

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: P636745

Luminaire Tested: GWS-SA4B-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

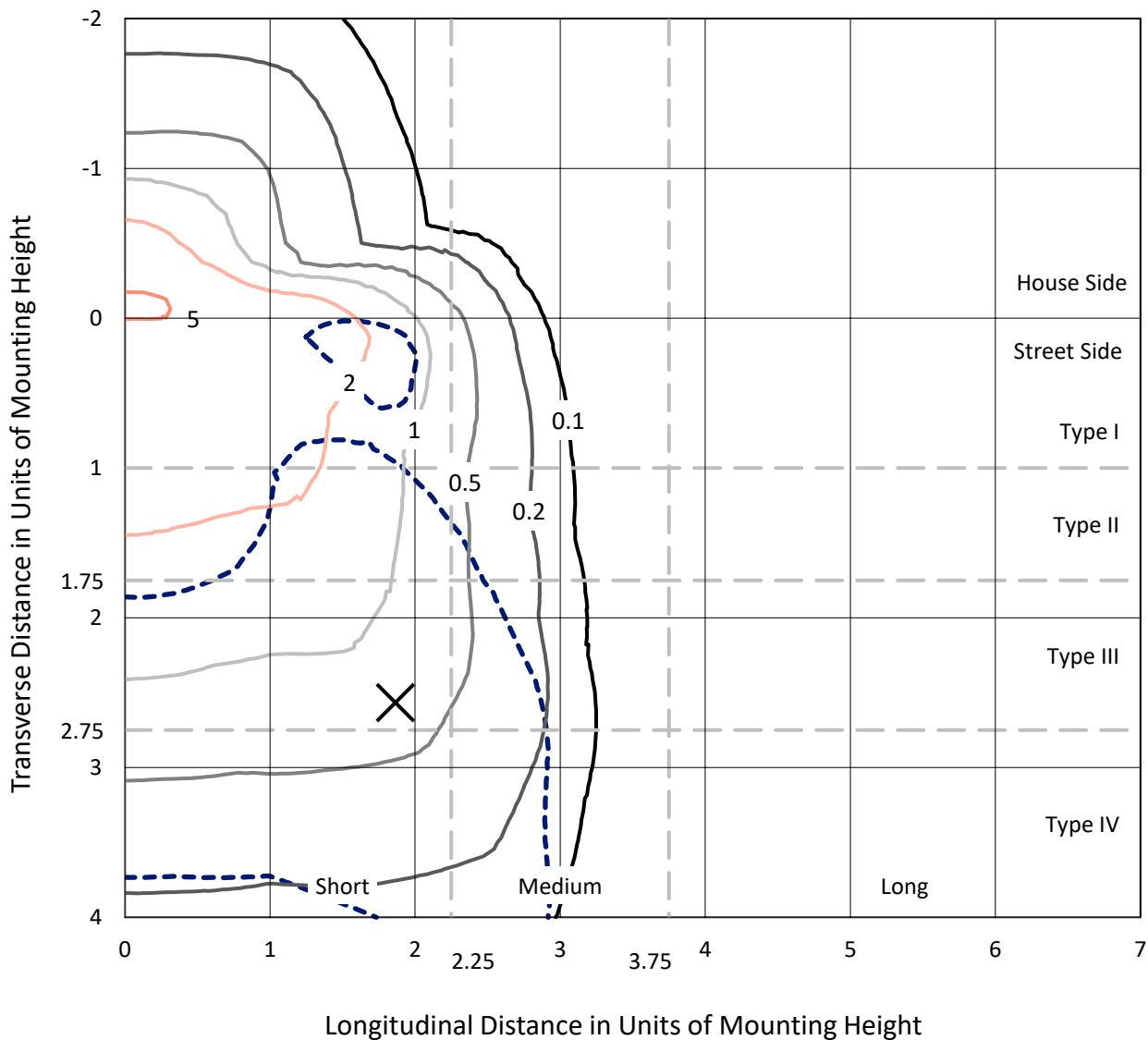
Lumens per Lamp: N/A  
Luminaire Lumens: 13789.3 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

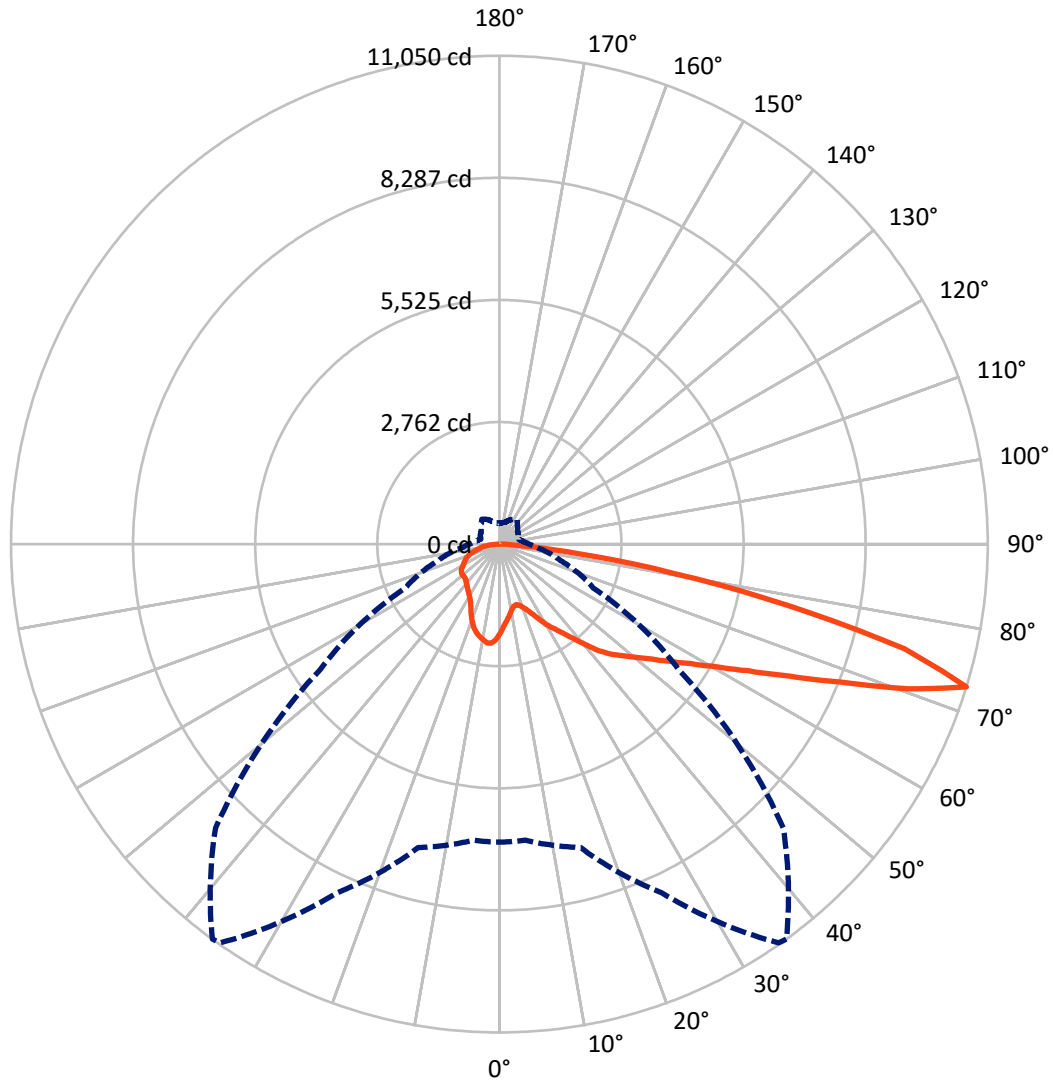
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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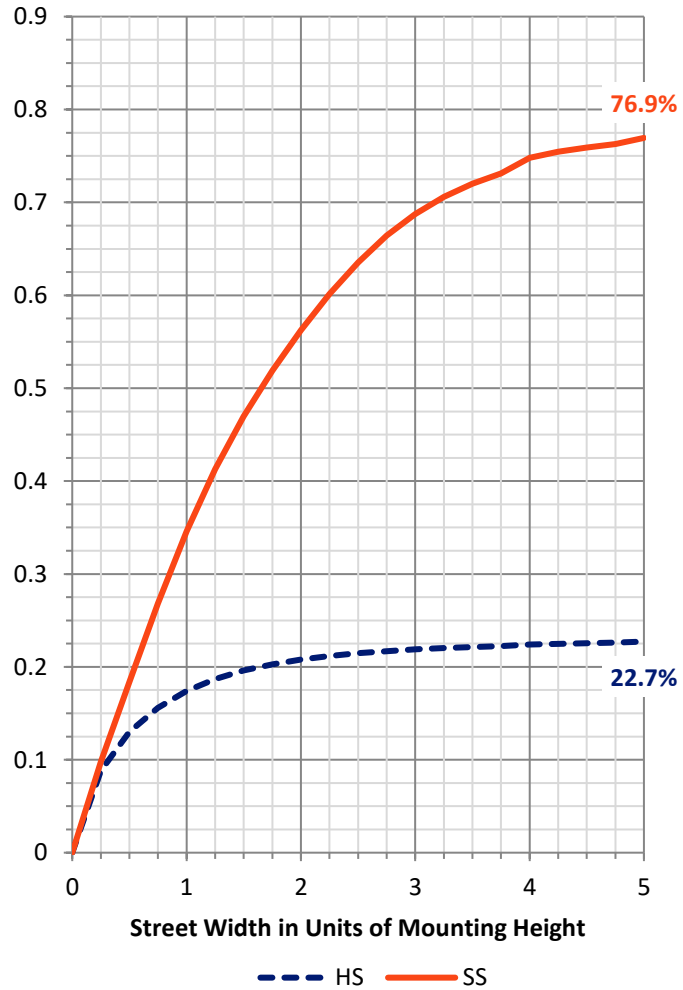
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3179.0	0.0	3179.0
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	10610.3	0.0	10610.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	13789.3	0.0	13789.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.6	1.4
10°-20°	532.2	3.9
20°-30°	881.4	6.4
30°-40°	1320.0	9.6
40°-50°	1925.8	14.0
50°-60°	2741.0	19.9
60°-70°	3463.1	25.1
70°-80°	2467.7	17.9
80°-90°	269.4	2.0
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°	13789.3	100.0
0°-180°	13789.3	100.0

**Coefficient of Utilization**



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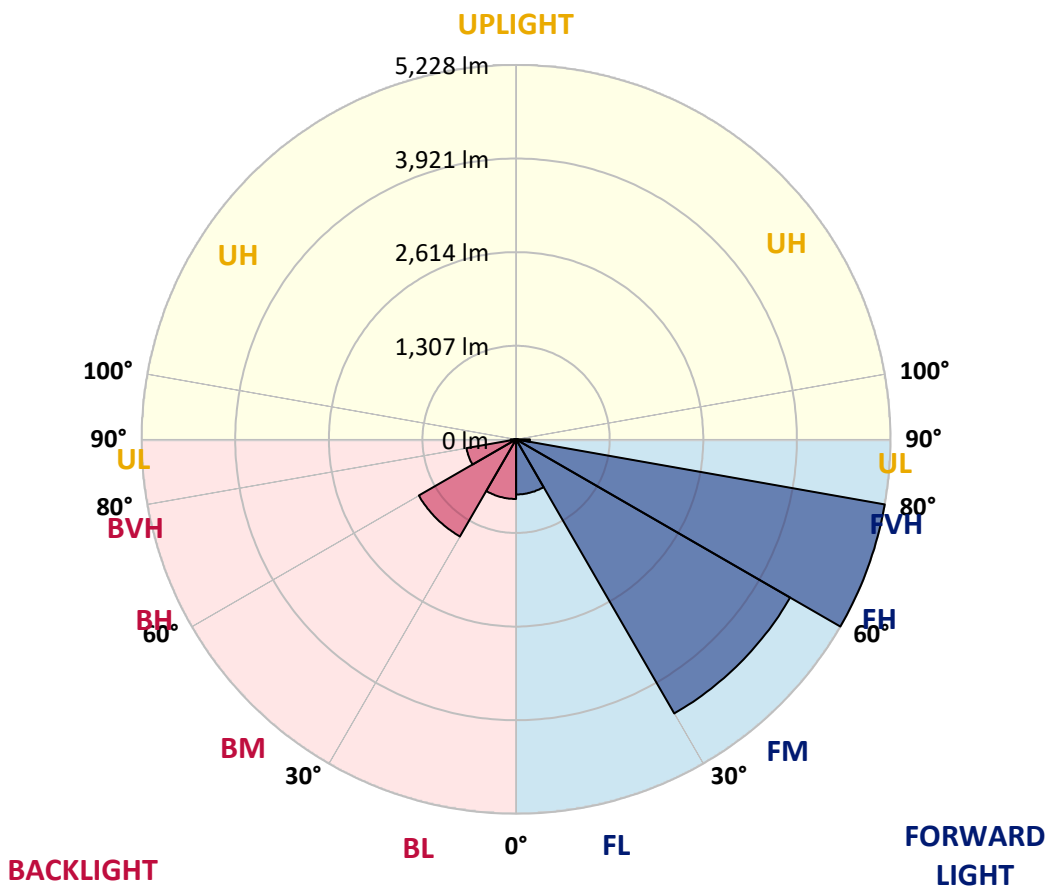
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.8	5.6			
FM (30°-60°)	4419.1	32.0			
FH (60°-80°)	5228.0	37.9			G3/7500
FVH (80°-90°)	193.4	1.4			G2/225
BL (0°-30°)	832.5	6.0	B2/1000		
BM (30°-60°)	1567.7	11.4	B2/2500		
BH (60°-80°)	702.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	76.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1
2.5°	1841.1	1838.0	1831.9	1850.3	1868.7	1866.7	1892.2	1916.8	1943.4	1971.0	2007.9
5°	1693.7	1691.7	1686.5	1714.2	1741.8	1740.8	1782.7	1822.7	1876.9	1936.3	2009.9
7.5°	1546.3	1541.2	1548.4	1583.2	1622.1	1626.2	1683.5	1749.0	1827.8	1916.8	2021.2
10°	1416.4	1415.3	1418.4	1457.3	1515.6	1519.7	1593.4	1684.5	1788.9	1907.6	2046.8
12.5°	1382.6	1380.6	1372.4	1391.8	1435.8	1442.0	1522.8	1634.4	1762.3	1912.7	2081.6
15°	1437.9	1432.7	1404.1	1394.9	1416.4	1421.5	1490.1	1604.7	1746.9	1921.9	2125.6
17.5°	1533.0	1530.0	1475.7	1437.9	1452.2	1456.3	1507.5	1599.6	1742.8	1940.3	2179.8
20°	1672.2	1658.9	1574.0	1516.7	1516.7	1522.8	1553.5	1622.1	1748.0	1962.9	2241.2
22.5°	1856.4	1829.8	1710.1	1632.3	1611.8	1620.0	1633.3	1678.4	1769.4	2000.7	2318.0
25°	2063.2	2038.6	1896.3	1786.8	1758.2	1761.3	1750.0	1758.2	1816.5	2052.9	2413.2
27.5°	2283.2	2266.8	2115.3	1976.2	1931.1	1931.1	1891.2	1871.8	1882.0	2112.3	2519.6
30°	2479.7	2457.2	2329.2	2176.8	2117.4	2117.4	2041.7	1999.7	1975.1	2184.9	2661.8
32.5°	2583.0	2569.7	2484.8	2368.1	2295.5	2284.2	2218.7	2169.6	2112.3	2292.4	2854.2
35°	2718.1	2715.1	2663.9	2572.8	2480.7	2464.3	2419.3	2380.4	2281.1	2426.5	3110.1
37.5°	2888.0	2882.9	2874.7	2820.5	2709.9	2706.9	2667.0	2619.9	2490.9	2619.9	3420.2
40°	3078.4	3069.1	3058.9	3057.9	2991.4	2980.1	2977.0	2923.8	2743.7	2853.2	3743.6
42.5°	3340.3	3308.6	3212.4	3255.4	3304.5	3294.3	3333.2	3253.4	3058.9	3130.6	4049.6
45°	3662.7	3584.9	3394.6	3406.9	3530.7	3551.2	3686.3	3666.8	3405.8	3450.9	4371.9
47.5°	3856.1	3788.6	3611.5	3601.3	3755.8	3781.4	4075.1	4112.0	3779.4	3836.7	4770.0
50°	4014.8	3967.7	3822.4	3836.7	4000.4	4026.0	4461.0	4539.8	4131.4	4231.7	5232.6
52.5°	4206.1	4138.6	4026.0	4093.6	4294.1	4324.8	4889.8	4974.7	4448.7	4665.6	5711.5
55°	4313.6	4286.0	4288.0	4391.4	4643.1	4685.1	5339.0	5324.7	4739.3	5037.1	6071.8
57.5°	4561.3	4551.0	4645.2	4684.1	5050.4	5104.7	5788.3	5665.5	5003.4	5324.7	6244.7
60°	4998.2	4972.7	5054.5	5113.9	5553.9	5630.7	6289.8	5999.1	5182.4	5538.6	6186.4
62.5°	5612.3	5580.5	5583.6	5677.8	6228.4	6309.2	6847.5	6277.5	5237.7	5571.3	5817.0
65°	6375.7	6329.7	6277.5	6405.4	7123.8	7191.4	7454.4	6480.1	5105.7	5256.1	5045.3
67.5°	7181.1	7143.3	7081.9	7350.0	8283.3	8324.3	8134.9	6462.7	4687.1	4412.9	3538.9
70°	7228.2	7237.4	7528.1	8498.2	9796.9	9807.1	8778.6	6112.7	3795.8	2860.4	1763.3
72.5°	6743.1	6727.8	7106.4	8708.0	11014.8	11049.5	9082.6	4952.2	2345.6	1426.6	826.9
75°	5477.2	5503.8	5901.9	7619.1	9440.8	9471.5	7404.2	2919.7	1114.5	698.0	529.1
77.5°	2357.9	2506.3	3291.2	5367.7	6761.5	6666.4	3816.2	1183.0	594.6	497.4	405.3
80°	680.6	738.9	1172.8	2552.3	4051.6	3980.0	1510.5	443.1	414.5	373.5	290.6
82.5°	220.0	243.6	429.8	1016.2	1815.5	1813.4	573.1	262.0	271.2	253.8	187.3
85°	61.4	70.6	132.0	308.0	561.8	550.6	165.8	123.8	144.3	146.3	93.1
87.5°	0.0	0.0	1.0	2.0	2.0	2.0	4.1	18.4	42.0	53.2	37.9
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°	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1
2.5°	2030.4	2027.3	2069.3	2102.0	2132.7	2153.2	2159.4	2163.4	2171.6	2175.7	2171.6
5°	2044.7	2060.1	2129.7	2180.8	2221.8	2246.3	2247.4	2245.3	2251.5	2246.3	2243.3
7.5°	2075.4	2105.1	2193.1	2247.4	2274.0	2275.0	2250.4	2221.8	2207.5	2195.2	2191.1
10°	2116.4	2160.4	2256.6	2292.4	2284.2	2246.3	2192.1	2147.1	2121.5	2103.1	2099.0
12.5°	2172.7	2221.8	2312.9	2311.8	2260.7	2193.1	2129.7	2075.4	2038.6	2017.1	2009.9
15°	2225.9	2288.3	2353.8	2305.7	2224.9	2143.0	2061.1	1988.4	1939.3	1905.6	1899.4
17.5°	2291.4	2357.9	2383.5	2286.3	2179.8	2074.4	1964.9	1869.7	1803.2	1763.3	1760.2
20°	2367.1	2426.5	2397.8	2252.5	2121.5	1983.3	1834.9	1728.5	1656.9	1618.0	1621.1
22.5°	2455.1	2498.1	2401.9	2206.4	2040.6	1854.4	1688.6	1586.3	1538.2	1517.7	1518.7
25°	2549.3	2576.9	2394.7	2144.0	1916.8	1696.8	1538.2	1491.1	1487.0	1481.9	1483.9
27.5°	2660.8	2654.7	2373.2	2056.0	1750.0	1513.6	1432.7	1445.0	1461.4	1459.4	1461.4
30°	2810.2	2751.9	2345.6	1934.2	1551.5	1360.1	1370.3	1405.1	1426.6	1428.7	1434.8
32.5°	2981.1	2859.4	2301.6	1768.4	1362.1	1274.1	1312.0	1353.9	1379.5	1384.6	1392.8
35°	3184.8	2982.2	2223.8	1561.7	1226.0	1223.0	1257.7	1286.4	1314.0	1316.1	1316.1
37.5°	3419.1	3105.0	2100.0	1333.5	1142.1	1178.9	1211.7	1217.8	1225.0	1218.9	1221.9
40°	3634.1	3223.7	1924.0	1125.7	1073.5	1140.1	1167.7	1147.2	1124.7	1109.4	1112.4
42.5°	3814.2	3304.5	1690.6	980.4	1003.9	1105.3	1126.8	1084.8	1040.8	1012.1	1016.2
45°	4016.8	3379.2	1416.4	882.2	944.6	1080.7	1095.0	1040.8	984.5	941.5	935.4
47.5°	4296.2	3531.7	1172.8	813.6	902.6	1067.4	1090.9	1017.3	943.6	879.1	871.9
50°	4641.1	3747.7	969.2	768.6	883.2	1060.2	1089.9	991.7	903.7	827.9	822.8
52.5°	5017.7	3958.5	818.7	733.8	863.7	1038.7	1084.8	963.0	861.7	779.8	773.7
55°	5268.4	4041.4	717.4	701.0	832.0	1005.0	1064.3	935.4	798.2	723.5	714.3
57.5°	5342.1	3934.9	646.8	671.3	791.1	957.9	1025.4	877.0	759.4	700.0	692.8
60°	5215.2	3666.8	602.8	646.8	746.1	897.5	957.9	843.3	728.7	675.4	670.3
62.5°	4857.0	3253.4	569.0	621.2	700.0	834.1	914.9	802.3	694.9	652.9	645.8
65°	4136.5	2668.0	541.4	594.6	656.0	773.7	867.8	761.4	658.0	626.3	618.1
67.5°	2893.1	1873.8	511.7	562.9	612.0	715.3	818.7	723.5	620.2	596.6	588.4
70°	1414.3	993.7	475.9	526.0	564.9	656.0	769.6	677.5	570.0	556.7	545.5
72.5°	673.4	555.7	433.9	475.9	500.4	577.2	687.7	611.0	510.7	482.0	462.6
75°	451.3	395.0	378.7	416.5	422.7	484.1	589.5	527.0	450.3	417.5	401.2
77.5°	341.8	301.9	318.3	352.0	339.8	398.1	485.1	469.7	406.3	376.6	368.4
80°	240.5	220.0	252.8	273.2	264.0	338.7	437.0	402.2	334.6	301.9	295.8
82.5°	151.5	147.4	186.3	189.3	192.4	268.1	359.2	316.2	259.9	213.9	198.5
85°	75.7	83.9	111.5	111.5	110.5	138.2	204.7	178.1	140.2	111.5	108.5
87.5°	25.6	35.8	48.1	38.9	29.7	23.5	26.6	32.7	34.8	33.8	33.8
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)