

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: P386398

Luminaire Tested: GAW-SA2A-735-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6658.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

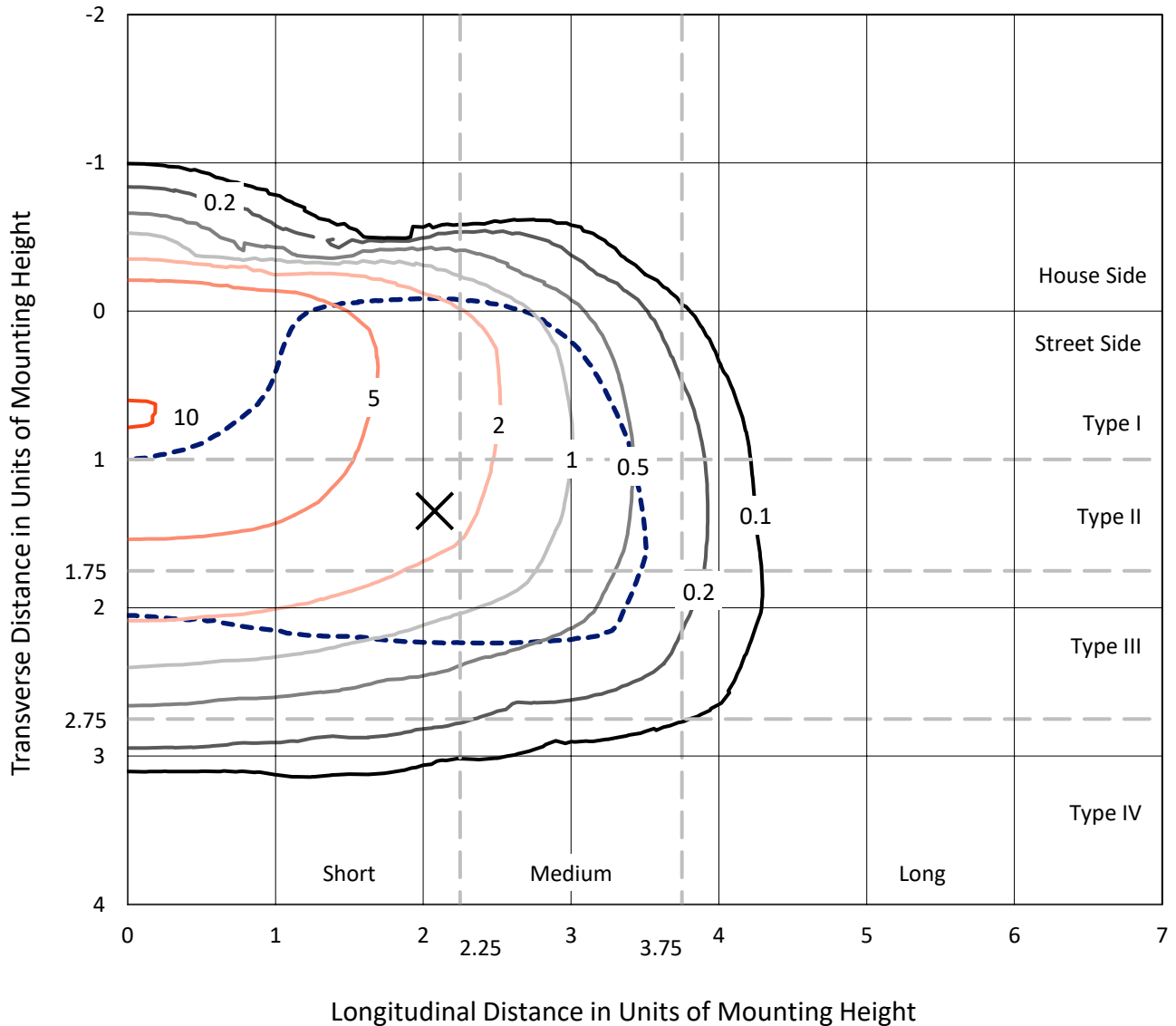
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

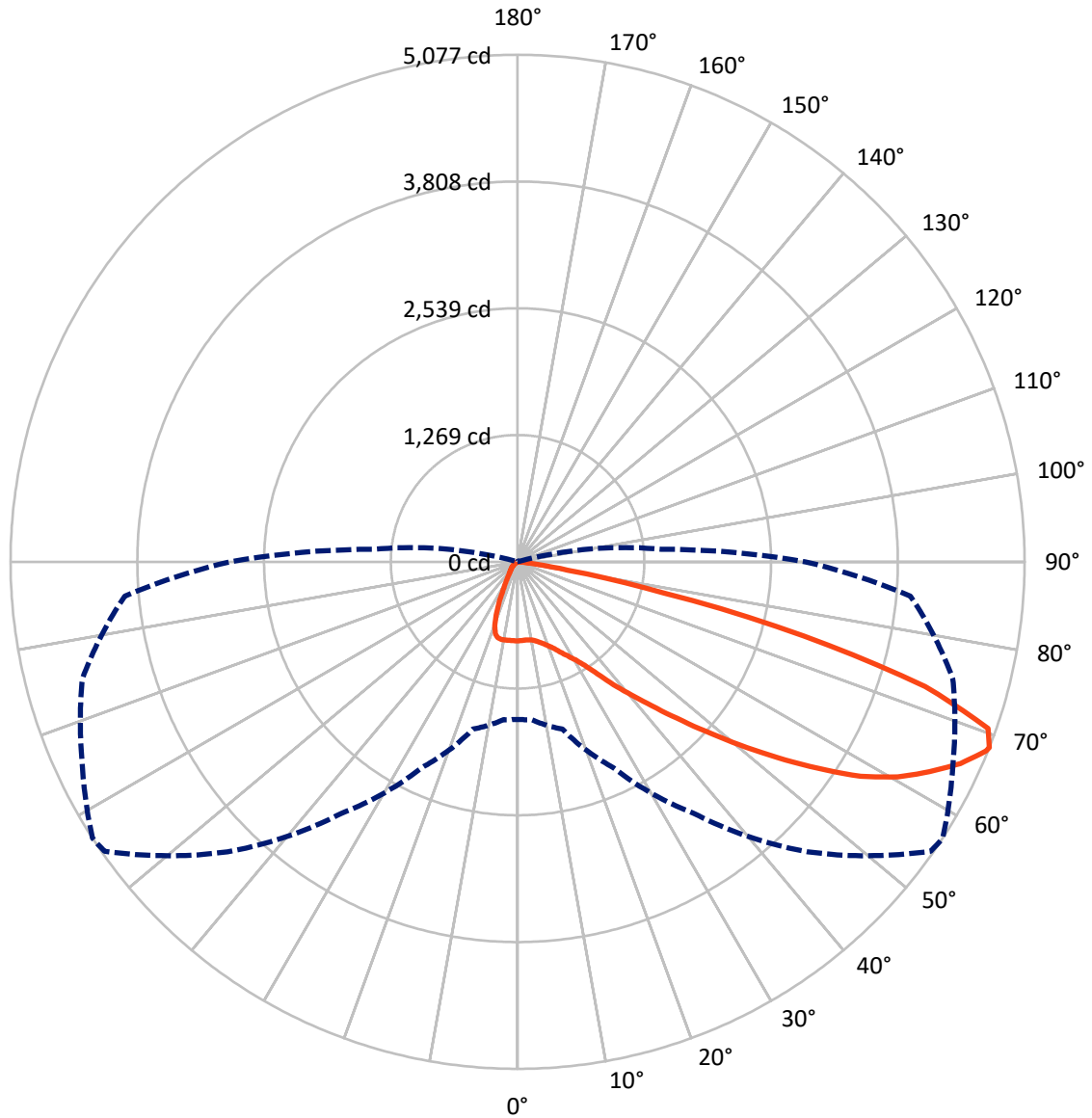
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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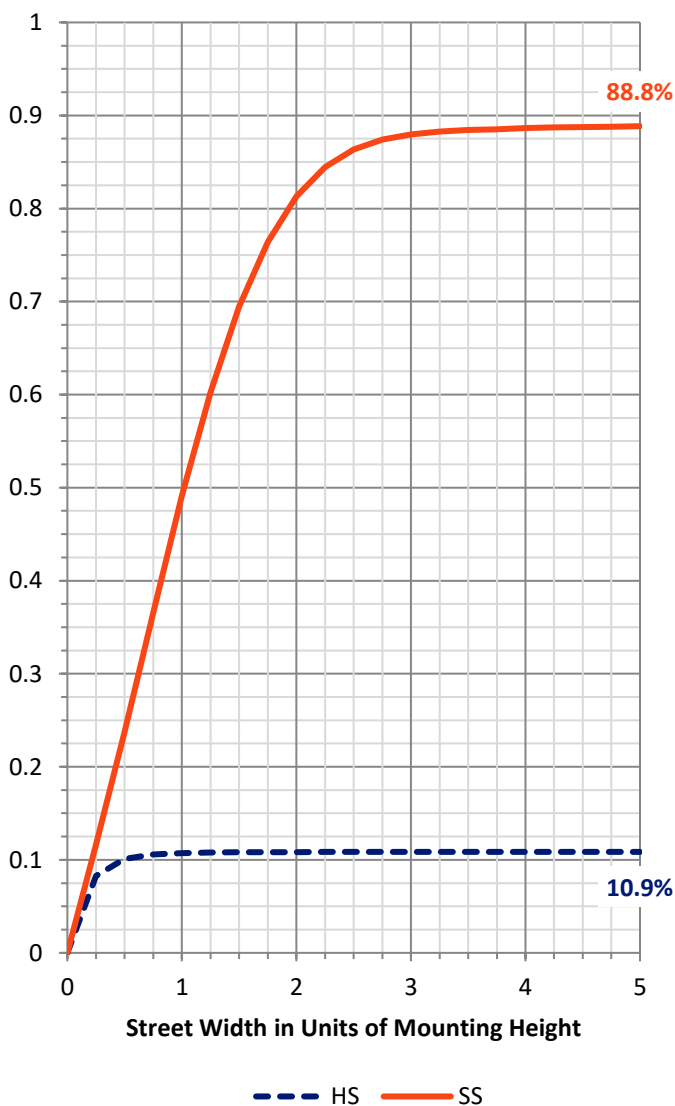
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	730.1	0.0	730.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5928.3	0.0	5928.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	6658.4	0.0	6658.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.1
10°-20°	205.2	3.1
20°-30°	354.0	5.3
30°-40°	610.9	9.2
40°-50°	1045.0	15.7
50°-60°	1671.9	25.1
60°-70°	1931.7	29.0
70°-80°	738.1	11.1
80°-90°	27.7	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°	6658.4	100.0
0°-180°	6658.4	100.0

Coefficient of Utilization



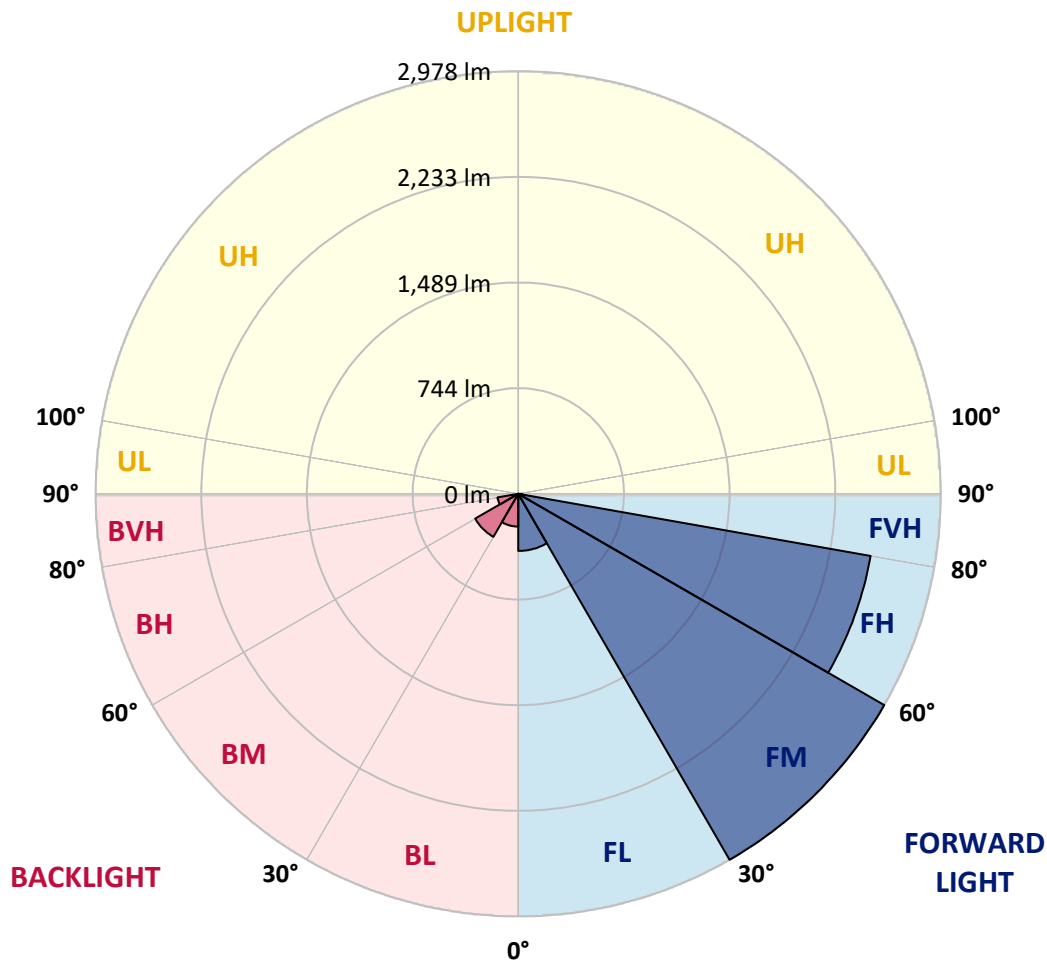
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.4	6.0			
FM (30°-60°)	2977.6	44.7			
FH (60°-80°)	2521.1	37.9			G2/5000
FVH (80°-90°)	27.2	0.4			G1/100
BL (0°-30°)	230.7	3.5	B1/500		
BM (30°-60°)	350.2	5.3	B1/1000		
BH (60°-80°)	148.7	2.2	B1/500		G1/500
BVH (80°-90°)	0.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	772.7	776.1	778.6	780.2	782.0	786.2	787.4	789.3	790.2	790.2	792.5
5°	742.1	745.9	751.2	755.6	764.5	775.8	783.9	787.1	792.8	797.8	800.6
7.5°	713.8	718.2	724.5	734.8	749.9	768.2	785.2	789.7	800.6	811.4	816.7
10°	695.5	698.9	707.2	721.9	741.7	767.3	791.2	796.5	815.4	833.4	843.5
12.5°	689.2	692.3	700.9	717.5	742.1	772.0	805.1	813.0	840.7	866.8	881.0
15°	698.3	698.9	708.1	723.8	748.0	783.6	828.1	837.5	872.4	906.4	924.1
17.5°	733.6	730.8	735.5	742.4	761.6	799.0	852.3	866.4	913.0	953.0	969.7
20°	821.8	821.8	811.1	792.1	792.5	823.0	885.0	901.1	958.1	1004.3	1019.4
22.5°	972.6	969.7	948.3	902.0	859.5	864.2	925.0	945.8	1012.2	1061.6	1066.7
25°	1153.9	1150.5	1117.4	1052.2	978.6	930.9	979.1	1003.1	1076.7	1120.5	1110.2
27.5°	1346.0	1343.1	1310.4	1229.5	1124.6	1037.4	1043.7	1066.4	1142.6	1185.7	1152.6
30°	1532.1	1533.0	1500.5	1417.5	1298.7	1173.1	1125.6	1138.8	1206.5	1250.2	1203.0
32.5°	1708.9	1710.3	1682.2	1589.4	1478.5	1330.8	1238.9	1235.4	1280.8	1323.9	1269.8
35°	1866.7	1869.9	1850.6	1778.6	1661.1	1506.5	1385.9	1377.7	1386.3	1435.0	1372.1
37.5°	2018.8	2020.6	2006.2	1945.4	1847.1	1699.6	1571.7	1560.1	1541.7	1579.2	1507.2
40°	2185.3	2180.6	2163.9	2108.8	2024.4	1912.7	1771.3	1751.1	1719.4	1752.7	1684.7
42.5°	2340.2	2334.9	2337.7	2275.4	2204.2	2131.8	2004.0	1969.3	1950.7	1989.2	1902.6
45°	2533.8	2531.0	2540.5	2486.3	2428.7	2376.1	2270.6	2232.8	2224.7	2269.7	2166.1
47.5°	2725.0	2731.9	2761.2	2738.1	2714.8	2668.6	2553.1	2536.1	2541.1	2595.5	2444.1
50°	2884.2	2892.5	2972.7	2999.2	3032.8	3005.8	2890.0	2879.5	2899.3	2948.5	2743.2
52.5°	2999.5	3016.2	3116.0	3237.8	3360.6	3378.9	3263.4	3253.9	3280.6	3288.2	2974.3
55°	3079.4	3094.3	3207.3	3430.2	3680.2	3758.9	3687.1	3650.6	3645.5	3570.9	3217.3
57.5°	3093.6	3092.0	3254.5	3554.6	3930.8	4133.9	4088.5	4052.6	3949.4	3832.3	3496.0
60°	3013.7	3022.8	3211.4	3597.7	4088.2	4417.5	4421.0	4374.4	4213.6	4086.4	3766.1
62.5°	2767.5	2804.6	2995.1	3484.7	4086.4	4531.8	4664.7	4629.1	4436.8	4294.4	4040.1
65°	2368.2	2381.5	2563.1	3097.4	3810.2	4484.0	4884.1	4870.9	4637.9	4496.6	4180.8
67.5°	1729.4	1700.8	1891.6	2439.0	3225.9	4205.0	5041.5	5058.3	4793.2	4538.1	4030.9
68°	1578.3	1586.8	1735.4	2276.3	3072.9	4106.5	5052.0	5077.4	4808.6	4511.1	3949.0
70°	940.7	957.1	1089.7	1567.3	2337.7	3548.9	4939.9	4998.1	4716.6	4231.8	3415.7
72.5°	240.2	259.7	385.1	701.4	1335.3	2500.5	4170.1	4268.6	4095.1	3433.0	2305.9
75°	98.8	103.9	137.6	231.1	497.4	1126.5	2748.6	2959.5	2838.9	2055.3	1042.2
77.5°	68.3	71.8	88.5	128.1	215.3	381.9	1347.6	1499.9	1351.3	701.4	227.3
80°	49.1	51.9	63.3	85.3	123.7	136.3	439.2	507.8	403.3	154.0	56.4
82.5°	29.3	31.5	47.3	60.8	75.2	65.2	109.3	124.1	116.8	76.5	25.2
85°	14.5	17.0	31.8	43.5	40.6	27.4	33.3	37.1	45.9	46.6	13.5
87.5°	0.9	1.9	18.6	26.1	11.4	6.3	9.8	11.9	16.3	23.0	5.6
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°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	793.4	793.7	791.5	790.6	791.2	787.4	785.8	786.5	786.5	787.4	785.8
5°	801.3	801.3	797.5	792.5	789.7	782.4	777.6	776.4	775.5	774.8	773.6
7.5°	818.3	816.4	809.8	798.8	789.3	773.6	761.6	755.3	752.2	750.9	749.9
10°	845.6	842.2	831.2	810.7	789.0	761.0	734.8	716.3	700.9	694.5	690.7
12.5°	882.5	877.5	858.9	824.9	786.7	735.2	678.5	624.0	573.3	552.6	542.1
15°	925.0	917.8	888.5	836.8	773.9	676.9	553.8	458.4	388.2	361.8	350.4
17.5°	968.1	958.7	914.3	844.4	735.2	556.3	388.5	293.5	246.5	233.9	229.5
20°	1011.5	997.7	936.7	838.7	647.6	401.1	256.3	214.4	200.8	197.1	195.9
22.5°	1052.9	1031.5	956.8	816.7	512.9	269.2	202.7	189.6	185.2	182.9	182.3
25°	1088.8	1058.8	974.4	748.7	363.0	203.4	182.6	178.2	172.6	168.4	168.7
27.5°	1122.4	1086.2	985.1	636.6	242.1	173.8	169.1	163.1	152.7	146.7	146.7
30°	1163.1	1122.8	993.0	489.9	178.2	153.7	149.8	140.7	126.5	118.7	118.7
32.5°	1224.1	1178.1	988.0	343.8	147.7	135.1	126.3	113.7	98.3	90.7	90.4
35°	1317.6	1263.8	952.1	225.5	130.4	117.4	103.2	87.8	74.3	68.0	67.7
37.5°	1443.6	1378.4	871.5	161.2	116.8	101.1	84.1	67.1	57.0	52.9	52.6
40°	1606.9	1511.6	756.2	130.7	104.2	85.3	64.8	51.9	45.0	41.9	42.2
42.5°	1803.1	1654.2	618.0	112.7	92.0	70.2	50.7	41.0	36.5	34.3	33.7
45°	2021.0	1794.9	473.2	100.4	79.7	56.6	39.6	32.4	28.9	27.7	27.7
47.5°	2260.6	1931.9	346.4	89.7	66.4	43.8	31.8	26.5	23.6	22.6	22.4
50°	2478.1	2026.9	249.7	78.4	54.5	34.7	25.8	22.1	20.1	18.9	18.9
52.5°	2659.4	2056.9	183.8	66.1	44.1	27.7	21.4	18.9	17.0	16.1	16.1
55°	2819.1	2044.6	136.7	54.5	35.6	22.6	18.2	16.1	14.5	13.5	13.5
57.5°	2972.1	2004.9	102.0	44.4	28.7	18.2	15.4	13.5	11.9	11.4	11.4
60°	3097.1	1938.8	75.9	35.9	23.0	14.8	12.9	11.0	9.8	8.8	8.8
62.5°	3198.4	1865.7	55.7	29.6	18.2	11.6	10.1	9.1	7.2	6.3	6.3
65°	3199.1	1744.5	41.9	24.5	14.2	9.1	7.5	7.2	4.7	3.8	3.5
67.5°	2967.7	1504.0	32.1	21.1	11.0	7.0	5.6	6.0	2.5	1.6	1.2
68°	2883.7	1442.9	30.2	20.8	10.4	6.6	5.4	6.0	2.2	1.2	0.9
70°	2431.2	1147.9	24.2	20.1	9.1	5.1	4.4	6.0	1.9	0.9	0.7
72.5°	1555.0	666.2	17.9	16.1	7.0	3.8	2.8	5.4	1.9	0.7	0.3
75°	661.8	206.6	12.3	11.4	4.1	2.8	1.9	3.5	1.2	0.3	0.0
77.5°	139.5	46.6	7.2	7.0	2.8	1.9	1.2	0.9	0.3	0.0	0.0
80°	35.9	13.5	3.8	3.5	1.6	0.9	0.7	0.0	0.0	0.0	0.0
82.5°	11.4	5.4	2.2	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	3.2	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.9	0.3	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)