

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324735

Luminaire Tested: **GAN-SA1D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5562 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

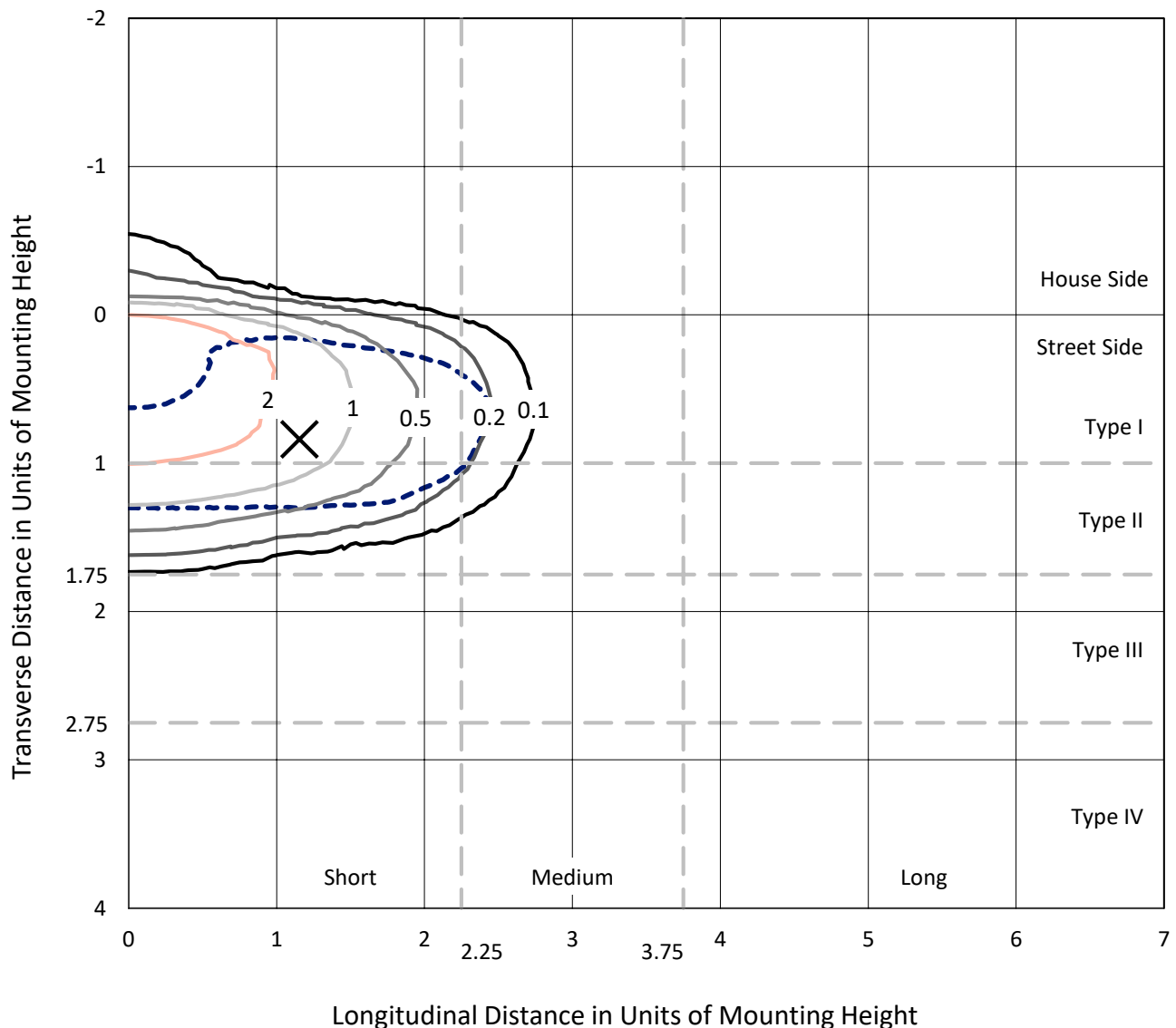
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324735
 CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

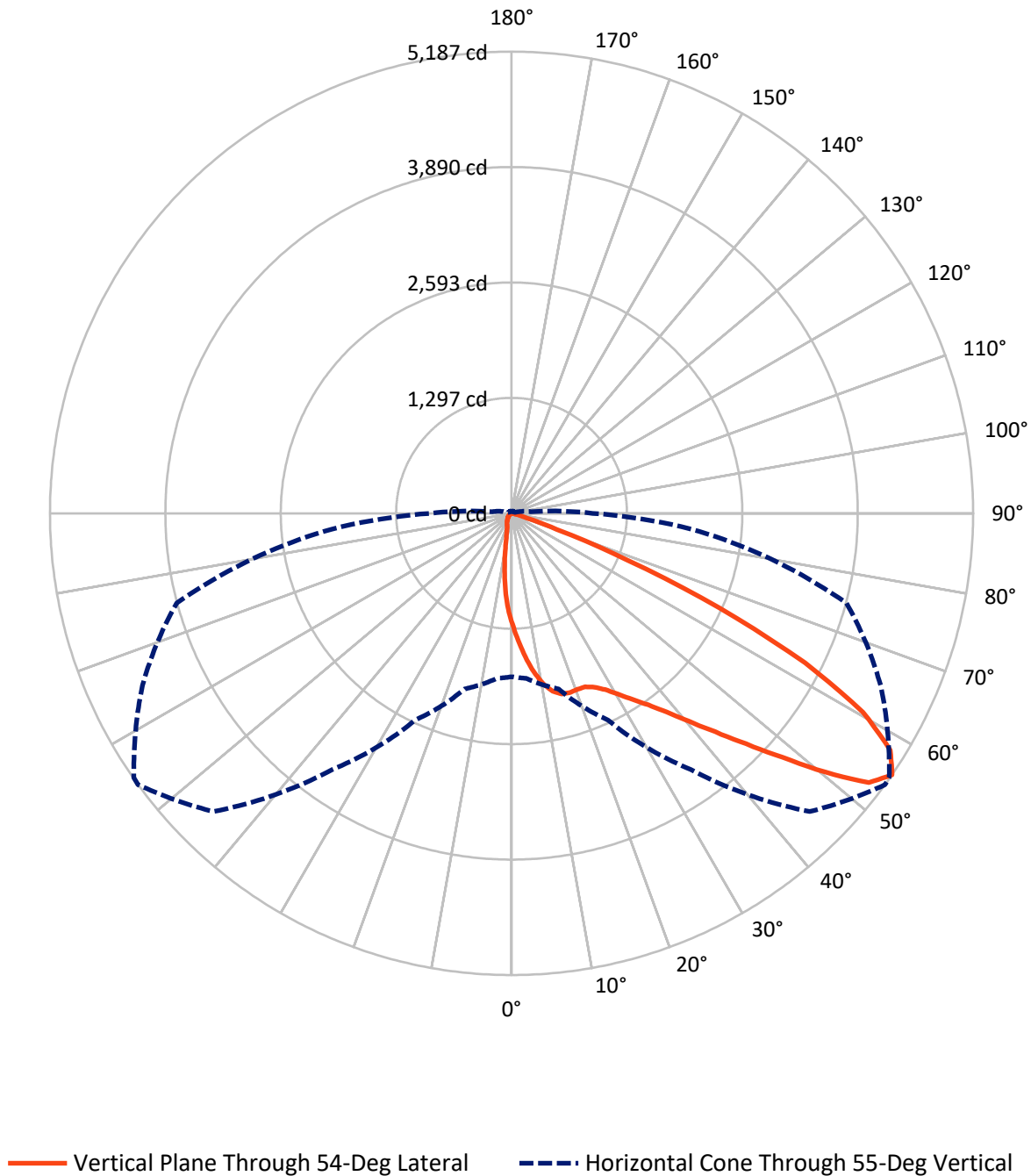
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

REPORT NUMBER: P324735
CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324735

CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.5	0.0	277.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5284.5	0.0	5284.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	5562.0	0.0	5562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	2.1
10°-20°	314.6	5.7
20°-30°	537.1	9.7
30°-40°	862.0	15.5
40°-50°	1377.5	24.8
50°-60°	1476.0	26.5
60°-70°	757.8	13.6
70°-80°	114.8	2.1
80°-90°	7.5	0.1
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°	5562.0	100.0
0°-180°	5562.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324735

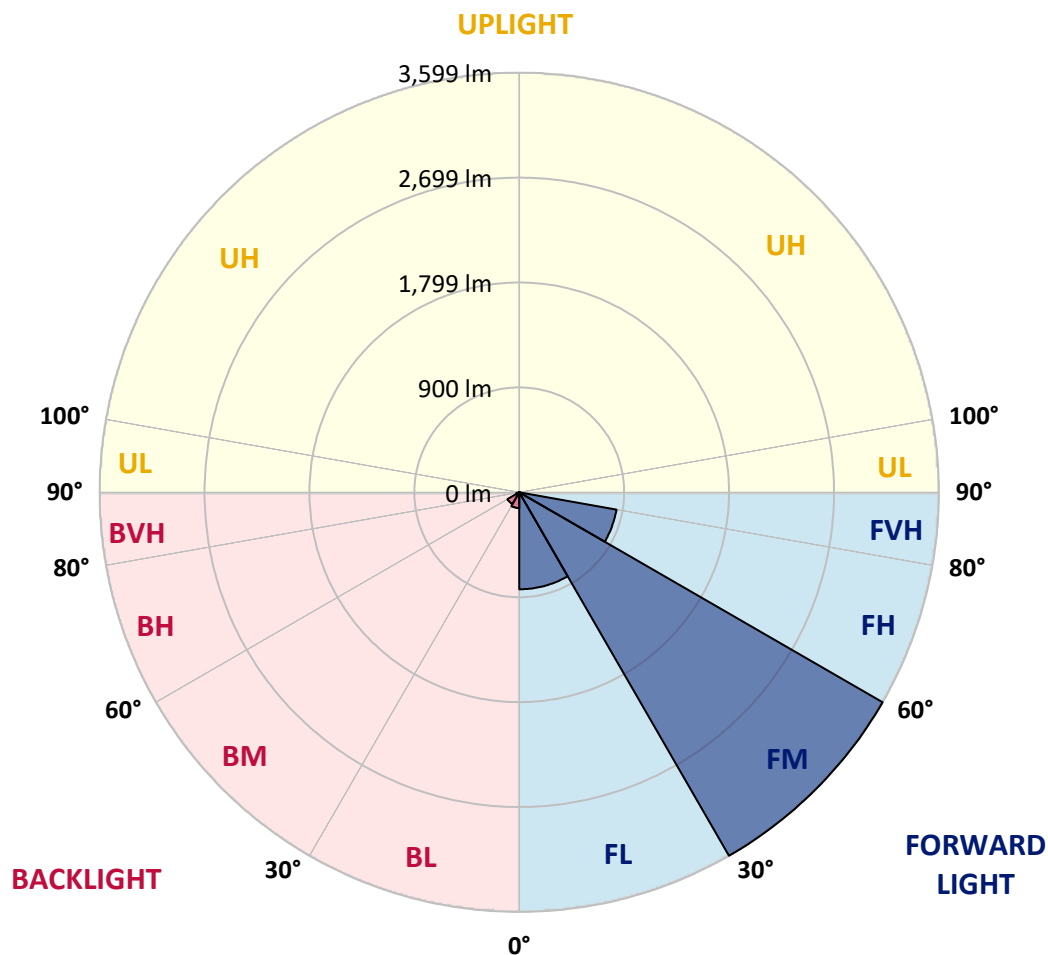
CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.4	14.9			
FM	(30°-60°)	3598.9	64.7			
FH	(60°-80°)	847.0	15.2			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	135.0	2.4	B1/500		
BM	(30°-60°)	116.6	2.1	B0/220		
BH	(60°-80°)	25.6	0.5	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type II Short



REPORT NUMBER: P324735

CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1563.2	1539.9	1540.6	1530.1	1491.4	1461.1	1429.7	1422.2	1373.2	1321.8	1272.3
5°	1833.4	1816.4	1812.3	1791.9	1738.1	1681.1	1620.1	1606.0	1510.1	1404.9	1301.4
7.5°	1972.3	1972.5	1969.1	1961.7	1928.1	1872.8	1798.4	1783.5	1653.0	1495.2	1331.7
10°	1931.9	1941.0	1959.8	1984.5	2010.2	2003.2	1947.3	1933.8	1792.1	1590.8	1365.3
12.5°	1837.8	1839.0	1859.9	1900.4	1974.4	2050.3	2051.3	2046.7	1924.9	1690.8	1402.3
15°	1790.9	1795.5	1803.2	1829.3	1899.5	2021.0	2108.0	2114.5	2046.7	1796.9	1441.7
17.5°	1821.7	1828.1	1821.7	1824.8	1865.4	1974.7	2117.8	2134.4	2153.1	1901.9	1478.9
20°	1905.0	1911.0	1899.5	1886.8	1894.7	1961.2	2110.9	2133.2	2236.5	1995.1	1510.1
22.5°	2017.4	2019.8	2002.3	1981.4	1975.6	2006.9	2116.6	2139.7	2303.3	2079.4	1529.8
25°	2141.1	2143.3	2121.4	2097.4	2083.7	2096.4	2163.9	2181.2	2362.1	2159.9	1541.1
27.5°	2275.9	2277.8	2250.4	2220.9	2205.0	2205.5	2242.0	2260.5	2424.8	2251.6	1550.2
30°	2418.3	2417.3	2392.1	2351.1	2330.9	2330.4	2354.4	2373.2	2515.6	2369.3	1562.7
32.5°	2578.3	2576.4	2540.6	2489.6	2466.8	2470.2	2491.6	2502.4	2628.2	2494.7	1585.1
35°	2788.9	2783.4	2729.4	2666.2	2624.2	2623.0	2641.0	2649.6	2771.9	2646.5	1622.3
37.5°	3062.3	3057.2	2984.0	2892.2	2833.1	2811.0	2832.4	2843.5	2976.8	2841.3	1682.1
40°	3331.8	3326.7	3283.3	3199.2	3108.2	3055.1	3071.9	3083.7	3232.6	3077.7	1757.5
42.5°	3517.7	3522.0	3537.1	3544.1	3458.8	3347.4	3355.1	3367.3	3501.4	3330.3	1843.8
45°	3566.7	3576.1	3661.6	3829.5	3861.4	3774.5	3694.0	3700.7	3774.5	3583.0	1930.0
47.5°	3419.5	3436.7	3601.8	3914.0	4184.5	4246.0	4093.7	4084.8	4036.5	3787.4	1991.2
50°	3084.9	3100.7	3314.5	3776.4	4282.5	4696.1	4572.6	4546.5	4266.4	3909.7	2012.9
52.5°	2600.6	2619.8	2793.5	3343.1	4097.8	4896.9	5026.1	5004.3	4435.0	3919.3	2016.5
55°	1836.6	1859.9	2043.6	2562.2	3512.4	4737.2	5186.8	5180.3	4575.0	3893.8	2024.1
57.5°	1032.1	1048.9	1247.1	1642.5	2572.5	4126.1	5018.9	5061.9	4659.6	3849.6	2035.7
60°	458.3	462.9	565.4	817.6	1506.0	3153.3	4538.3	4610.8	4587.1	3790.6	2055.1
62.5°	254.1	250.3	250.3	339.9	654.5	1952.1	3700.7	3820.6	4277.4	3720.7	2056.1
65°	199.1	195.5	185.2	186.6	249.3	866.4	2562.7	2775.7	3689.4	3515.8	1986.9
67.5°	168.9	165.7	155.4	151.3	154.9	285.8	1408.0	1629.3	2799.5	2983.3	1721.0
70°	142.7	140.5	135.2	130.2	121.1	141.2	538.8	689.1	1725.1	1984.5	1174.8
72.5°	114.8	113.9	115.8	111.5	100.4	94.2	184.2	223.1	774.9	885.6	484.0
75°	99.0	98.5	99.4	95.1	82.6	65.6	93.7	102.3	218.6	216.7	98.0
77.5°	64.4	65.1	82.4	80.5	71.1	43.7	48.5	52.4	66.3	49.7	29.8
80°	41.1	40.6	41.8	66.8	63.9	33.4	24.3	25.5	31.9	24.5	14.4
82.5°	25.0	24.5	27.4	31.2	32.2	23.3	14.9	15.1	19.9	15.9	7.7
85°	2.2	2.9	16.6	15.4	11.0	7.2	7.2	7.7	10.6	9.4	4.3
87.5°	0.0	0.0	2.9	4.3	2.4	2.6	2.6	2.9	4.1	4.1	2.2
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: P324735

CATALOG NUMBER: GAN-SA1D-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1246.6	1221.6	1171.2	1122.7	1081.6	1042.0	996.8	952.1	931.2	922.8	914.2
5°	1248.8	1197.4	1093.4	988.7	880.1	782.3	699.0	613.5	570.7	552.0	543.3
7.5°	1251.7	1173.4	1005.2	829.4	654.5	521.9	406.2	331.7	299.5	294.5	282.0
10°	1252.2	1144.3	902.9	653.6	438.8	314.7	242.1	203.7	189.5	187.1	183.0
12.5°	1253.1	1110.0	789.3	484.0	292.6	210.4	175.1	162.4	158.5	158.3	158.3
15°	1256.0	1073.9	671.4	348.8	210.2	166.7	153.7	148.7	147.2	148.0	147.7
17.5°	1256.0	1031.4	555.6	259.9	169.8	149.9	142.7	139.3	138.8	139.6	139.8
20°	1246.9	979.8	449.4	202.2	150.6	139.1	132.6	129.5	128.3	128.7	129.0
22.5°	1225.0	916.4	362.9	167.4	137.9	129.2	122.3	117.5	115.5	115.8	115.8
25°	1190.9	841.2	283.9	144.8	127.5	118.7	110.5	105.0	103.8	103.5	104.0
27.5°	1147.2	758.1	226.0	127.5	115.3	106.9	98.7	94.2	93.2	93.4	93.7
30°	1104.2	671.8	178.2	112.9	101.6	93.7	87.4	85.3	85.3	86.0	86.2
32.5°	1064.8	589.0	141.0	100.2	89.4	82.1	78.5	78.3	79.5	80.0	80.2
35°	1030.9	512.3	116.7	90.3	79.7	73.5	72.3	73.3	74.7	75.7	75.9
37.5°	1006.9	443.9	102.1	82.1	72.3	67.3	67.0	68.9	70.9	73.0	73.5
40°	996.8	386.0	92.0	74.9	66.3	62.5	61.7	64.4	68.0	71.1	71.6
42.5°	988.4	338.7	83.3	68.0	61.5	56.0	55.7	59.1	63.4	66.5	67.3
45°	981.2	300.7	75.4	60.5	55.2	48.0	48.8	53.1	56.4	59.8	60.5
47.5°	966.3	269.5	66.8	52.6	45.6	41.1	42.5	46.4	49.0	54.0	54.8
50°	939.7	244.0	57.9	43.0	37.2	35.5	37.7	40.4	43.7	48.0	48.5
52.5°	921.6	224.8	50.2	36.0	30.7	31.2	33.4	34.3	36.3	38.0	37.5
55°	911.3	214.3	44.0	31.2	26.2	27.6	28.1	26.9	25.9	24.3	23.5
57.5°	910.1	204.6	39.2	27.1	23.1	23.8	22.1	18.0	14.7	12.7	12.3
60°	908.2	192.9	35.3	22.8	20.4	19.5	15.9	9.8	7.0	6.5	6.5
62.5°	887.3	174.6	32.4	19.2	17.3	14.7	9.1	4.6	3.8	4.1	4.1
65°	820.8	149.2	29.5	15.6	13.7	10.6	4.6	2.6	1.4	1.7	1.7
67.5°	697.8	118.9	26.4	12.0	10.3	6.7	2.6	1.2	0.0	0.0	0.0
70°	467.2	73.7	22.3	8.4	6.7	4.1	1.9	0.2	0.0	0.0	0.0
72.5°	179.2	39.9	18.0	5.0	4.3	2.9	1.2	0.0	0.0	0.0	0.0
75°	40.4	26.2	12.5	3.6	3.1	1.9	0.5	0.0	0.0	0.0	0.0
77.5°	15.4	19.0	7.2	2.4	2.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	7.4	11.3	3.4	1.4	1.2	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	4.3	1.4	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	2.2	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.7	0.2	0.2	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)