

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637071

Luminaire Tested: GWS-SA4C-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12536 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

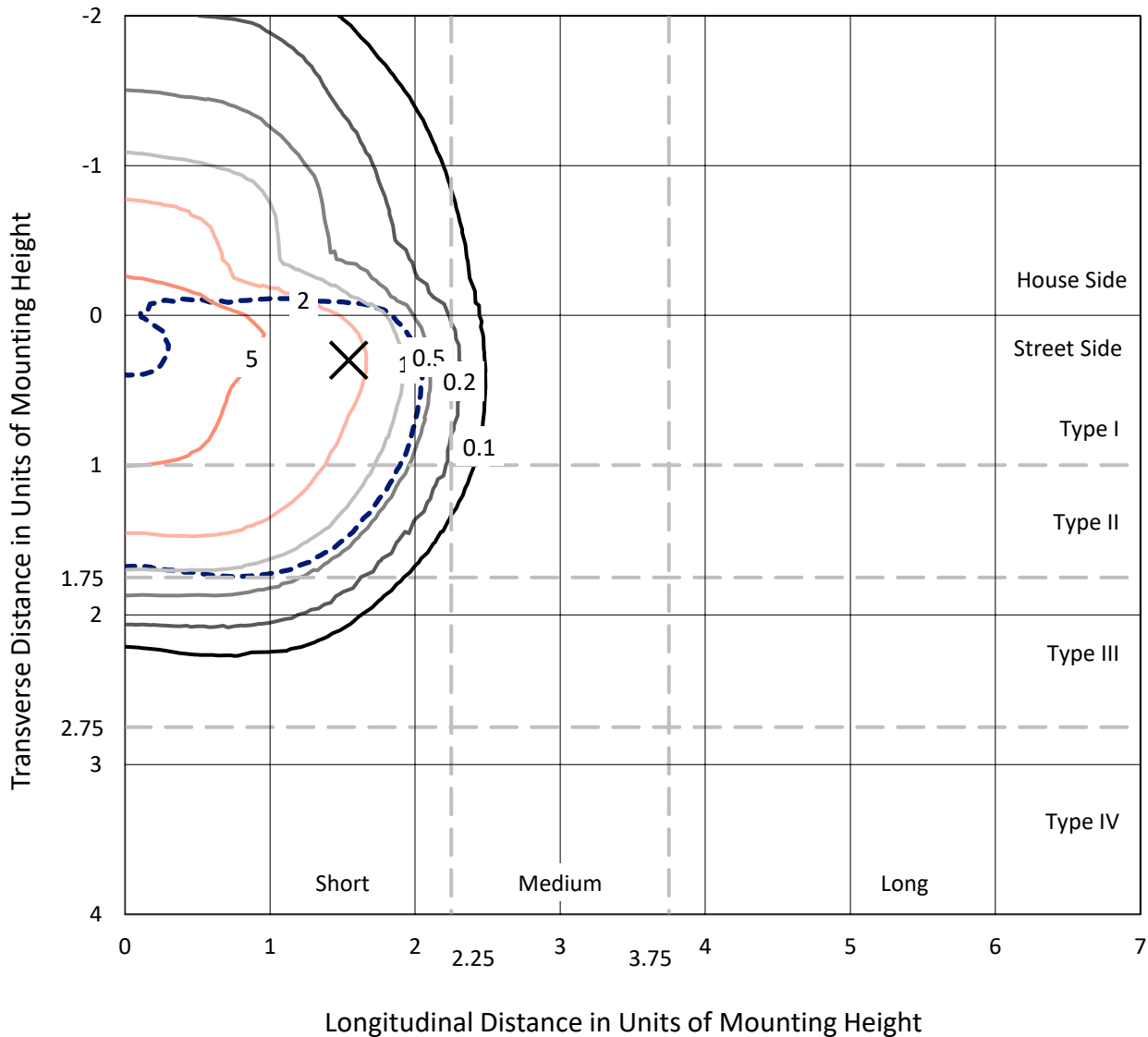


REPORT NUMBER: P637071

CATALOG NUMBER: GWS-SA4C-722-U-T3R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

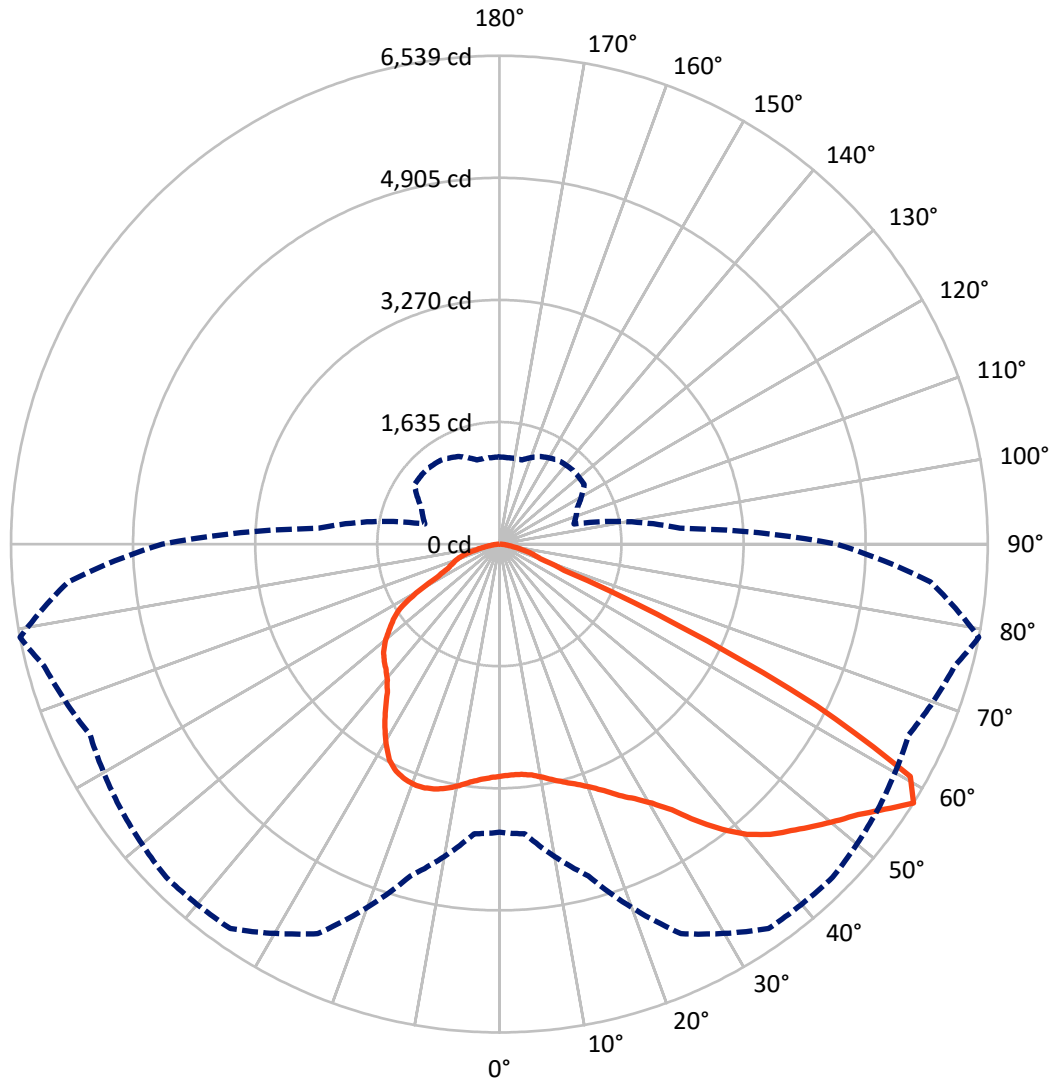
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P637071  
CATALOG NUMBER: GWS-SA4C-722-U-T3R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637071

CATALOG NUMBER: GWS-SA4C-722-U-T3R-W-GRSWH

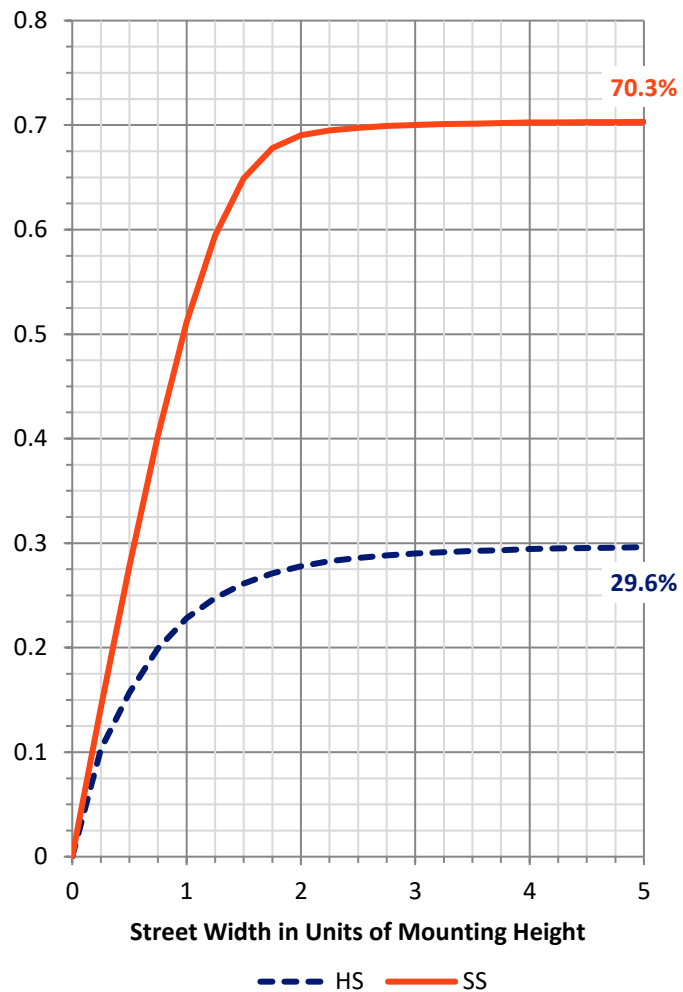
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3726.4	0.0	3726.4
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8809.6	0.0	8809.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	12536.0	0.0	12536.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.7	2.3
10°-20°	799.5	6.4
20°-30°	1355.3	10.8
30°-40°	2074.4	16.5
40°-50°	2766.0	22.1
50°-60°	3194.5	25.5
60°-70°	1660.0	13.2
70°-80°	352.9	2.8
80°-90°	45.7	0.4
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°	12536.0	100.0
0°-180°	12536.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637071

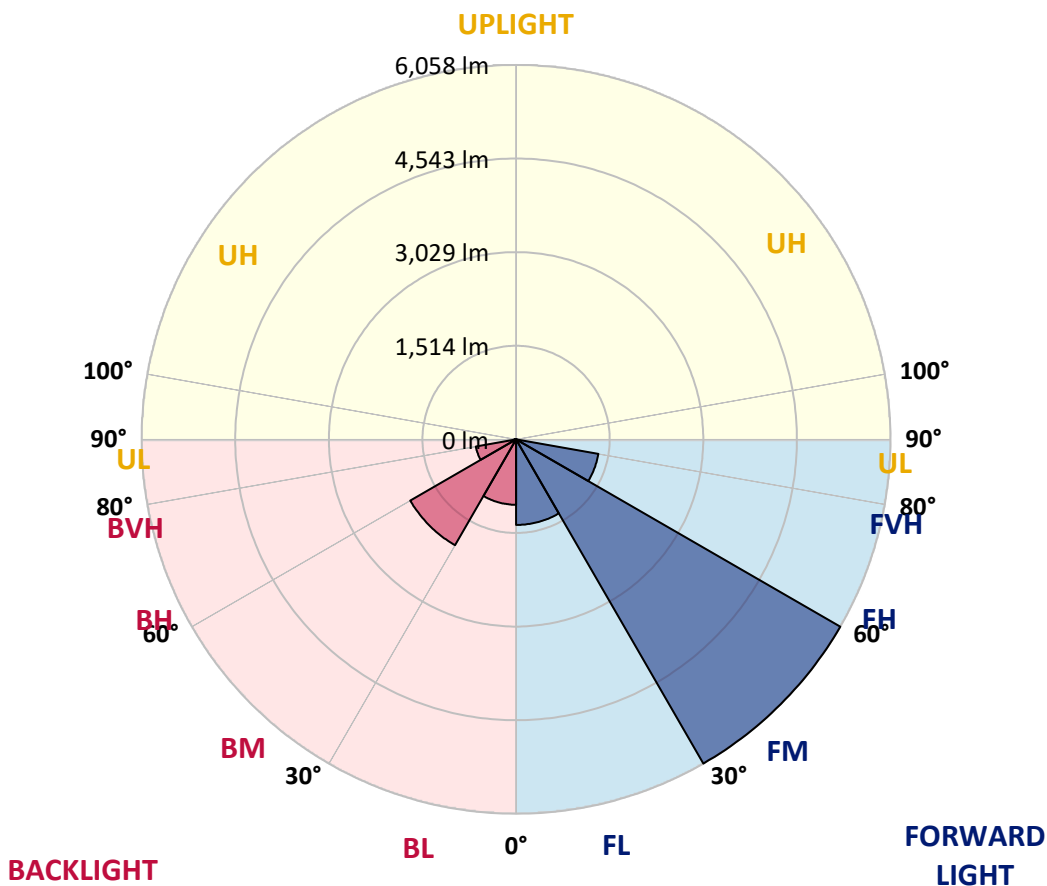
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.3	11.0			
FM (30°-60°)	6057.7	48.3			
FH (60°-80°)	1351.7	10.8			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1058.3	8.4	B3/2500		
BM (30°-60°)	1977.2	15.8	B2/2500		
BH (60°-80°)	661.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P637071

CATALOG NUMBER: GWS-SA4C-722-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7
2.5°	2965.3	2959.1	2961.2	2969.4	3000.1	3022.7	3046.2	3067.8	3088.3	3094.4	3099.5
5°	2859.7	2848.4	2851.5	2864.8	2900.7	2938.6	2980.6	3031.9	3081.1	3097.5	3119.0
7.5°	2784.9	2782.8	2787.9	2808.4	2846.4	2882.2	2936.6	3009.3	3094.4	3122.1	3160.0
10°	2685.4	2681.3	2701.8	2743.9	2806.4	2863.8	2928.4	3014.5	3133.4	3174.4	3232.8
12.5°	2606.5	2604.5	2626.0	2684.4	2764.4	2855.6	2944.8	3041.1	3185.6	3242.0	3313.8
15°	2652.6	2643.4	2644.4	2685.4	2757.2	2864.8	2985.8	3089.3	3237.9	3309.7	3401.9
17.5°	2786.9	2770.5	2758.2	2765.4	2806.4	2918.1	3048.3	3153.9	3298.4	3382.4	3495.2
20°	2972.4	2963.2	2929.4	2906.8	2916.1	3014.5	3146.7	3245.1	3377.3	3471.6	3592.6
22.5°	3221.5	3199.0	3152.8	3117.0	3089.3	3166.2	3288.1	3373.2	3487.0	3585.4	3711.4
25°	3530.0	3497.2	3424.5	3368.1	3308.6	3387.6	3496.2	3560.8	3637.6	3728.9	3848.8
27.5°	3844.7	3817.0	3736.0	3660.2	3586.4	3635.6	3764.7	3801.6	3793.4	3860.1	3962.6
30°	4179.9	4145.0	4068.1	3986.1	3890.8	3922.6	4038.4	4056.9	3969.7	4025.1	4094.8
32.5°	4533.5	4499.7	4433.0	4337.7	4230.1	4242.4	4274.2	4291.6	4208.6	4240.3	4293.6
35°	4893.2	4861.5	4793.8	4699.5	4620.6	4545.8	4465.8	4535.5	4487.4	4548.9	4544.8
37.5°	5222.3	5190.5	5148.5	5075.7	4940.4	4792.8	4608.3	4694.4	4769.2	4847.1	4833.8
40°	5444.7	5423.2	5433.4	5422.1	5247.9	4955.8	4678.0	4772.3	4976.3	5109.5	5102.3
42.5°	5636.4	5614.8	5674.3	5717.3	5512.3	5106.4	4711.8	4802.0	5108.5	5316.6	5306.3
45°	5721.4	5715.3	5813.7	5950.0	5754.2	5266.3	4799.0	4863.5	5208.9	5475.4	5436.5
47.5°	5620.0	5641.5	5835.2	6065.8	5955.1	5456.0	4977.3	4993.7	5340.1	5647.6	5538.0
50°	5418.0	5465.2	5726.6	6068.9	6101.7	5670.2	5224.3	5183.3	5516.4	5831.1	5591.3
52.5°	5123.9	5173.1	5599.5	6045.3	6185.7	5918.2	5553.3	5494.9	5738.9	6014.6	5600.5
55°	4448.4	4515.0	5308.4	5992.0	6267.7	6143.7	5924.4	5805.5	6025.9	6266.7	5691.7
57.5°	3859.0	3893.9	4599.1	5755.3	6284.1	6309.8	6188.8	6047.4	6310.8	6539.4	5794.2
60°	2832.0	2840.2	3474.7	4762.1	5780.9	6213.4	6167.3	5957.2	6175.5	6321.0	5324.8
62.5°	1600.0	1601.0	2107.4	3178.5	4318.2	5064.4	5093.1	4907.6	4724.1	4767.2	3706.3
65°	600.6	657.0	962.5	1562.1	2489.7	2989.9	3108.8	3151.8	2846.4	2656.7	1987.4
67.5°	401.8	415.1	561.7	803.6	1108.0	1279.2	1430.9	1435.0	1049.6	935.8	783.1
70°	306.5	319.8	441.8	575.0	561.7	518.6	560.7	545.3	563.7	579.1	595.5
72.5°	228.6	241.9	342.3	405.9	337.2	332.1	376.2	418.2	457.1	473.5	499.2
75°	151.7	161.9	230.6	217.3	186.5	220.4	274.7	316.7	339.3	358.7	378.2
77.5°	96.3	103.5	123.0	99.4	103.5	129.1	159.9	197.8	219.3	238.8	249.1
80°	44.1	43.0	42.0	47.1	58.4	75.8	96.3	118.9	135.3	143.5	149.6
82.5°	17.4	19.5	21.5	25.6	31.8	41.0	54.3	69.7	83.0	85.1	90.2
85°	7.2	8.2	9.2	11.3	14.3	18.4	22.5	31.8	40.0	43.0	46.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.1	5.1	9.2	10.2	11.3
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: P637071

CATALOG NUMBER: GWS-SA4C-722-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7	3106.7
2.5°	3127.2	3113.9	3136.4	3151.8	3166.2	3150.8	3145.7	3132.3	3130.3	3130.3	3137.5
5°	3155.9	3146.7	3170.3	3179.5	3178.5	3144.6	3124.1	3097.5	3084.2	3084.2	3086.2
7.5°	3207.2	3202.0	3215.4	3201.0	3168.2	3099.5	3031.9	2975.5	2937.6	2918.1	2924.3
10°	3292.2	3286.1	3274.8	3221.5	3127.2	2984.7	2846.4	2743.9	2682.4	2647.5	2649.6
12.5°	3375.3	3365.0	3325.0	3207.2	3013.4	2786.9	2605.5	2490.7	2423.0	2382.1	2372.8
15°	3466.5	3439.8	3353.7	3133.4	2827.9	2545.0	2355.4	2231.4	2158.6	2134.0	2133.0
17.5°	3553.6	3506.5	3350.7	3002.2	2605.5	2291.9	2101.2	2024.3	2012.0	2023.3	2026.4
20°	3641.7	3565.9	3316.8	2820.7	2341.1	2039.7	1941.3	1973.1	2019.2	2050.0	2057.1
22.5°	3733.0	3615.1	3240.0	2587.0	2062.3	1869.6	1910.6	1980.3	2037.7	2078.7	2082.8
25°	3835.5	3661.2	3125.2	2301.1	1838.8	1822.4	1903.4	1977.2	2038.7	2085.8	2094.0
27.5°	3893.9	3662.2	2964.2	2006.9	1736.3	1804.0	1886.0	1955.7	2017.2	2068.4	2077.6
30°	3951.3	3634.6	2709.0	1768.1	1706.6	1782.4	1856.2	1920.8	1979.2	2029.5	2040.7
32.5°	4032.3	3609.0	2414.8	1630.7	1689.2	1761.9	1822.4	1879.8	1924.9	1947.5	1953.6
35°	4132.7	3576.2	2102.2	1571.3	1677.9	1745.5	1798.8	1829.6	1771.2	1758.9	1772.2
37.5°	4273.1	3545.4	1790.6	1545.7	1670.7	1739.4	1786.5	1707.6	1635.9	1607.2	1617.4
40°	4424.8	3528.0	1579.5	1525.2	1673.8	1745.5	1735.3	1618.4	1514.9	1454.4	1452.4
42.5°	4554.0	3501.3	1444.2	1511.8	1682.0	1769.1	1665.6	1539.5	1385.8	1349.9	1350.9
45°	4641.1	3433.7	1372.4	1497.5	1689.2	1774.2	1632.8	1430.9	1321.2	1298.6	1297.6
47.5°	4677.0	3310.7	1326.3	1474.9	1688.1	1732.2	1566.2	1385.8	1276.1	1269.9	1274.0
50°	4653.4	3108.8	1279.2	1430.9	1663.5	1688.1	1489.3	1345.8	1245.3	1279.2	1303.8
52.5°	4566.3	2847.4	1222.8	1370.4	1619.5	1637.9	1450.3	1321.2	1222.8	1267.9	1287.4
55°	4543.7	2635.2	1151.1	1291.5	1553.9	1548.7	1409.3	1308.9	1207.4	1190.0	1193.1
57.5°	4514.0	2428.2	1032.2	1150.0	1387.8	1396.0	1370.4	1294.5	1167.5	1162.3	1167.5
60°	3921.6	1861.4	920.4	992.2	1139.8	1183.9	1326.3	1267.9	1102.9	1081.4	1080.3
62.5°	2561.4	1127.5	819.0	865.1	928.6	979.9	1209.5	1191.0	1032.2	1018.8	1028.1
65°	1377.6	803.6	745.2	772.8	807.7	846.6	1002.4	1060.9	932.7	885.6	886.6
67.5°	704.2	683.7	689.8	709.3	735.9	755.4	808.7	860.0	795.4	755.4	754.4
70°	602.7	619.1	628.3	639.6	657.0	653.9	659.1	668.3	663.2	643.7	642.7
72.5°	513.5	539.1	541.2	543.2	549.4	535.0	525.8	510.4	511.5	514.5	515.6
75°	390.5	415.1	421.3	418.2	424.3	405.9	393.6	378.2	359.8	356.7	358.7
77.5°	254.2	273.7	282.9	280.8	283.9	269.6	263.4	247.0	225.5	217.3	217.3
80°	153.7	165.0	172.2	174.2	177.3	167.1	156.8	142.5	133.2	124.0	124.0
82.5°	93.3	100.4	105.6	105.6	108.6	97.4	89.2	78.9	74.8	66.6	66.6
85°	47.1	52.3	54.3	53.3	51.2	42.0	38.9	33.8	31.8	27.7	27.7
87.5°	11.3	14.3	14.3	10.2	10.2	5.1	3.1	1.0	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)