

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: P386178

Luminaire Tested: GAW-SA1D-740-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386178
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-740-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 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: 5886 lumens
Efficiency: N/A
Efficacy: 87.9 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

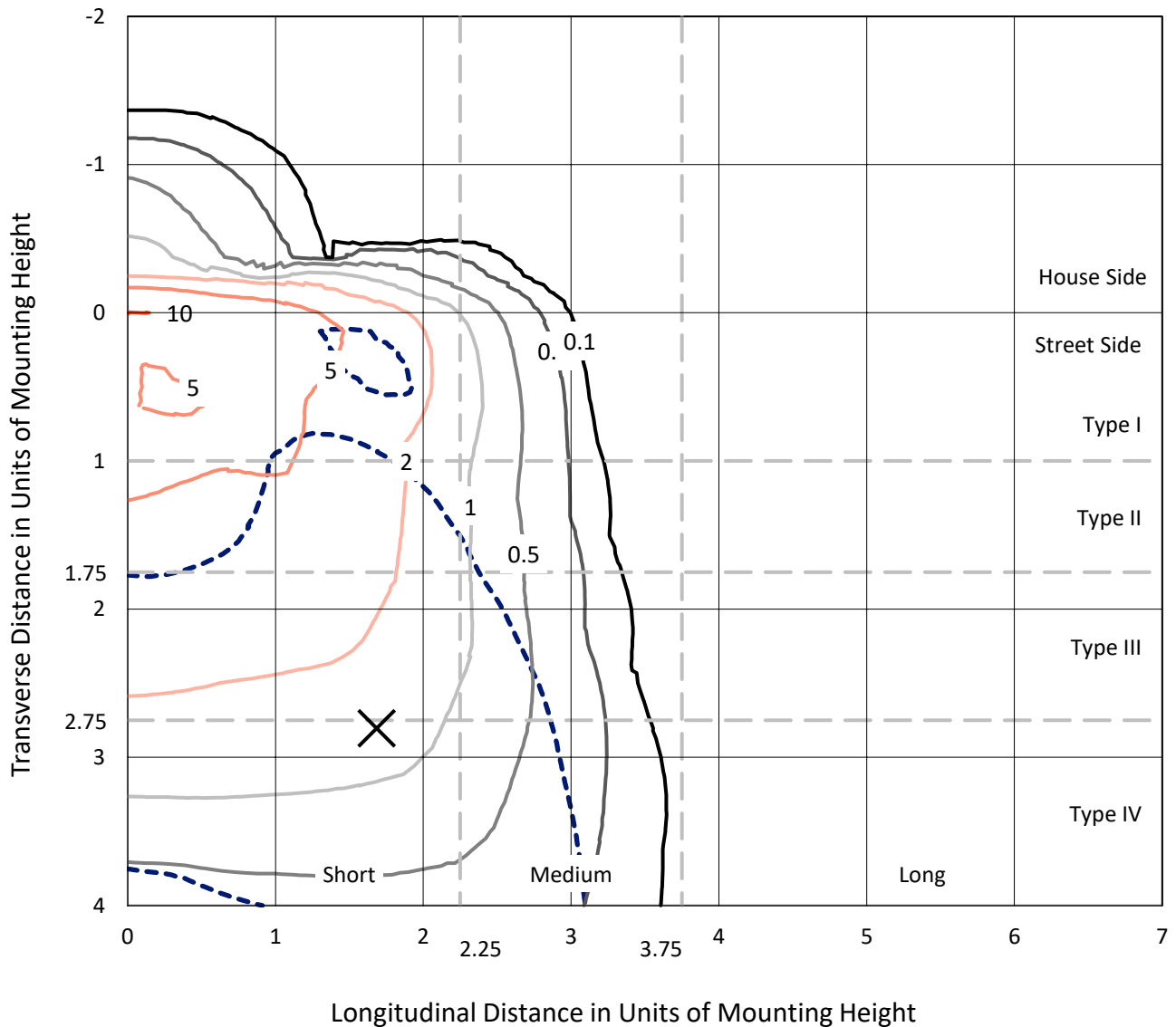
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386178
 CATALOG NUMBER: GAW-SA1D-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

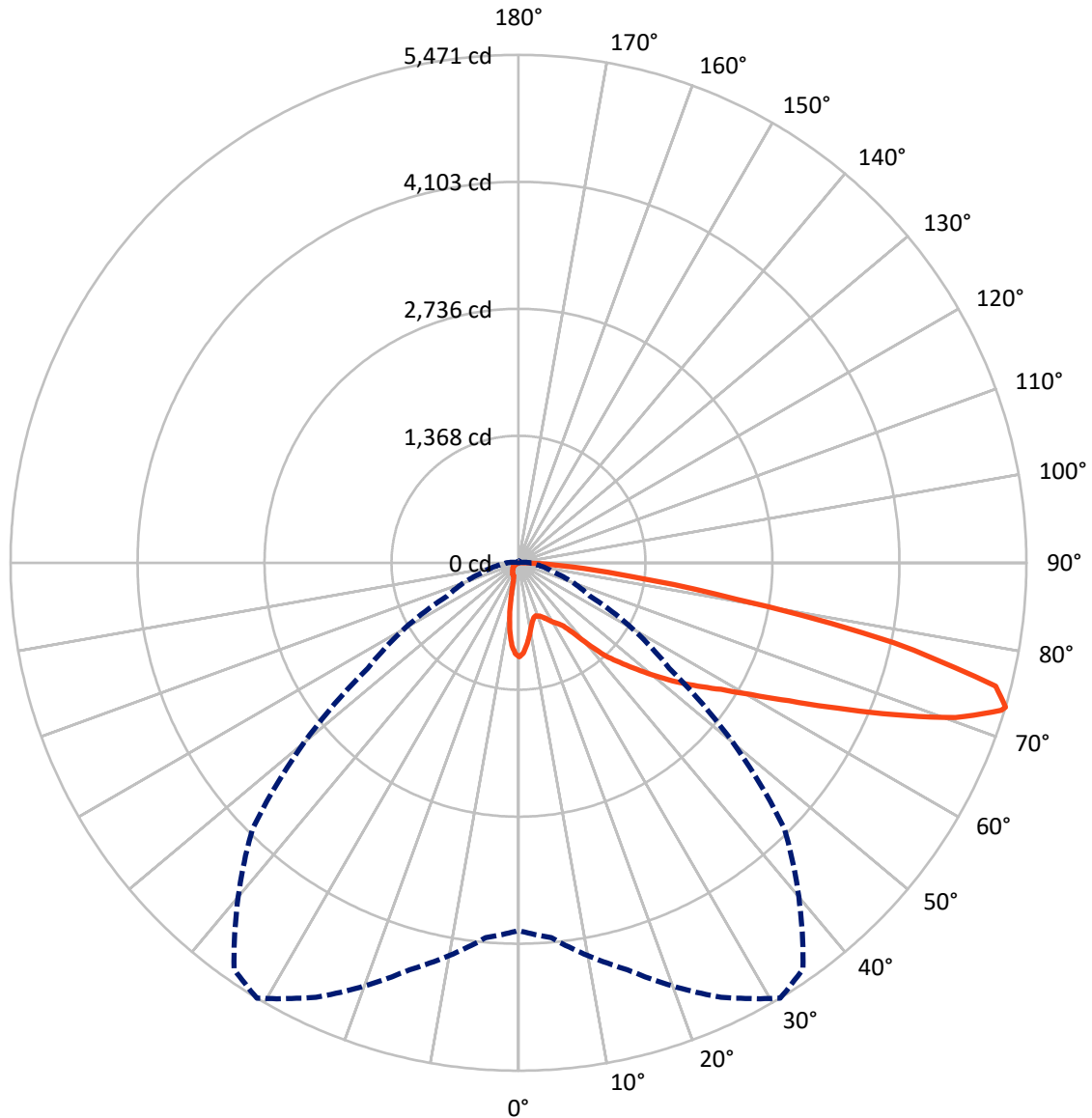
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P386178
CATALOG NUMBER: GAW-SA1D-740-U-T4FT-HSS

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
House Side	Lumens	536.5	0.0	536.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5349.5	0.0	5349.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	5886.0	0.0	5886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.4
10°-20°	182.3	3.1
20°-30°	273.2	4.6
30°-40°	434.6	7.4
40°-50°	776.1	13.2
50°-60°	1204.3	20.5
60°-70°	1600.9	27.2
70°-80°	1204.2	20.5
80°-90°	126.5	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°	5886.0	100.0
0°-180°	5886.0	100.0



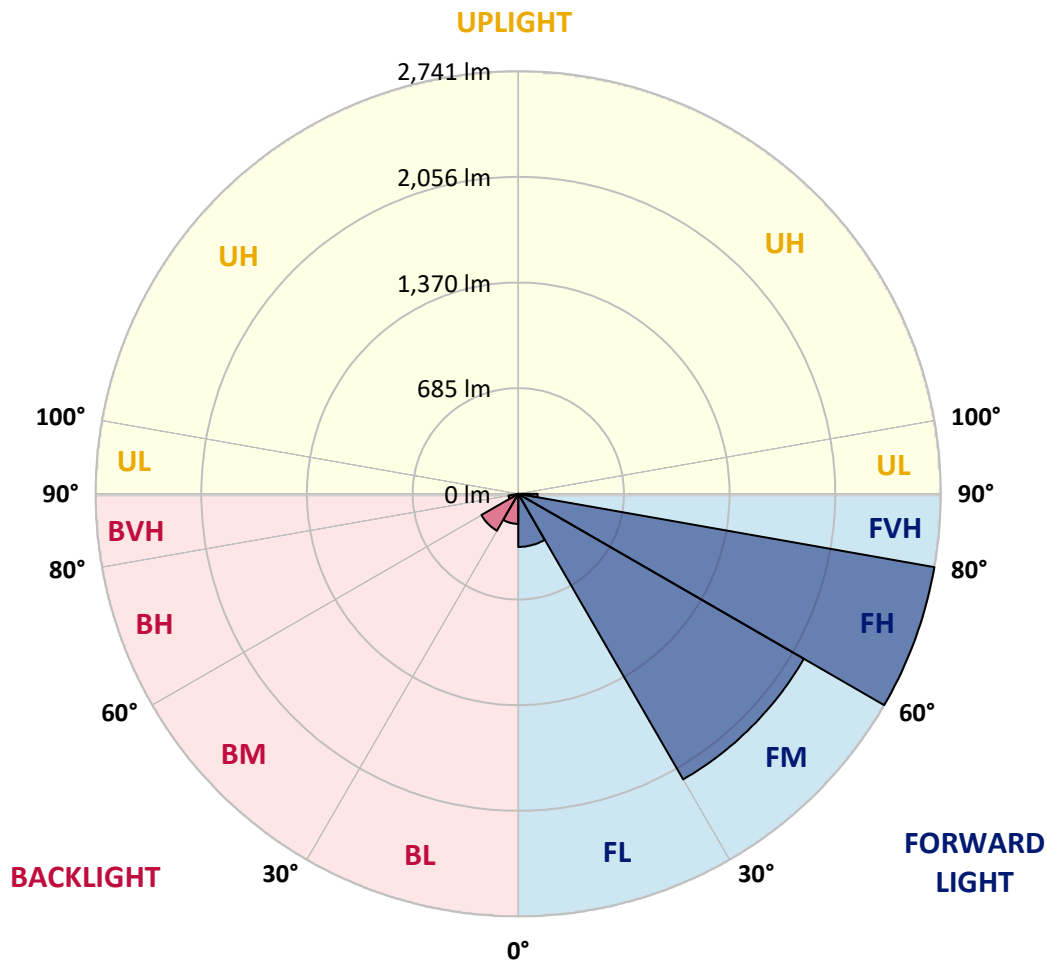
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.3	5.9			
FM (30°-60°)	2138.8	36.3			
FH (60°-80°)	2740.9	46.6			G2/5000
FVH (80°-90°)	125.5	2.1			G2/225
BL (0°-30°)	195.1	3.3	B1/500		
BM (30°-60°)	276.2	4.7	B1/1000		
BH (60°-80°)	64.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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





REPORT NUMBER: P386178

CATALOG NUMBER: GAW-SA1D-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	959.7	963.7	968.1	968.9	976.1	976.4	986.8	994.6	1002.3	1009.8	1012.4
5°	861.2	867.8	875.6	883.4	898.6	904.7	930.0	956.0	980.7	1004.3	1015.9
7.5°	756.1	763.6	774.5	793.8	810.8	822.6	862.6	908.7	954.8	998.3	1023.4
10°	660.2	667.1	678.6	699.0	725.2	741.4	795.2	859.2	926.9	992.8	1034.6
12.5°	599.1	602.8	609.2	631.1	654.7	672.8	736.2	815.4	903.8	992.5	1052.7
15°	587.9	589.0	583.8	593.6	612.1	629.6	693.9	780.0	886.3	997.1	1076.4
17.5°	605.7	605.1	587.9	586.7	601.4	615.8	673.1	755.5	873.9	1007.8	1106.9
20°	632.8	630.8	600.8	595.3	610.9	624.4	671.7	746.3	869.3	1025.7	1144.0
22.5°	668.8	665.3	618.4	612.6	629.3	643.4	689.5	755.2	873.3	1049.6	1187.2
25°	713.4	708.3	648.6	642.3	659.3	673.4	721.5	780.8	885.4	1078.7	1242.0
27.5°	763.8	756.4	697.0	680.6	699.9	714.6	764.1	820.0	904.4	1109.5	1309.1
30°	811.4	801.6	748.0	720.9	744.5	761.0	810.2	866.7	934.9	1157.0	1401.0
32.5°	859.2	848.2	793.5	761.3	782.6	800.4	857.7	930.9	992.2	1229.6	1523.1
35°	969.2	957.7	890.6	837.3	837.0	847.1	924.3	1018.7	1068.0	1330.7	1668.8
37.5°	1154.4	1147.8	1083.8	982.7	955.7	944.4	1015.0	1123.6	1176.9	1469.8	1833.3
40°	1357.2	1351.4	1279.7	1188.1	1146.9	1119.3	1145.2	1269.6	1330.7	1639.7	2001.2
42.5°	1586.2	1558.8	1430.9	1403.5	1366.7	1345.7	1322.3	1449.6	1519.6	1824.6	2167.7
45°	1794.1	1748.0	1582.1	1540.6	1532.3	1537.5	1550.4	1691.6	1732.2	2044.4	2333.6
47.5°	1918.0	1881.7	1754.4	1714.6	1712.3	1746.6	1844.5	1964.9	1943.9	2235.9	2479.6
50°	2035.8	2002.9	1897.2	1907.0	1917.7	1964.3	2178.3	2246.0	2137.2	2409.6	2613.5
52.5°	2131.1	2081.0	2025.7	2080.7	2133.1	2208.3	2522.8	2498.3	2274.3	2547.9	2728.2
55°	2186.1	2163.4	2190.1	2245.4	2344.0	2466.1	2848.0	2708.3	2374.5	2674.0	2804.5
57.5°	2387.7	2343.1	2396.4	2444.2	2572.6	2743.4	3126.5	2864.7	2446.8	2752.1	2822.1
60°	2631.7	2595.7	2627.1	2706.6	2880.0	3080.7	3386.9	2992.3	2484.5	2802.2	2776.6
62.5°	3019.9	2972.4	2952.8	3041.8	3271.7	3490.9	3584.5	3080.7	2476.2	2780.0	2620.5
65°	3540.1	3490.9	3403.3	3484.0	3776.3	3931.0	3805.4	3099.4	2418.6	2600.6	2225.9
67.5°	4073.0	4037.3	3962.4	4098.3	4362.1	4412.0	4039.0	3053.9	2233.1	2108.6	1572.6
70°	4424.9	4409.7	4458.3	4759.0	4994.4	4980.0	4253.3	2809.4	1740.5	1296.7	778.0
72.5°	4171.2	4244.3	4603.8	5149.0	5436.5	5319.0	4143.2	2157.3	994.8	498.9	224.9
73°	3960.9	4054.5	4538.4	5163.7	5471.3	5342.6	4050.8	1980.2	847.9	393.7	170.5
75°	2755.5	2870.5	3757.3	4809.2	5308.3	5090.3	3376.5	1212.0	392.9	174.5	68.8
77.5°	1337.9	1422.8	2068.9	3474.7	4128.3	3977.1	2102.0	451.6	177.4	109.2	31.7
80°	499.4	555.3	898.1	1768.5	2385.7	2448.2	924.6	170.8	118.1	87.8	16.1
82.5°	130.8	145.7	331.2	788.6	1222.7	1279.7	291.5	86.1	86.4	72.3	9.8
85°	41.8	47.8	103.4	354.0	576.1	505.8	76.0	41.8	62.8	53.9	5.5
87.5°	5.2	6.6	32.8	83.2	127.0	70.6	11.8	12.4	26.8	30.0	3.2
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: P386178

CATALOG NUMBER: GAW-SA1D-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1015.0	1013.6	1013.9	1006.4	1001.5	991.7	981.6	977.0	972.1	970.1	972.1
5°	1020.2	1017.6	1010.1	987.1	962.6	930.9	901.2	878.8	850.5	842.8	850.8
7.5°	1028.3	1023.1	1001.2	954.2	899.8	839.3	771.3	721.8	681.2	655.0	664.5
10°	1040.1	1030.3	986.2	906.4	809.1	701.9	605.4	530.3	477.0	455.1	454.2
12.5°	1059.9	1041.5	967.8	844.2	698.2	555.3	428.9	347.4	304.2	276.2	275.6
15°	1081.8	1054.8	944.4	769.6	569.1	397.8	276.2	214.3	186.4	177.4	176.3
17.5°	1108.6	1070.0	914.2	677.7	434.1	263.5	180.3	162.4	161.3	160.4	160.4
20°	1142.3	1088.2	875.3	572.6	307.9	176.0	153.2	154.4	155.0	153.8	154.1
22.5°	1181.5	1106.6	828.9	459.7	208.2	147.2	146.6	148.0	148.6	148.0	148.3
25°	1227.0	1127.9	772.5	341.3	150.3	139.7	141.1	143.1	144.6	144.6	144.6
27.5°	1283.4	1153.8	704.5	238.2	129.9	131.9	135.9	139.7	141.7	142.3	142.3
30°	1356.9	1186.1	623.0	163.3	118.1	121.5	129.0	136.2	140.0	140.6	140.8
32.5°	1449.6	1222.4	528.5	120.7	108.0	110.6	118.7	130.8	138.0	139.1	139.1
35°	1555.9	1264.4	426.9	105.1	100.8	101.7	108.0	121.8	134.5	137.7	138.0
37.5°	1672.3	1305.9	324.6	98.2	94.8	94.8	99.4	111.2	126.2	135.9	137.1
40°	1780.9	1331.0	227.5	92.7	89.3	89.3	93.3	102.0	116.1	130.8	133.9
42.5°	1881.1	1339.6	158.4	87.6	84.1	85.0	88.4	95.3	106.0	120.7	123.6
45°	1984.2	1338.2	115.5	81.5	78.9	81.5	84.1	89.3	97.1	105.4	106.0
47.5°	2062.0	1326.1	91.6	75.8	74.0	77.5	79.8	83.2	87.6	87.0	87.0
50°	2134.8	1296.7	73.7	68.0	69.1	73.2	74.3	75.5	75.8	70.3	69.7
52.5°	2190.1	1250.9	59.0	59.6	64.2	68.3	67.1	65.4	62.5	55.9	54.7
55°	2208.6	1162.8	46.4	49.3	57.0	62.2	57.9	54.1	48.7	43.2	42.1
57.5°	2175.2	1049.0	37.7	38.3	48.1	52.4	47.5	43.2	37.2	32.5	31.7
60°	2104.3	922.5	31.1	28.8	37.2	40.9	37.7	33.4	27.9	24.5	24.2
62.5°	1963.8	787.8	25.6	22.5	28.2	31.4	29.4	26.2	21.6	19.3	19.0
65°	1668.2	630.2	20.7	18.1	21.9	24.5	22.8	20.4	17.0	15.3	15.0
67.5°	1164.5	426.0	17.0	15.0	17.3	19.3	17.9	16.7	13.5	13.2	13.5
70°	561.7	205.4	14.1	12.1	13.5	15.0	14.4	13.5	13.0	15.0	17.3
72.5°	161.0	68.8	11.2	10.1	10.9	11.8	12.4	12.1	14.1	18.1	21.0
73°	123.9	55.6	10.7	9.5	10.4	11.5	12.1	11.8	14.4	18.4	21.0
75°	53.0	26.8	8.1	7.8	8.6	10.1	10.7	10.7	14.4	18.7	20.2
77.5°	23.9	14.4	5.2	6.0	7.5	8.1	8.9	8.9	11.5	14.4	14.4
80°	13.5	7.8	4.0	4.6	5.5	5.5	5.5	4.9	5.2	5.8	6.3
82.5°	8.6	5.2	3.2	3.7	3.5	2.9	2.3	2.3	2.0	2.3	2.9
85°	4.9	2.9	2.9	2.3	1.4	1.2	1.4	1.2	0.3	0.0	0.3
87.5°	2.9	1.7	0.9	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)