

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: STREETWORKS

Report Number: P386150

Luminaire Tested: GAW-SA1D-730-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-730-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5359 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

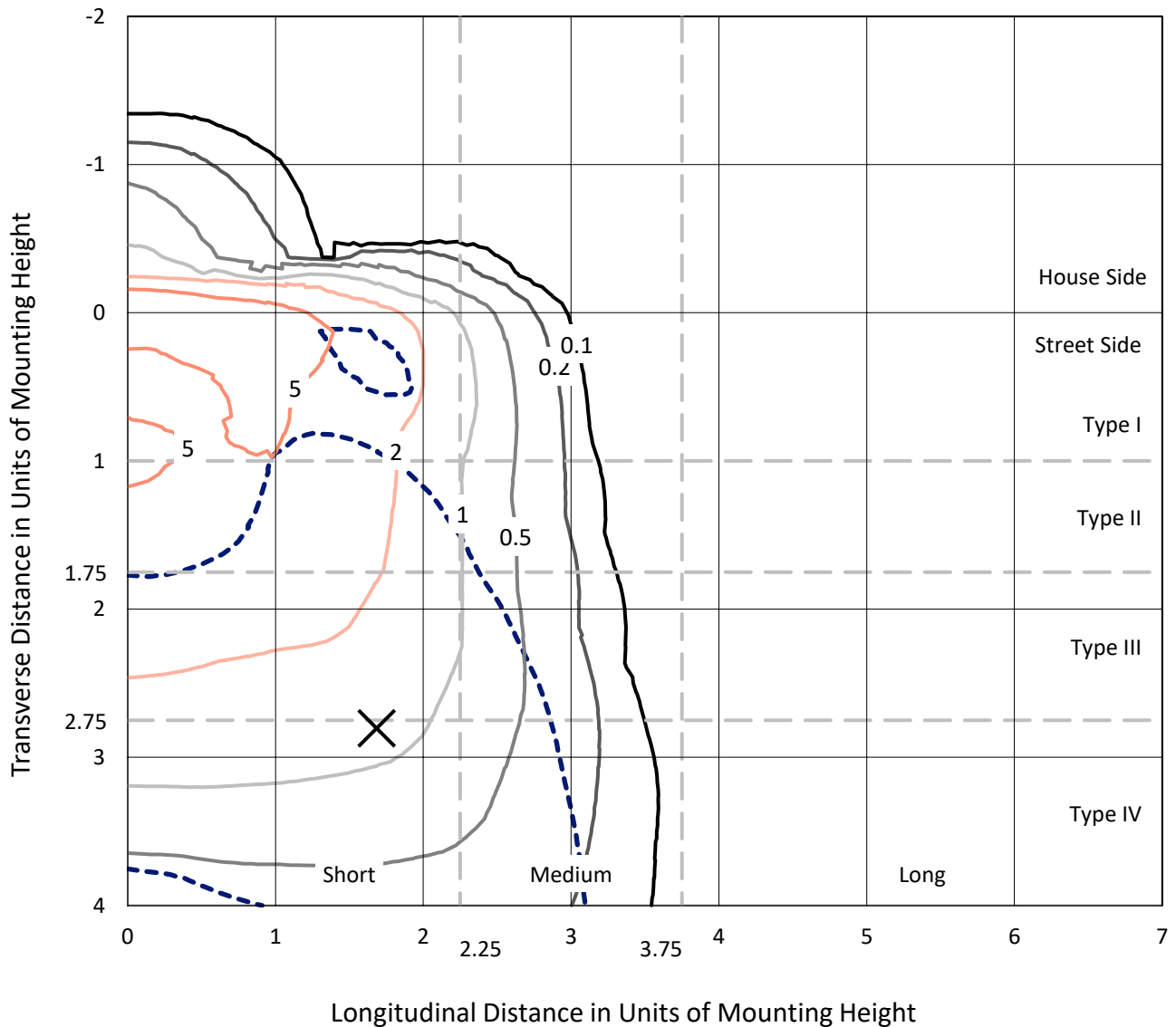
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

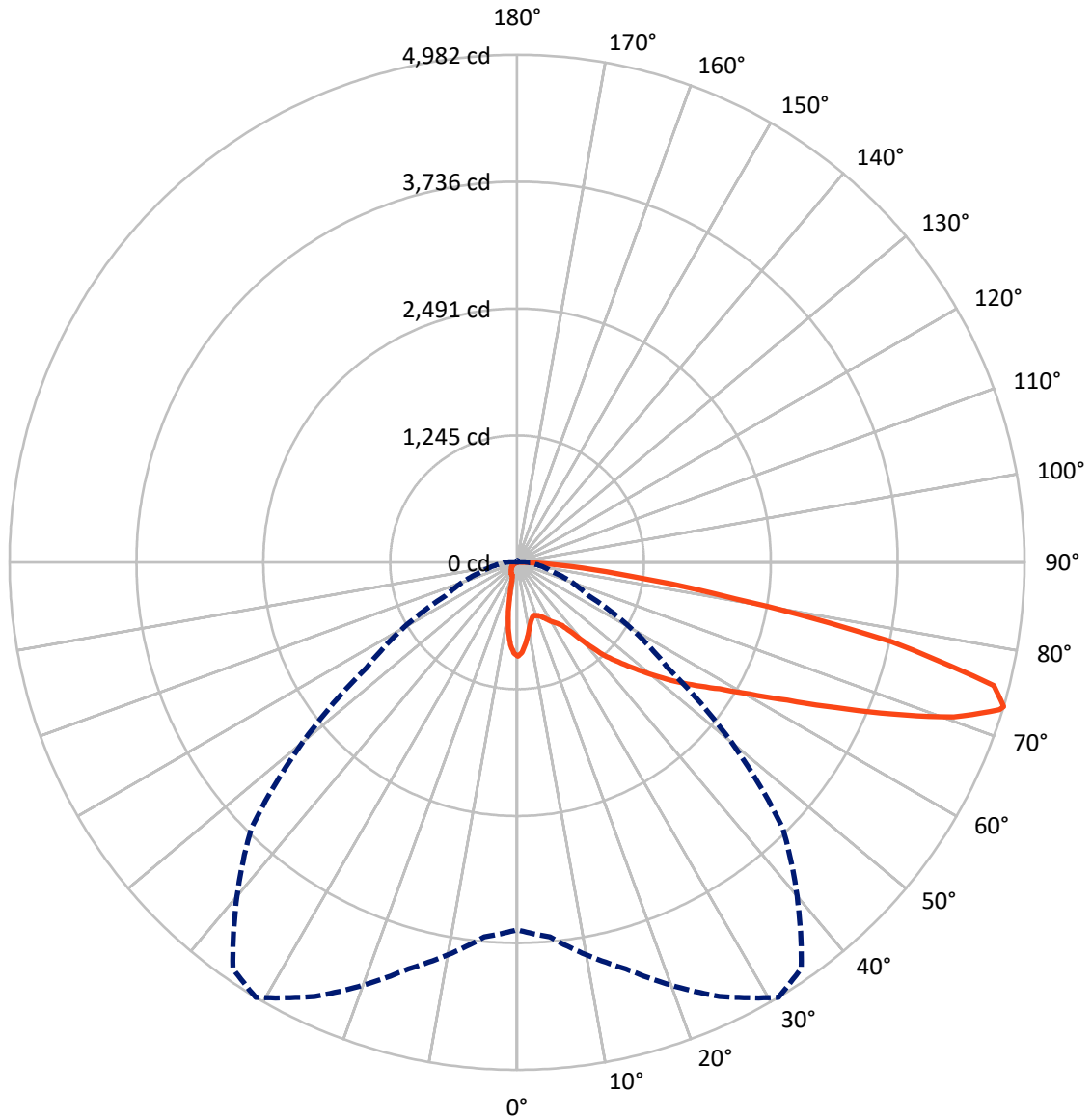
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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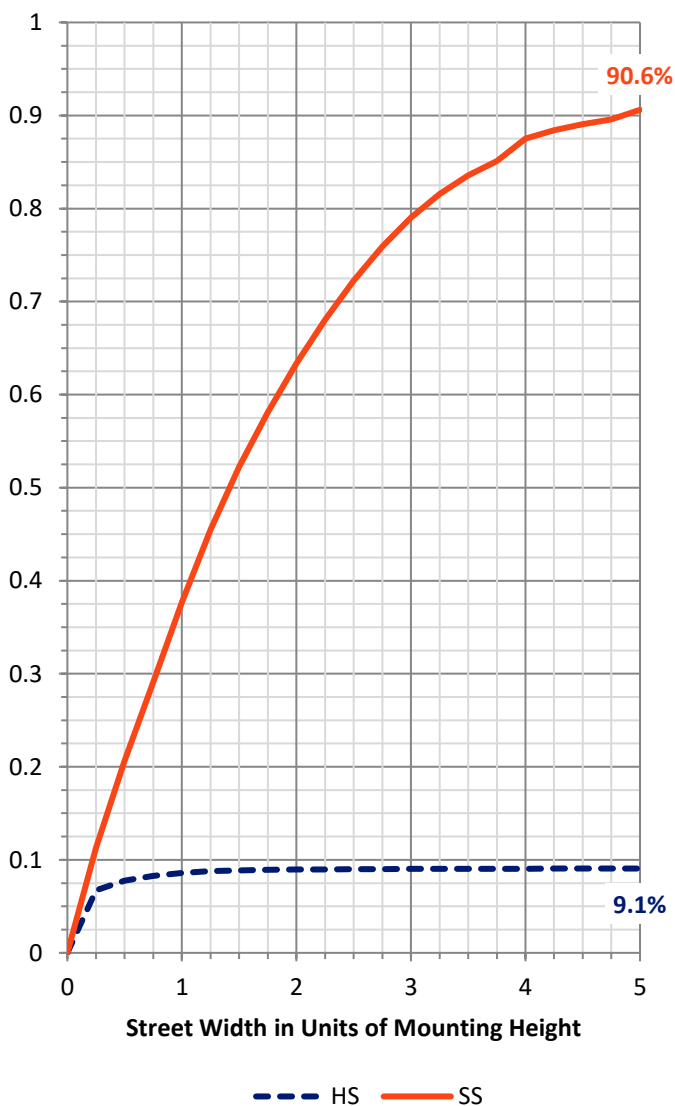
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	488.5	0.0	488.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	4870.5	0.0	4870.5
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	5359.0	0.0	5359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	1.4
10°-20°	166.0	3.1
20°-30°	248.7	4.6
30°-40°	395.7	7.4
40°-50°	706.6	13.2
50°-60°	1096.4	20.5
60°-70°	1457.6	27.2
70°-80°	1096.4	20.5
80°-90°	115.2	2.1
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°	5359.0	100.0
0°-180°	5359.0	100.0

**Coefficient of Utilization**

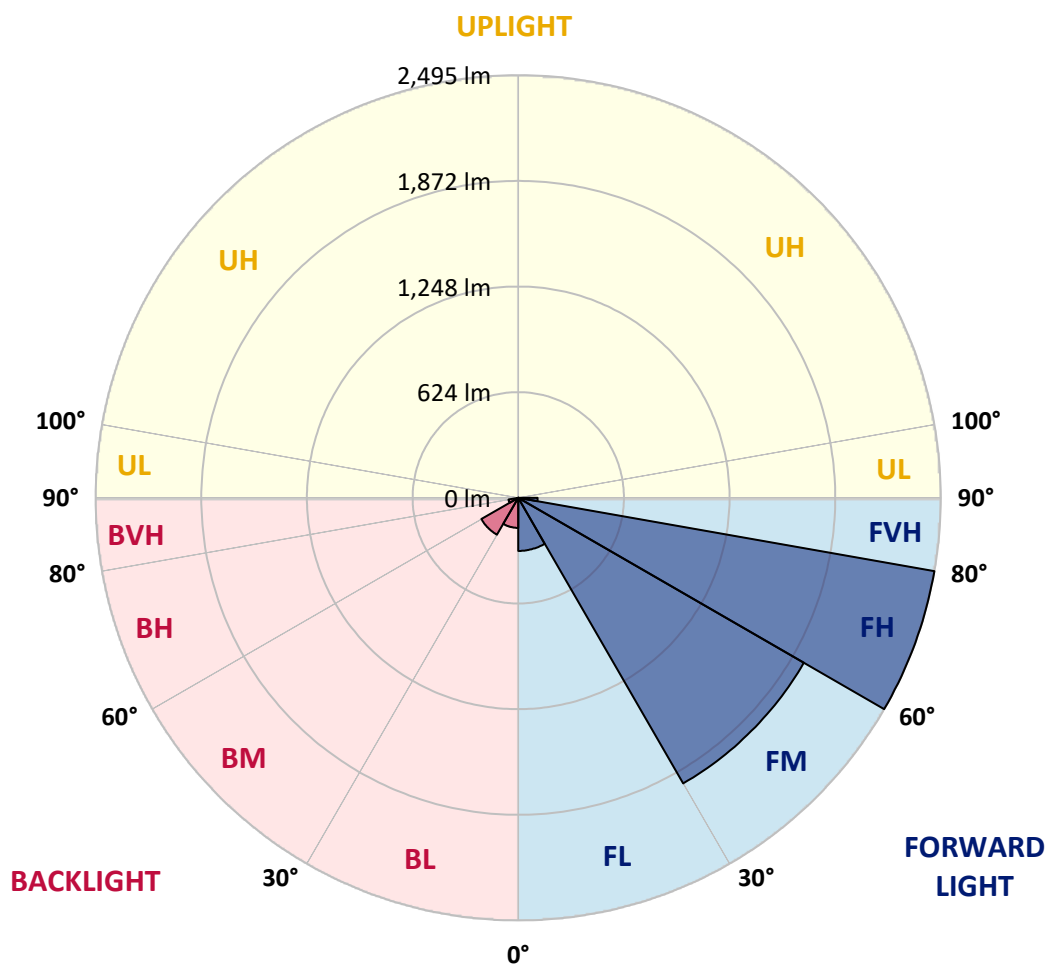


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.5	5.9			
FM (30°-60°)	1947.3	36.3			
FH (60°-80°)	2495.5	46.6			G2/5000
FVH (80°-90°)	114.2	2.1			G2/225
BL (0°-30°)	177.6	3.3	B1/500		
BM (30°-60°)	251.4	4.7	B1/1000		
BH (60°-80°)	58.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0
2.5°	873.8	877.4	881.4	882.2	888.7	889.0	898.4	905.5	912.6	919.4	921.8
5°	784.1	790.1	797.2	804.3	818.2	823.7	846.8	870.4	892.9	914.4	924.9
7.5°	688.4	695.2	705.2	722.7	738.2	749.0	785.4	827.4	869.3	908.9	931.7
10°	601.0	607.3	617.8	636.5	660.3	675.0	724.0	782.3	843.9	903.9	942.0
12.5°	545.5	548.9	554.6	574.6	596.1	612.6	670.3	742.4	822.9	903.7	958.5
15°	535.2	536.3	531.6	540.5	557.3	573.3	631.7	710.1	806.9	907.9	980.0
17.5°	551.5	551.0	535.2	534.2	547.6	560.7	612.8	687.8	795.6	917.6	1007.8
20°	576.1	574.3	547.0	542.0	556.2	568.5	611.5	679.5	791.4	933.8	1041.6
22.5°	608.9	605.8	563.0	557.8	573.0	585.8	627.8	687.6	795.1	955.6	1080.9
25°	649.6	644.8	590.6	584.8	600.3	613.1	656.9	710.9	806.1	982.1	1130.8
27.5°	695.5	688.6	634.6	619.7	637.2	650.6	695.7	746.6	823.4	1010.1	1191.9
30°	738.7	729.8	681.0	656.4	677.9	692.8	737.7	789.1	851.2	1053.4	1275.5
32.5°	782.3	772.3	722.5	693.1	712.5	728.8	780.9	847.6	903.4	1119.5	1386.7
35°	882.4	871.9	810.8	762.3	762.1	771.2	841.5	927.5	972.4	1211.5	1519.4
37.5°	1051.0	1045.0	986.8	894.8	870.1	859.9	924.1	1023.0	1071.5	1338.2	1669.1
40°	1235.7	1230.4	1165.1	1081.7	1044.2	1019.1	1042.7	1155.9	1211.5	1492.9	1822.0
42.5°	1444.1	1419.2	1302.8	1277.9	1244.3	1225.2	1203.9	1319.8	1383.6	1661.3	1973.6
45°	1633.5	1591.5	1440.5	1402.7	1395.1	1399.8	1411.6	1540.1	1577.1	1861.4	2124.6
47.5°	1746.2	1713.2	1597.3	1561.1	1559.0	1590.2	1679.4	1789.0	1769.8	2035.7	2257.6
50°	1853.5	1823.6	1727.4	1736.3	1746.0	1788.5	1983.3	2044.9	1945.8	2193.9	2379.5
52.5°	1940.3	1894.7	1844.3	1894.4	1942.1	2010.6	2296.9	2274.6	2070.6	2319.8	2483.9
55°	1990.4	1969.7	1994.1	2044.4	2134.1	2245.3	2593.0	2465.8	2161.9	2434.6	2553.4
57.5°	2173.9	2133.3	2181.8	2225.3	2342.3	2497.8	2846.6	2608.2	2227.7	2505.7	2569.4
60°	2396.1	2363.3	2391.9	2464.2	2622.1	2804.9	3083.7	2724.4	2262.1	2551.3	2528.0
62.5°	2749.6	2706.3	2688.5	2769.5	2978.8	3178.3	3263.5	2804.9	2254.5	2531.1	2385.8
65°	3223.2	3178.3	3098.6	3172.0	3438.2	3579.0	3464.7	2821.9	2202.0	2367.7	2026.6
67.5°	3708.3	3675.8	3607.6	3731.4	3971.6	4017.0	3677.4	2780.5	2033.1	1919.8	1431.8
70°	4028.8	4014.9	4059.2	4332.9	4547.2	4534.1	3872.5	2557.9	1584.7	1180.6	708.3
72.5°	3797.7	3864.3	4191.6	4688.0	4949.7	4842.7	3772.3	1964.2	905.8	454.2	204.8
73°	3606.3	3691.5	4132.1	4701.4	4981.5	4864.2	3688.1	1802.9	772.0	358.5	155.2
75°	2508.8	2613.5	3420.9	4378.6	4833.0	4634.5	3074.2	1103.5	357.7	158.9	62.7
77.5°	1218.1	1295.5	1883.7	3163.6	3758.6	3621.0	1913.8	411.2	161.5	99.4	28.8
80°	454.7	505.6	817.7	1610.1	2172.1	2229.0	841.8	155.5	107.5	80.0	14.7
82.5°	119.1	132.7	301.6	718.0	1113.2	1165.1	265.4	78.4	78.7	65.8	8.9
85°	38.0	43.5	94.1	322.3	524.5	460.5	69.2	38.0	57.2	49.0	5.0
87.5°	4.7	6.0	29.9	75.8	115.6	64.2	10.8	11.3	24.4	27.3	2.9
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°	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0
2.5°	924.1	922.8	923.1	916.3	911.8	902.9	893.7	889.5	885.1	883.2	885.1
5°	928.8	926.5	919.7	898.7	876.4	847.6	820.5	800.1	774.4	767.3	774.6
7.5°	936.2	931.5	911.5	868.8	819.2	764.2	702.3	657.2	620.2	596.3	605.0
10°	946.9	938.0	897.9	825.3	736.6	639.1	551.2	482.8	434.3	414.3	413.5
12.5°	965.0	948.3	881.1	768.6	635.7	505.6	390.5	316.3	276.9	251.5	251.0
15°	985.0	960.3	859.9	700.7	518.2	362.1	251.5	195.1	169.7	161.5	160.5
17.5°	1009.4	974.2	832.3	617.0	395.2	239.9	164.2	147.9	146.9	146.1	146.1
20°	1040.0	990.7	796.9	521.3	280.3	160.2	139.5	140.6	141.1	140.0	140.3
22.5°	1075.7	1007.5	754.7	418.5	189.6	134.0	133.5	134.8	135.3	134.8	135.1
25°	1117.1	1026.9	703.3	310.8	136.9	127.2	128.5	130.3	131.6	131.6	131.6
27.5°	1168.5	1050.5	641.4	216.9	118.3	120.1	123.8	127.2	129.0	129.5	129.5
30°	1235.4	1079.9	567.2	148.7	107.5	110.7	117.5	124.0	127.4	128.0	128.2
32.5°	1319.8	1112.9	481.2	109.9	98.3	100.7	108.0	119.1	125.6	126.7	126.7
35°	1416.6	1151.2	388.6	95.7	91.8	92.6	98.3	110.9	122.5	125.3	125.6
37.5°	1522.6	1189.0	295.5	89.4	86.3	86.3	90.5	101.2	114.9	123.8	124.8
40°	1621.4	1211.8	207.2	84.4	81.3	81.3	85.0	92.8	105.7	119.1	121.9
42.5°	1712.7	1219.7	144.2	79.7	76.6	77.4	80.5	86.8	96.5	109.9	112.5
45°	1806.6	1218.4	105.2	74.2	71.9	74.2	76.6	81.3	88.4	96.0	96.5
47.5°	1877.4	1207.3	83.4	69.0	67.4	70.5	72.6	75.8	79.7	79.2	79.2
50°	1943.7	1180.6	67.1	61.9	62.9	66.6	67.7	68.7	69.0	64.0	63.5
52.5°	1994.1	1138.9	53.8	54.3	58.5	62.2	61.1	59.5	56.9	50.9	49.8
55°	2010.8	1058.7	42.2	44.8	51.9	56.6	52.7	49.3	44.3	39.3	38.3
57.5°	1980.4	955.1	34.4	34.9	43.8	47.7	43.3	39.3	33.8	29.6	28.8
60°	1915.9	839.9	28.3	26.2	33.8	37.2	34.4	30.4	25.4	22.3	22.0
62.5°	1787.9	717.2	23.3	20.5	25.7	28.6	26.7	23.9	19.7	17.6	17.3
65°	1518.9	573.8	18.9	16.5	19.9	22.3	20.7	18.6	15.5	13.9	13.6
67.5°	1060.2	387.8	15.5	13.6	15.7	17.6	16.3	15.2	12.3	12.1	12.3
70°	511.4	187.0	12.8	11.0	12.3	13.6	13.1	12.3	11.8	13.6	15.7
72.5°	146.6	62.7	10.2	9.2	10.0	10.8	11.3	11.0	12.8	16.5	19.1
73°	112.8	50.6	9.7	8.7	9.4	10.5	11.0	10.8	13.1	16.8	19.1
75°	48.3	24.4	7.3	7.1	7.9	9.2	9.7	9.7	13.1	17.0	18.4
77.5°	21.8	13.1	4.7	5.5	6.8	7.3	8.1	8.1	10.5	13.1	13.1
80°	12.3	7.1	3.7	4.2	5.0	5.0	5.0	4.5	4.7	5.2	5.8
82.5°	7.9	4.7	2.9	3.4	3.1	2.6	2.1	2.1	1.8	2.1	2.6
85°	4.5	2.6	2.6	2.1	1.3	1.0	1.3	1.0	0.3	0.0	0.3
87.5°	2.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	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)