.4	4134.9	4153.0
30°	10297.2	7609.4	4072.7	3684.2	3864.5	4049.7	4012.0	4010.4	3967.8	3920.2	3943.2
32.5°	10043.2	7016.1	3664.6	3507.2	3713.7	3738.3	3820.3	3844.9	3761.3	3661.3	3654.7
35°	9821.9	6455.6	3354.8	3346.6	3531.8	3535.1	3654.7	3620.3	3412.2	3308.9	3308.9
37.5°	9656.4	5896.8	3118.8	3202.4	3292.6	3377.8	3438.4	3295.8	3261.4	3204.1	3202.4
40°	9584.3	5405.1	2971.3	3092.6	3123.7	3231.9	3076.2	3131.9	3148.3	3118.8	3118.8
42.5°	9508.9	4977.3	2843.5	3009.0	3004.1	2989.4	2910.7	2982.8	3048.4	3050.0	3045.1
45°	9433.5	4608.6	2730.4	2830.4	2899.2	2740.2	2755.0	2832.0	2923.8	2956.6	2956.6
47.5°	9349.9	4316.9	2627.2	2641.9	2748.4	2641.9	2630.4	2689.4	2797.6	2850.0	2861.5
50°	9166.4	4054.6	2509.2	2476.4	2505.9	2541.9	2551.8	2579.6	2699.3	2782.9	2802.5
52.5°	8912.3	3820.3	2358.4	2324.0	2324.0	2460.0	2505.9	2514.1	2615.7	2715.7	2735.3
55°	8700.9	3671.1	2202.7	2196.1	2189.6	2373.1	2451.8	2464.9	2535.4	2614.0	2623.9
57°	8715.7	3659.7	2083.0	2089.6	2088.0	2284.6	2401.0	2428.9	2464.9	2532.1	2543.6
57.5°	8723.9	3667.9	2056.8	2060.1	2058.5	2260.0	2386.2	2417.4	2445.2	2515.7	2527.2
60°	8846.8	3689.2	1950.3	1914.2	1922.4	2128.9	2302.7	2342.0	2360.0	2453.4	2468.2
62.5°	8664.9	3594.1	1865.1	1778.2	1778.2	1991.3	2186.3	2248.6	2276.4	2402.6	2427.2
65°	8137.1	3327.0	1765.1	1624.2	1640.5	1853.6	2047.0	2148.6	2191.2	2348.5	2374.8
67.5°	7322.6	3017.2	1658.6	1486.5	1502.9	1709.4	1902.8	2012.6	2079.8	2289.5	2310.8
70°	6262.2	2638.6	1514.3	1340.6	1360.3	1552.0	1732.3	1856.9	1956.8	2233.8	2240.4
72.5°	4616.8	2163.3	1312.8	1180.0	1201.3	1368.5	1560.2	1704.5	1838.8	2094.5	2091.2
75°	2745.2	1691.3	1089.9	1017.8	1032.5	1188.2	1404.5	1579.9	1781.5	2040.4	2071.6
77.5°	1665.1	1273.4	888.3	852.2	870.3	1029.2	1293.1	1479.9	1756.9	1924.1	1914.2
80°	1006.3	909.6	709.6	686.7	704.7	880.1	1196.4	1404.5	1535.6	1643.8	1643.8
82.5°	526.1	555.6	521.2	503.1	527.7	714.6	1088.2	1225.9	1357.0	1165.3	1088.2
85°	214.7	290.1	316.3	314.7	329.4	494.9	939.1	1048.9	875.2	830.9	850.6
87.5°	72.1	122.9	154.1	132.8	139.3	311.4	650.6	506.4	601.5	419.6	398.3
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)