

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: P650038

Luminaire Tested: **GLAN-SA7A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14712.5 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

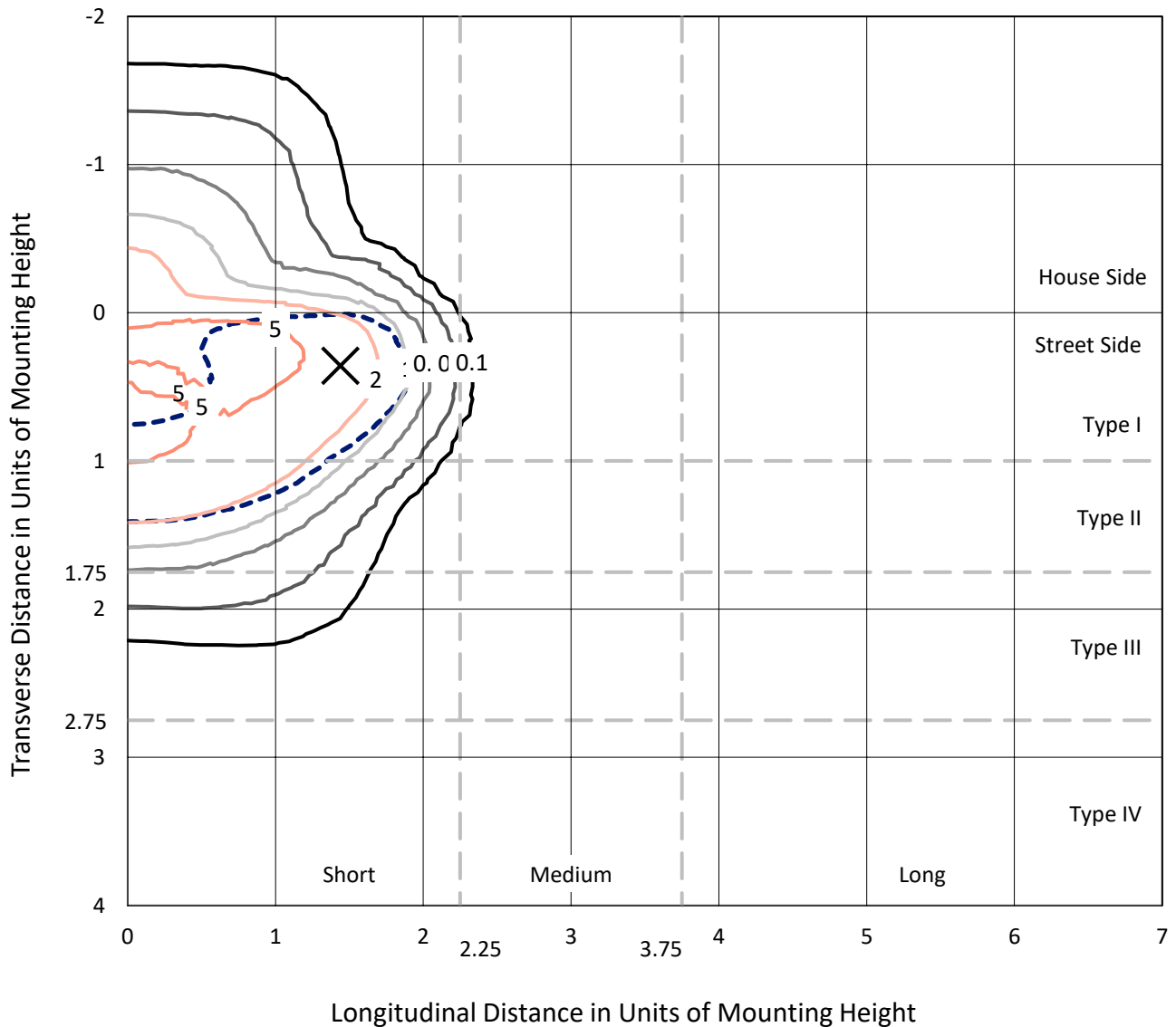
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

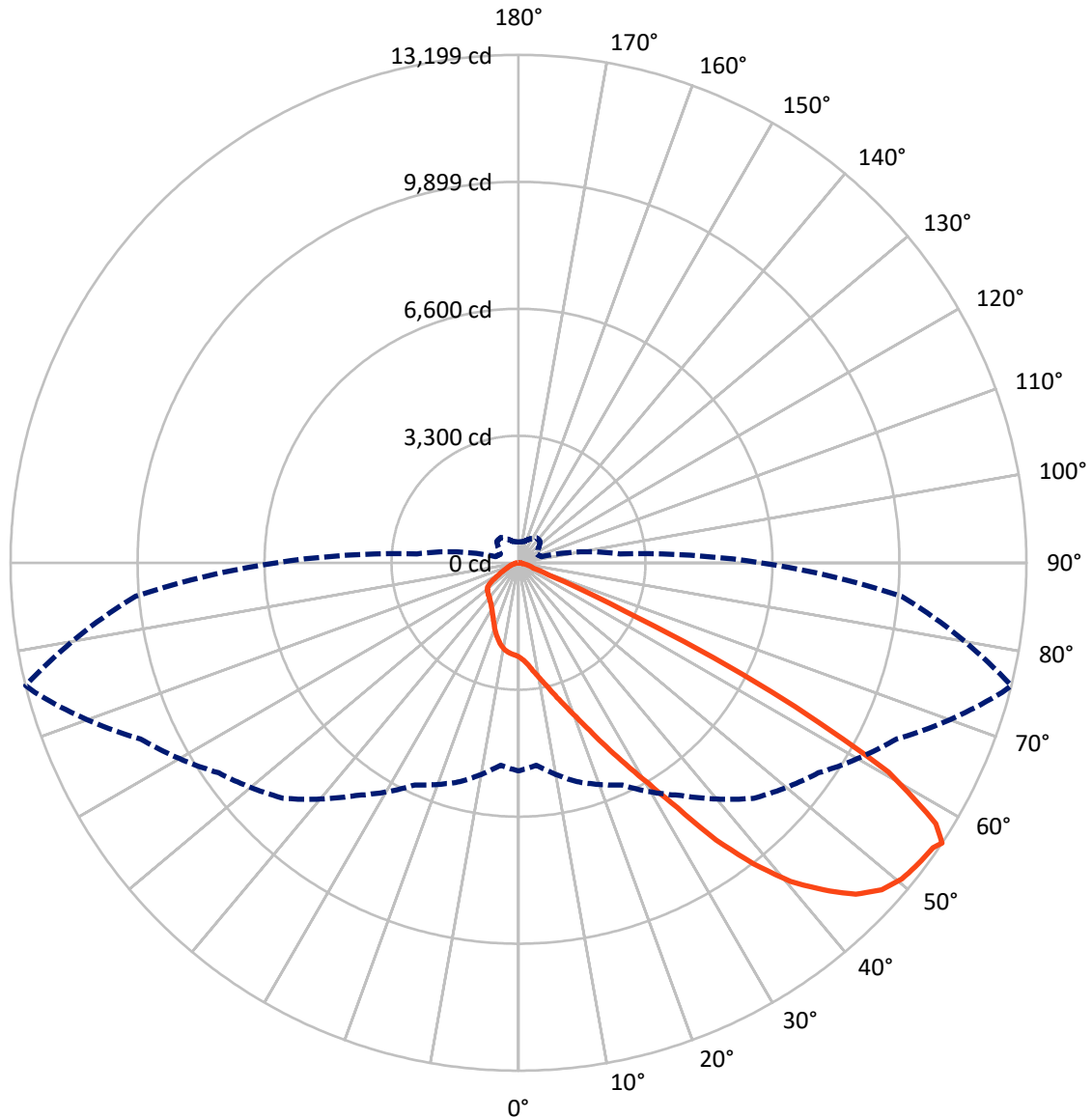
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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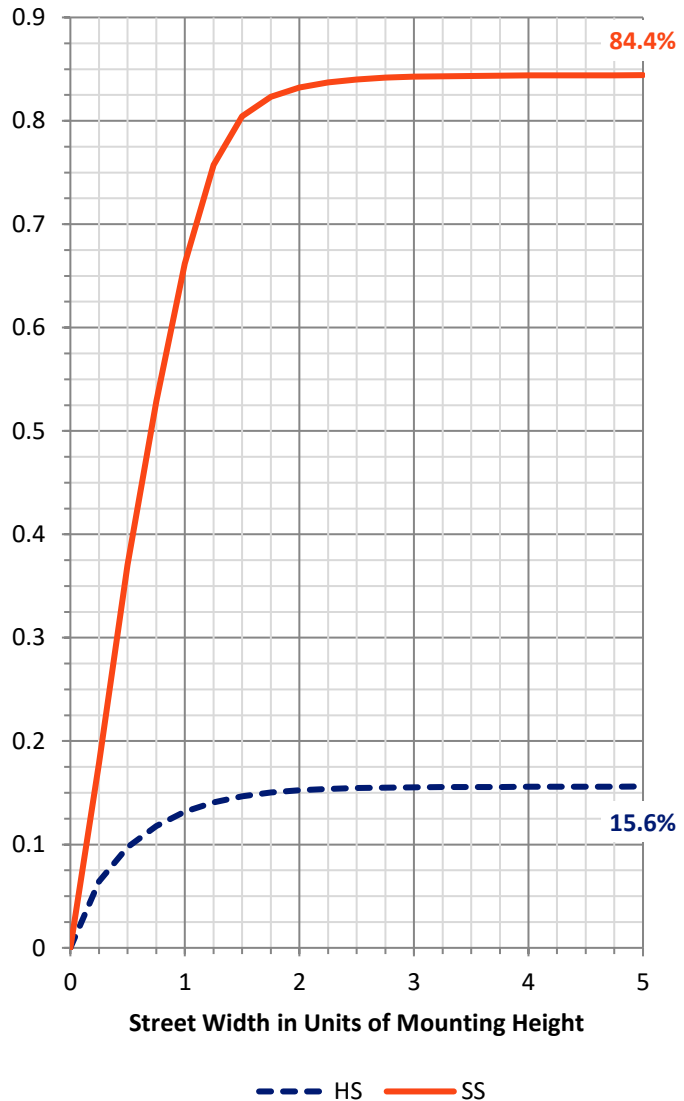
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2311.3	0.0	2311.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	12401.3	0.0	12401.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	14712.5	0.0	14712.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	1.7
10°-20°	792.5	5.4
20°-30°	1437.1	9.8
30°-40°	2478.3	16.8
40°-50°	4026.1	27.4
50°-60°	4243.7	28.8
60°-70°	1296.6	8.8
70°-80°	166.2	1.1
80°-90°	25.2	0.2
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°	14712.5	100.0
0°-180°	14712.5	100.0

**Coefficient of Utilization**



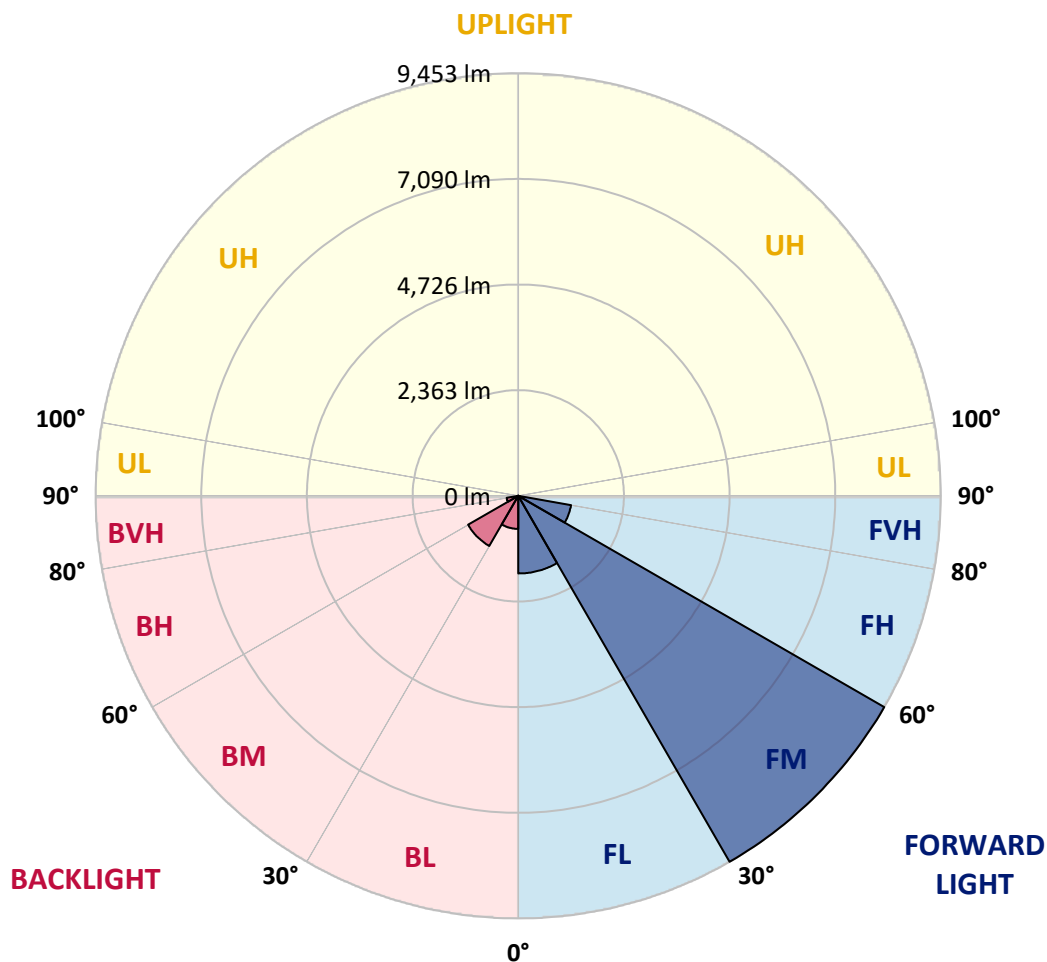
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.9	11.8			
FM (30°-60°)	9452.8	64.2			
FH (60°-80°)	1199.2	8.2			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	739.4	5.0	B2/1000		
BM (30°-60°)	1295.3	8.8	B2/2500		
BH (60°-80°)	263.7	1.8	B1/500		G1/500
BVH (80°-90°)	12.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2820.4	2755.4	2758.1	2752.6	2744.6	2714.7	2625.2	2611.6	2552.0	2535.7	2481.5
5°	3159.5	3102.5	3135.1	3086.3	3040.2	3013.1	2866.6	2798.8	2703.9	2668.6	2592.7
7.5°	3371.0	3343.9	3333.1	3335.7	3292.4	3224.6	3159.5	3010.3	2882.8	2855.8	2695.7
10°	3474.1	3457.8	3474.1	3465.9	3484.9	3493.0	3379.1	3289.6	3102.5	3056.4	2806.9
12.5°	3498.4	3531.0	3544.6	3579.8	3625.9	3704.6	3696.5	3574.4	3324.9	3295.1	2977.7
15°	3558.1	3585.3	3571.7	3628.7	3715.4	3848.3	3918.8	3899.8	3631.3	3577.1	3175.8
17.5°	3612.4	3563.6	3609.6	3723.6	3810.3	4013.7	4184.6	4263.3	3965.0	3902.6	3357.4
20°	3685.6	3672.0	3663.9	3720.8	3875.5	4146.6	4485.7	4629.4	4339.2	4274.1	3617.8
22.5°	3908.0	3910.7	3905.3	3821.2	3932.4	4238.8	4748.7	5104.0	4786.6	4732.5	3913.4
25°	4200.9	4165.6	4138.5	4070.7	4057.1	4322.9	5014.5	5684.3	5323.6	5285.6	4233.4
27.5°	4510.1	4510.1	4428.6	4366.3	4279.5	4531.8	5258.5	6248.4	5971.8	5920.3	4512.7
30°	4846.3	4865.3	4854.4	4721.6	4667.3	4759.5	5508.1	6969.8	6714.9	6649.8	4973.8
32.5°	5342.6	5301.9	5348.0	5236.9	5076.8	5158.2	5901.3	7615.3	7680.4	7588.1	5578.6
35°	5999.0	5974.5	5944.7	5763.0	5573.2	5638.2	6457.2	8409.9	8892.6	8846.5	6188.8
37.5°	6587.5	6573.8	6549.5	6424.7	6205.0	6283.7	7089.1	9237.1	10075.0	9923.2	7051.1
40°	7205.8	7279.0	7200.3	7089.1	6888.4	7062.0	7832.3	9727.9	11070.4	10886.0	7710.2
42.5°	8043.8	7986.8	8022.1	7818.6	7710.2	7900.0	8578.0	10218.8	11843.3	11623.6	8409.9
45°	8936.0	8938.7	8843.8	8778.7	8496.6	8702.8	9036.4	10490.0	12458.9	12288.0	8938.7
47.5°	9508.3	9505.5	9608.6	9711.6	9421.4	9218.0	9348.2	10747.6	12776.2	12697.5	9131.3
50°	9418.8	9445.9	9578.8	9963.8	10115.7	9841.8	9641.2	10671.7	12920.0	12911.8	9296.7
52.5°	8192.9	8282.4	8504.8	9060.8	9825.6	10164.5	9947.6	10812.7	12990.4	13004.0	9543.5
55°	6237.6	6286.4	6709.4	7384.8	8230.9	9391.6	9825.6	10923.9	13044.7	13069.1	9841.8
56°	5410.5	5280.2	5890.4	6370.5	7382.0	8651.3	9516.3	10837.1	13012.1	13199.3	9991.0
57.5°	4084.3	3997.4	4491.1	5090.4	6064.0	7403.7	8556.3	10427.6	12792.5	12789.8	9776.7
60°	2484.2	2397.4	2777.1	3129.7	3674.8	4558.9	5782.0	8304.1	10815.4	11043.2	7916.3
62.5°	1478.1	1532.3	1906.5	2120.8	2297.1	2389.2	2991.3	4935.8	7216.6	7379.3	4911.4
65°	984.5	1003.4	1285.5	1638.0	1716.7	1366.9	1217.7	1998.8	3129.7	3029.3	2025.9
67.5°	607.5	650.9	862.4	1231.3	1364.1	998.0	577.6	745.8	862.4	862.4	585.8
70°	368.8	390.6	575.0	838.0	935.6	642.8	420.4	420.4	414.9	406.8	349.8
72.5°	176.3	189.9	292.9	431.2	439.3	339.0	325.4	355.2	347.1	344.4	290.2
75°	76.0	81.4	103.0	135.6	154.6	143.8	197.9	254.9	263.1	254.9	208.8
77.5°	24.4	27.1	38.0	48.8	51.5	62.4	84.1	105.8	122.1	113.9	103.0
80°	2.7	5.4	10.9	24.4	38.0	48.8	62.4	70.5	78.6	78.6	73.2
82.5°	2.7	2.7	10.9	21.7	35.2	46.1	59.7	67.8	78.6	81.4	76.0
85°	0.0	2.7	8.1	18.9	29.8	29.8	27.1	27.1	18.9	18.9	18.9
87.5°	0.0	0.0	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2470.6	2465.2	2392.0	2345.9	2321.4	2272.7	2242.8	2221.1	2204.8	2185.9	2188.6
5°	2503.2	2484.2	2362.2	2278.1	2177.8	2123.5	2077.4	2039.4	2015.0	2009.6	1998.8
7.5°	2595.4	2495.0	2310.6	2158.7	2031.3	1977.1	1936.4	1911.9	1922.8	1898.4	1917.4
10°	2665.9	2516.7	2248.2	2028.6	1901.1	1860.4	1838.7	1857.7	1884.8	1874.0	1860.4
12.5°	2752.6	2538.4	2147.9	1903.8	1784.5	1754.6	1792.6	1827.9	1882.1	1903.8	1876.7
15°	2850.3	2562.8	2020.5	1760.1	1684.2	1708.6	1773.7	1836.1	1890.2	1917.4	1933.6
17.5°	2969.6	2554.7	1895.7	1646.2	1589.3	1659.7	1738.4	1795.3	1876.7	1917.4	1906.5
20°	3080.8	2527.6	1757.4	1532.3	1535.0	1600.1	1665.1	1757.4	1800.7	1855.0	1836.1
22.5°	3186.6	2478.7	1613.6	1453.6	1453.6	1553.9	1586.5	1646.2	1684.2	1711.2	1708.6
25°	3335.7	2386.6	1494.3	1377.7	1410.3	1475.3	1502.4	1521.4	1505.2	1526.9	1529.6
27.5°	3441.5	2291.6	1396.6	1309.9	1369.5	1418.4	1410.3	1399.4	1361.4	1331.6	1350.6
30°	3555.4	2180.4	1312.6	1263.8	1296.3	1339.7	1307.2	1274.6	1215.0	1166.1	1168.9
32.5°	3718.2	2128.9	1239.4	1209.6	1253.0	1258.4	1223.1	1174.3	1114.6	1068.6	1065.8
35°	4021.9	2096.4	1177.0	1174.3	1182.4	1185.1	1149.9	1090.2	1065.8	1027.8	1041.4
37.5°	4325.6	2080.1	1133.6	1122.7	1120.1	1122.7	1082.1	1025.1	1071.2	1068.6	1074.0
40°	4713.4	2153.3	1071.2	1057.7	1060.4	1060.4	1008.9	992.6	1074.0	1082.1	1084.8
42.5°	5106.6	2245.6	1030.6	987.1	998.0	998.0	970.9	951.9	1008.9	954.6	946.5
45°	5448.4	2381.1	987.1	916.7	943.7	957.3	949.2	916.7	881.4	789.2	789.2
47.5°	5559.6	2500.4	935.6	848.9	870.5	930.2	905.8	838.0	775.6	699.7	694.3
50°	5754.8	2630.6	895.0	770.2	816.3	889.6	865.1	797.3	726.8	672.6	675.3
52.5°	5955.5	2779.8	819.0	678.0	734.9	857.0	857.0	781.0	672.6	634.6	629.2
55°	6256.6	2774.4	683.4	555.9	656.3	808.2	821.8	699.7	602.0	572.2	572.2
56°	6299.9	2649.6	615.6	520.7	621.1	794.6	797.3	678.0	575.0	542.4	542.4
57.5°	5974.5	2392.0	539.7	477.3	577.6	770.2	772.9	659.1	553.3	507.1	501.7
60°	4596.8	1619.1	450.2	425.8	523.4	694.3	707.8	599.4	485.5	450.2	447.5
62.5°	2595.4	897.6	396.0	385.1	450.2	591.2	631.9	523.4	412.2	393.2	398.6
65°	1185.1	493.6	333.6	311.9	363.4	455.6	509.9	431.2	339.0	317.3	317.3
67.5°	433.9	336.3	284.8	246.8	254.9	295.6	330.9	279.3	225.1	192.5	200.7
70°	309.1	282.0	249.5	214.2	197.9	192.5	189.9	157.3	111.2	86.8	92.2
72.5°	249.5	233.3	208.8	181.7	154.6	130.2	111.2	81.4	51.5	35.2	32.6
75°	179.0	170.9	151.9	130.2	108.4	92.2	76.0	51.5	27.1	13.5	13.5
77.5°	92.2	92.2	89.5	81.4	67.8	54.3	43.4	29.8	16.3	5.4	5.4
80°	70.5	76.0	78.6	70.5	62.4	48.8	35.2	21.7	10.9	2.7	2.7
82.5°	67.8	78.6	84.1	73.2	62.4	46.1	35.2	21.7	10.9	2.7	2.7
85°	16.3	16.3	24.4	27.1	35.2	38.0	29.8	18.9	8.1	2.7	2.7
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	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)