

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: P633331

Luminaire Tested: GWS-SA2E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633331  
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-SA2E-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

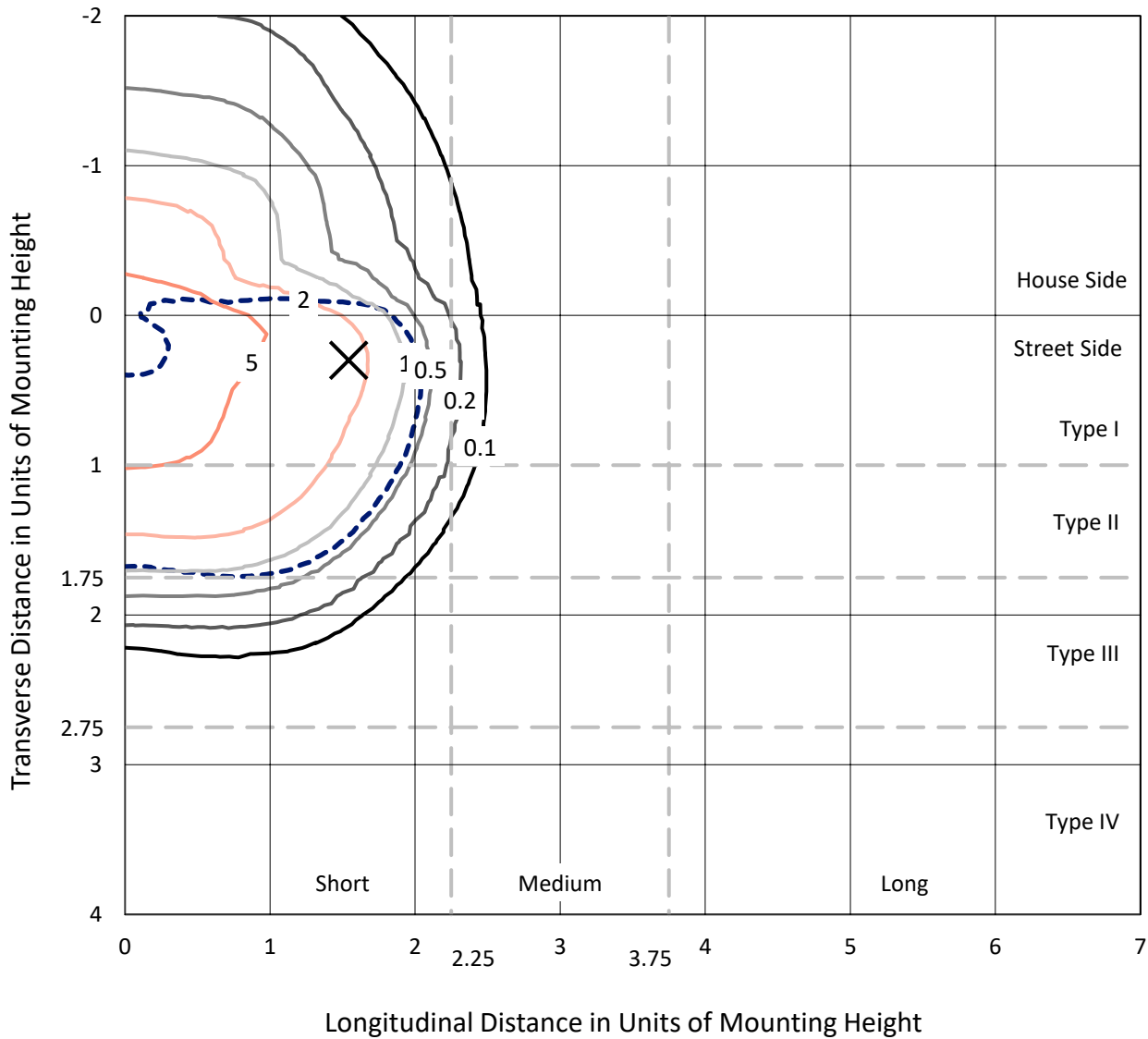
Lumens per Lamp: N/A  
Luminaire Lumens: 12792.5 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P633331  
 CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

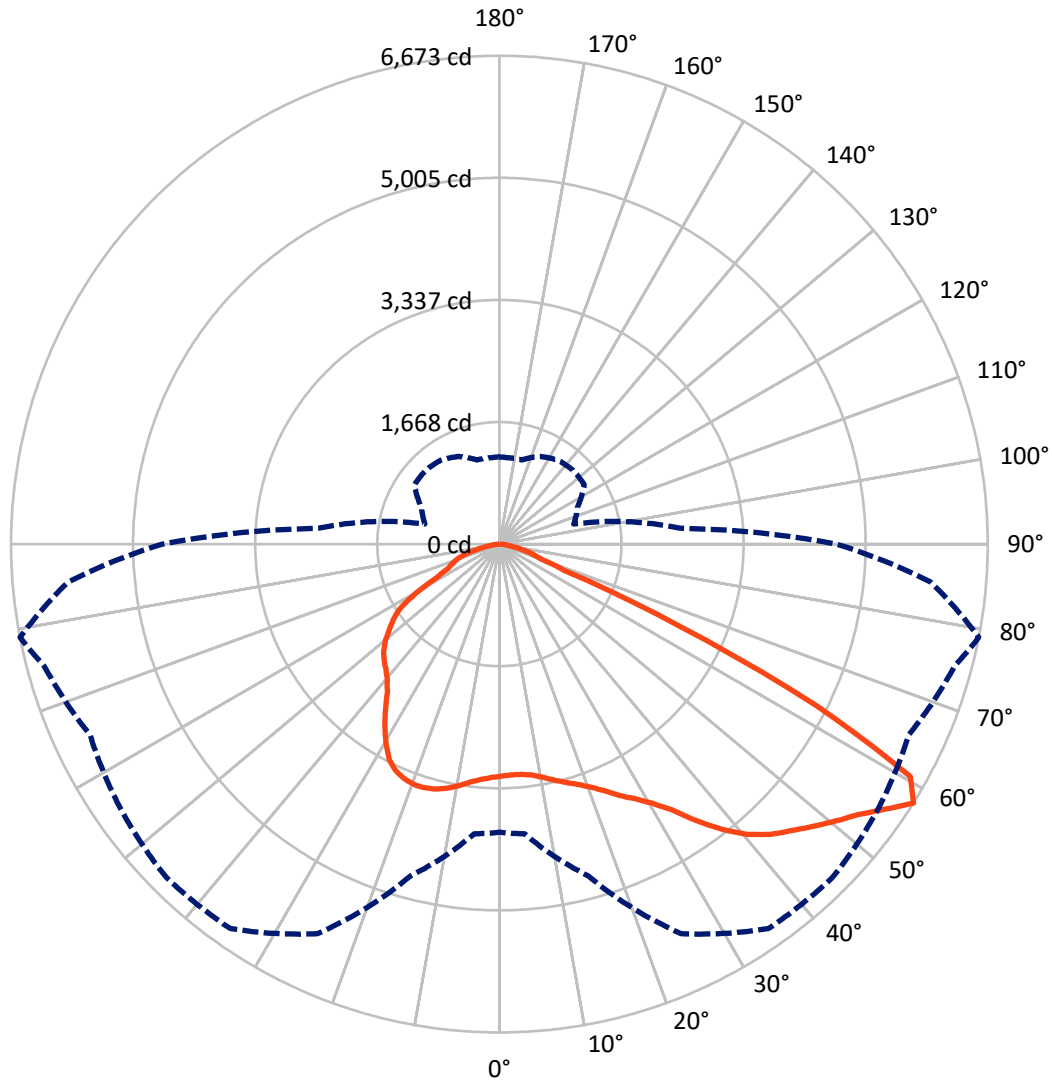
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

REPORT NUMBER: P633331  
CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P633331

CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

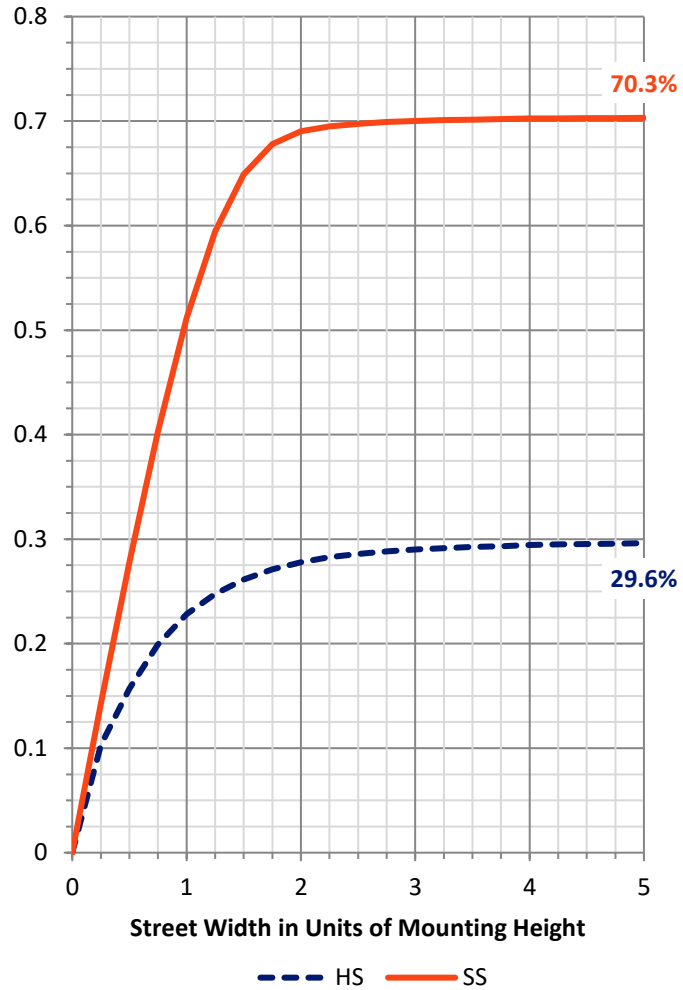
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3802.6	0.0	3802.6
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8989.9	0.0	8989.9
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	12792.5	0.0	12792.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.6	2.3
10°-20°	815.9	6.4
20°-30°	1383.0	10.8
30°-40°	2116.8	16.5
40°-50°	2822.6	22.1
50°-60°	3259.9	25.5
60°-70°	1694.0	13.2
70°-80°	360.1	2.8
80°-90°	46.6	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°	12792.5	100.0
0°-180°	12792.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633331

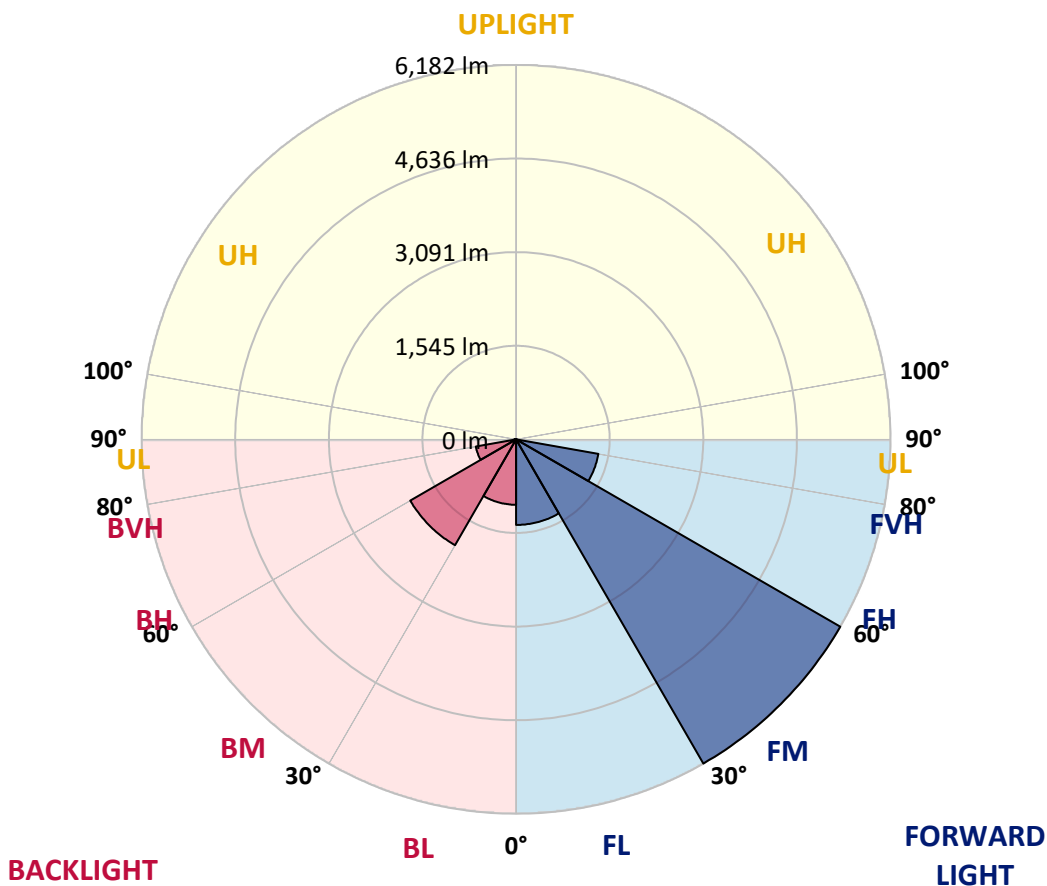
CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.6	11.0			
FM (30°-60°)	6181.7	48.3			
FH (60°-80°)	1379.3	10.8			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1079.9	8.4	B3/2500		
BM (30°-60°)	2017.6	15.8	B2/2500		
BH (60°-80°)	674.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.4	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: P633331

CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3
2.5°	3025.9	3019.7	3021.8	3030.1	3061.5	3084.5	3108.6	3130.5	3151.5	3157.7	3163.0
5°	2918.2	2906.7	2909.8	2923.4	2960.0	2998.7	3041.6	3093.9	3144.1	3160.9	3182.8
7.5°	2841.8	2839.8	2845.0	2865.9	2904.6	2941.2	2996.6	3070.9	3157.7	3186.0	3224.7
10°	2740.4	2736.2	2757.1	2800.0	2863.8	2922.4	2988.3	3076.1	3197.5	3239.3	3298.9
12.5°	2659.9	2657.8	2679.7	2739.3	2820.9	2914.0	3005.0	3103.3	3250.8	3308.3	3381.6
15°	2706.9	2697.5	2698.6	2740.4	2813.6	2923.4	3046.9	3152.5	3304.2	3377.4	3471.5
17.5°	2843.9	2827.2	2814.7	2822.0	2863.8	2977.8	3110.7	3218.4	3365.9	3451.6	3566.7
20°	3033.3	3023.8	2989.3	2966.3	2975.7	3076.1	3211.1	3311.5	3446.4	3542.6	3666.1
22.5°	3287.4	3264.4	3217.3	3180.7	3152.5	3230.9	3355.4	3442.2	3558.3	3658.7	3787.4
25°	3602.3	3568.8	3494.5	3437.0	3376.3	3456.9	3567.7	3633.6	3712.1	3805.2	3927.5
27.5°	3923.4	3895.1	3812.5	3735.1	3659.8	3710.0	3841.8	3879.4	3871.1	3939.1	4043.6
30°	4265.4	4229.8	4151.4	4067.7	3970.4	4002.9	4121.0	4139.9	4051.0	4107.4	4178.6
32.5°	4626.2	4591.7	4523.7	4426.5	4316.6	4329.2	4361.6	4379.4	4294.7	4327.1	4381.5
35°	4993.4	4960.9	4891.9	4795.7	4715.1	4638.8	4557.2	4628.3	4579.2	4641.9	4637.7
37.5°	5329.1	5296.7	5253.8	5179.5	5041.5	4890.9	4702.6	4790.5	4866.8	4946.3	4932.7
40°	5556.1	5534.1	5544.6	5533.1	5355.3	5057.2	4773.7	4869.9	5078.1	5214.1	5206.7
42.5°	5751.7	5729.7	5790.4	5834.3	5625.1	5210.9	4808.2	4900.3	5213.0	5425.3	5414.9
45°	5838.5	5832.2	5932.6	6071.7	5872.0	5374.1	4897.1	4963.0	5315.5	5587.5	5547.7
47.5°	5734.9	5756.9	5954.6	6189.9	6077.0	5567.6	5079.1	5095.9	5449.4	5763.2	5651.3
50°	5528.9	5577.0	5843.7	6193.1	6226.5	5786.2	5331.2	5289.4	5629.3	5950.4	5705.7
52.5°	5228.7	5278.9	5714.0	6169.0	6312.3	6039.3	5667.0	5607.3	5856.3	6137.6	5715.1
55°	4539.4	4607.4	5417.0	6114.6	6396.0	6269.4	6045.6	5924.3	6149.1	6394.9	5808.2
57.5°	3938.0	3973.6	4693.2	5873.0	6412.7	6438.9	6315.5	6171.1	6439.9	6673.2	5912.8
60°	2890.0	2898.3	3545.8	4859.5	5899.2	6340.6	6293.5	6079.1	6301.9	6450.4	5433.7
62.5°	1632.7	1633.8	2150.5	3243.5	4406.6	5168.0	5197.3	5008.0	4820.8	4864.7	3782.2
65°	612.9	670.5	982.1	1594.0	2540.6	3051.0	3172.4	3216.3	2904.6	2711.1	2028.1
67.5°	410.0	423.6	573.2	820.0	1130.7	1305.3	1460.1	1464.3	1071.1	955.0	799.1
70°	312.7	326.3	450.8	586.8	573.2	529.3	572.1	556.4	575.3	591.0	607.7
72.5°	233.2	246.8	349.3	414.2	344.1	338.9	383.9	426.7	466.5	483.2	509.4
75°	154.8	165.3	235.3	221.7	190.4	224.9	280.3	323.2	346.2	366.1	386.0
77.5°	98.3	105.6	125.5	101.5	105.6	131.8	163.2	201.9	223.8	243.7	254.2
80°	45.0	43.9	42.9	48.1	59.6	77.4	98.3	121.3	138.1	146.4	152.7
82.5°	17.8	19.9	22.0	26.1	32.4	41.8	55.4	71.1	84.7	86.8	92.0
85°	7.3	8.4	9.4	11.5	14.6	18.8	23.0	32.4	40.8	43.9	47.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	3.1	5.2	9.4	10.5	11.5
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: P633331

CATALOG NUMBER: GWS-SA2E-740-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3
2.5°	3191.2	3177.6	3200.6	3216.3	3230.9	3215.3	3210.0	3196.4	3194.3	3194.3	3201.7
5°	3220.5	3211.1	3235.1	3244.5	3243.5	3209.0	3188.1	3160.9	3147.3	3147.3	3149.4
7.5°	3272.8	3267.6	3281.1	3266.5	3233.0	3163.0	3093.9	3036.4	2997.7	2977.8	2984.1
10°	3359.6	3353.3	3341.8	3287.4	3191.2	3045.8	2904.6	2800.0	2737.3	2701.7	2703.8
12.5°	3444.3	3433.9	3393.1	3272.8	3075.1	2843.9	2658.8	2541.7	2472.6	2430.8	2421.4
15°	3537.4	3510.2	3422.4	3197.5	2885.8	2597.1	2403.6	2277.0	2202.8	2177.7	2176.6
17.5°	3626.3	3578.2	3419.2	3063.6	2658.8	2338.7	2144.2	2065.8	2053.2	2064.7	2067.8
20°	3716.3	3638.9	3384.7	2878.5	2389.0	2081.4	1981.0	2013.5	2060.5	2091.9	2099.2
22.5°	3809.4	3689.1	3306.3	2640.0	2104.5	1907.8	1949.7	2020.8	2079.4	2121.2	2125.4
25°	3913.9	3736.1	3189.1	2348.2	1876.4	1859.7	1942.3	2017.6	2080.4	2128.5	2136.9
27.5°	3973.6	3737.2	3024.9	2048.0	1771.8	1840.9	1924.5	1995.7	2058.4	2110.7	2120.1
30°	4032.1	3708.9	2764.4	1804.3	1741.5	1818.9	1894.2	1960.1	2019.7	2071.0	2082.5
32.5°	4114.8	3682.8	2464.3	1664.1	1723.7	1798.0	1859.7	1918.3	1964.3	1987.3	1993.6
35°	4217.3	3649.3	2145.2	1603.4	1712.2	1781.3	1835.6	1867.0	1807.4	1794.9	1808.4
37.5°	4360.6	3617.9	1827.3	1577.3	1704.9	1775.0	1823.1	1742.6	1669.3	1640.1	1650.5
40°	4515.4	3600.2	1611.8	1556.4	1708.0	1781.3	1770.8	1651.6	1545.9	1484.2	1482.1
42.5°	4647.2	3573.0	1473.7	1542.8	1716.4	1805.3	1699.7	1571.0	1414.1	1377.5	1378.6
45°	4736.1	3503.9	1400.5	1528.1	1723.7	1810.5	1666.2	1460.1	1348.2	1325.2	1324.2
47.5°	4772.7	3378.4	1353.5	1505.1	1722.7	1767.7	1598.2	1414.1	1302.2	1295.9	1300.1
50°	4748.6	3172.4	1305.3	1460.1	1697.6	1722.7	1519.8	1373.3	1270.8	1305.3	1330.4
52.5°	4659.7	2905.7	1247.8	1398.4	1652.6	1671.4	1480.0	1348.2	1247.8	1293.8	1313.7
55°	4636.7	2689.1	1174.6	1317.9	1585.7	1580.4	1438.2	1335.7	1232.1	1214.3	1217.5
57.5°	4606.4	2477.9	1053.3	1173.6	1416.2	1424.6	1398.4	1321.0	1191.3	1186.1	1191.3
60°	4001.8	1899.4	939.3	1012.5	1163.1	1208.1	1353.5	1293.8	1125.4	1103.5	1102.4
62.5°	2613.8	1150.5	835.7	882.8	947.6	999.9	1234.2	1215.4	1053.3	1039.7	1049.1
65°	1405.8	820.0	760.4	788.6	824.2	864.0	1022.9	1082.6	951.8	903.7	904.7
67.5°	718.6	697.6	703.9	723.8	751.0	770.9	825.3	877.6	811.7	770.9	769.8
70°	615.0	631.8	641.2	652.7	670.5	667.3	672.5	682.0	676.7	656.9	655.8
72.5°	524.0	550.2	552.3	554.4	560.6	546.0	536.6	520.9	521.9	525.1	526.1
75°	398.5	423.6	429.9	426.7	433.0	414.2	401.6	386.0	367.1	364.0	366.1
77.5°	259.4	279.3	288.7	286.6	289.7	275.1	268.8	252.1	230.1	221.7	221.7
80°	156.9	168.4	175.7	177.8	180.9	170.5	160.0	145.4	136.0	126.6	126.6
82.5°	95.2	102.5	107.7	107.7	110.9	99.4	91.0	80.5	76.4	68.0	68.0
85°	48.1	53.3	55.4	54.4	52.3	42.9	39.7	34.5	32.4	28.2	28.2
87.5°	11.5	14.6	14.6	10.5	10.5	5.2	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)