

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: P322345

Luminaire Tested: **GAN-SA1A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322345
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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

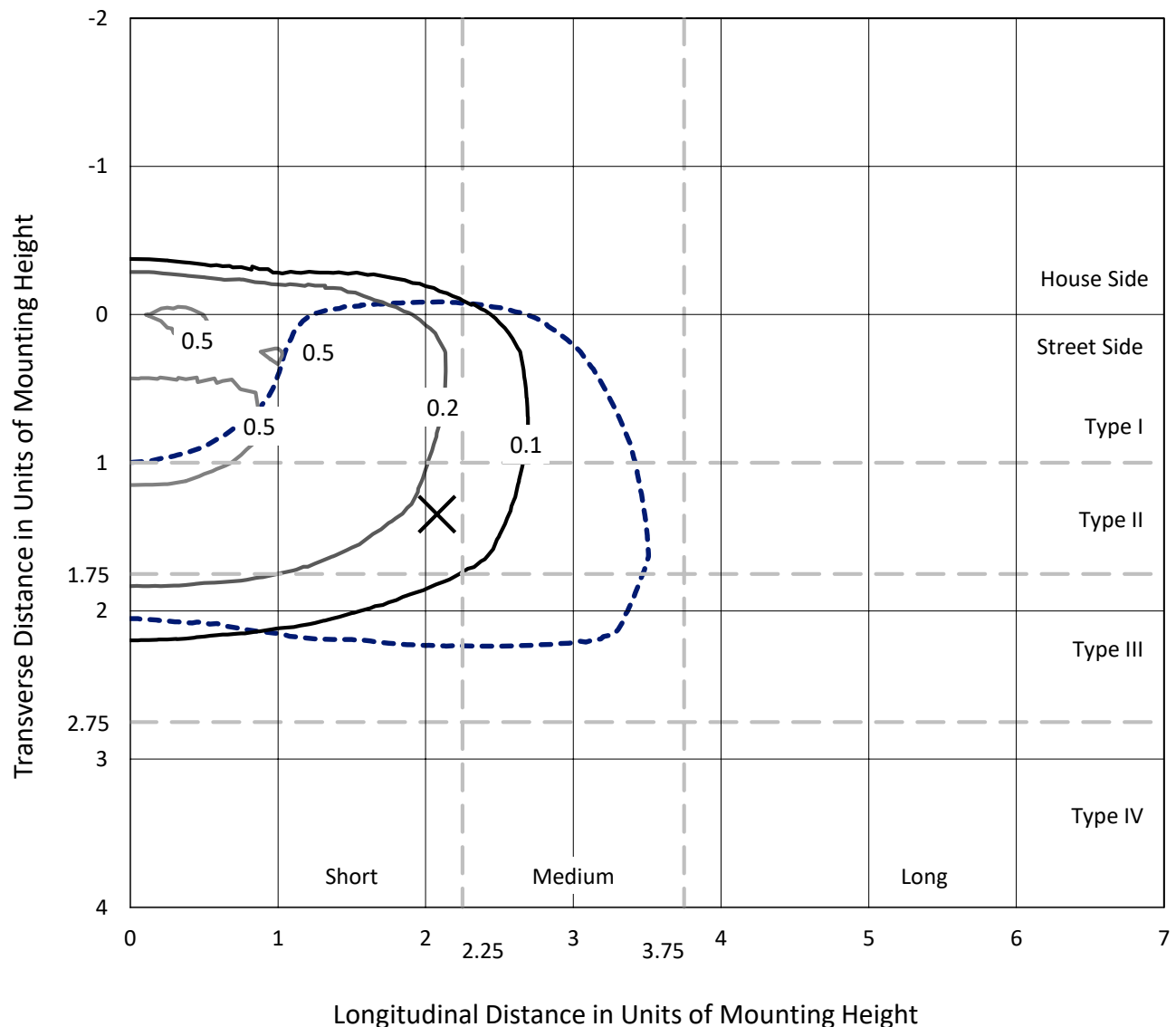


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Iso-Footcandle Lines of Horizontal Illumination

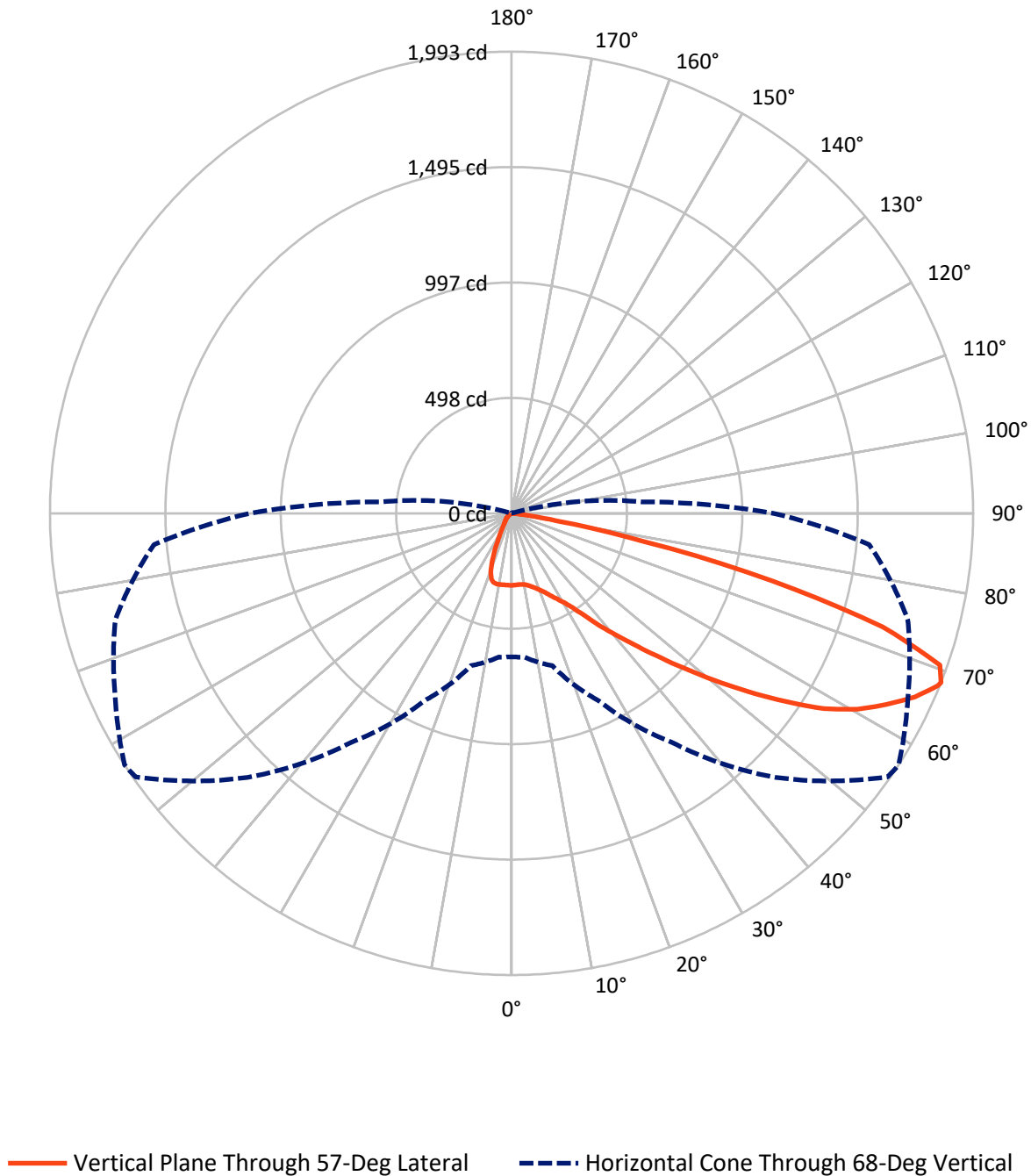
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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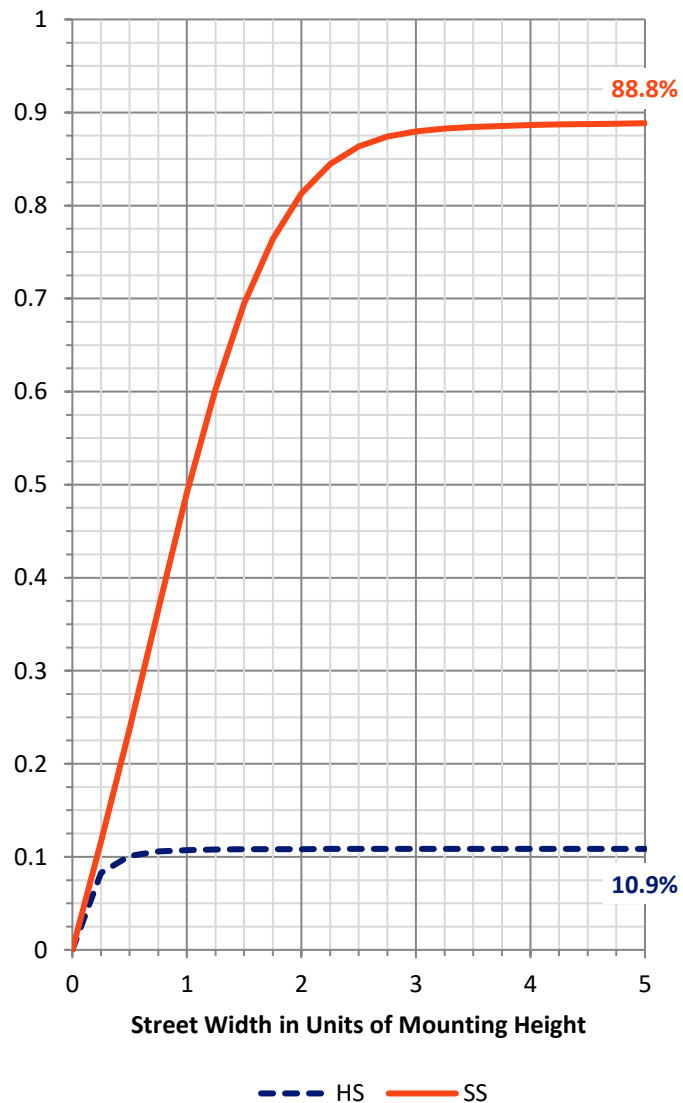
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	286.6	0.0	286.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2327.3	0.0	2327.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	2614.0	0.0	2614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.1
10°-20°	80.6	3.1
20°-30°	139.0	5.3
30°-40°	239.8	9.2
40°-50°	410.2	15.7
50°-60°	656.4	25.1
60°-70°	758.3	29.0
70°-80°	289.8	11.1
80°-90°	10.9	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°	2614.0	100.0
0°-180°	2614.0	100.0

Coefficient of Utilization



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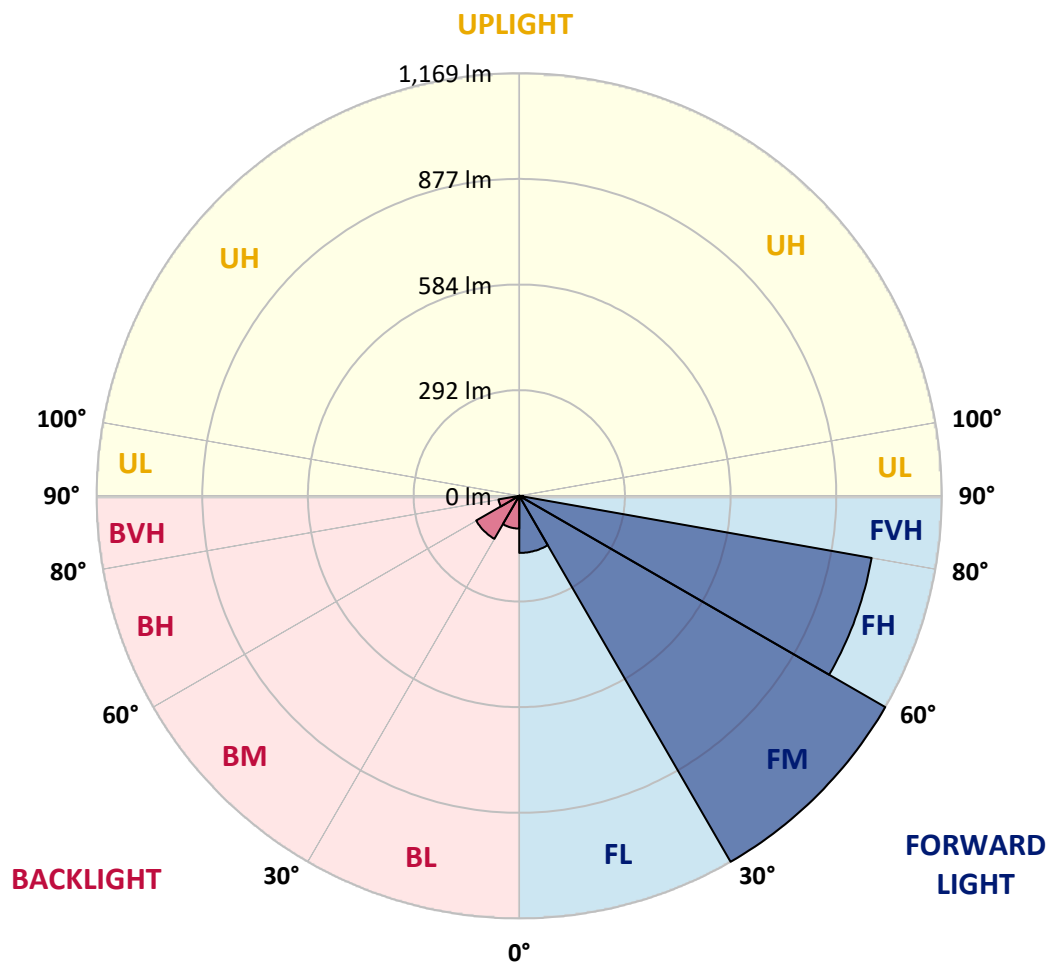
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.0	6.0			
FM	(30°-60°)	1169.0	44.7			
FH	(60°-80°)	989.7	37.9			G1/1800
FVH	(80°-90°)	10.7	0.4			G1/100
BL	(0°-30°)	90.6	3.5	B0/110		
BM	(30°-60°)	137.5	5.3	B0/220		
BH	(60°-80°)	58.4	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6
2.5°	303.3	304.7	305.7	306.3	307.0	308.6	309.1	309.9	310.2	310.2	311.1
5°	291.3	292.8	294.9	296.6	300.1	304.6	307.8	309.0	311.2	313.2	314.3
7.5°	280.2	281.9	284.4	288.5	294.4	301.6	308.3	310.0	314.3	318.5	320.6
10°	273.0	274.4	277.6	283.4	291.2	301.2	310.6	312.7	320.1	327.2	331.1
12.5°	270.6	271.8	275.1	281.7	291.3	303.1	316.1	319.1	330.0	340.3	345.8
15°	274.1	274.4	278.0	284.2	293.7	307.6	325.1	328.8	342.5	355.9	362.8
17.5°	288.0	286.9	288.7	291.5	299.0	313.7	334.6	340.2	358.4	374.1	380.7
20°	322.6	322.6	318.4	311.0	311.1	323.1	347.4	353.7	376.1	394.3	400.2
22.5°	381.8	380.7	372.3	354.1	337.4	339.3	363.1	371.3	397.4	416.8	418.8
25°	453.0	451.6	438.7	413.1	384.2	365.5	384.4	393.8	422.7	439.9	435.8
27.5°	528.4	527.3	514.4	482.7	441.5	407.3	409.7	418.6	448.6	465.5	452.5
30°	601.4	601.8	589.1	556.5	509.9	460.5	441.9	447.1	473.6	490.8	472.3
32.5°	670.9	671.4	660.4	623.9	580.4	522.5	486.4	485.0	502.8	519.7	498.5
35°	732.8	734.1	726.5	698.2	652.1	591.4	544.1	540.9	544.2	563.4	538.7
37.5°	792.5	793.3	787.6	763.7	725.2	667.2	617.0	612.4	605.3	620.0	591.7
40°	857.9	856.1	849.5	827.9	794.8	750.9	695.4	687.5	675.0	688.1	661.4
42.5°	918.7	916.6	917.7	893.3	865.3	836.9	786.7	773.1	765.8	780.9	746.9
45°	994.7	993.6	997.3	976.1	953.5	932.8	891.4	876.6	873.4	891.0	850.4
47.5°	1069.8	1072.5	1084.0	1075.0	1065.8	1047.7	1002.3	995.6	997.6	1019.0	959.5
50°	1132.3	1135.5	1167.1	1177.4	1190.7	1180.0	1134.5	1130.5	1138.3	1157.5	1076.9
52.5°	1177.6	1184.1	1223.3	1271.1	1319.3	1326.5	1281.1	1277.4	1287.9	1290.9	1167.7
55°	1209.0	1214.8	1259.1	1346.6	1444.8	1475.7	1447.5	1433.2	1431.2	1401.9	1263.1
57.5°	1214.5	1213.9	1277.7	1395.5	1543.2	1622.9	1605.1	1591.0	1550.5	1504.5	1372.5
60°	1183.1	1186.7	1260.7	1412.4	1605.0	1734.3	1735.6	1717.3	1654.2	1604.2	1478.5
62.5°	1086.5	1101.0	1175.8	1368.0	1604.2	1779.1	1831.3	1817.3	1741.8	1685.9	1586.1
65°	929.7	934.9	1006.2	1216.0	1495.8	1760.3	1917.4	1912.2	1820.8	1765.3	1641.3
67.5°	678.9	667.7	742.6	957.5	1266.4	1650.8	1979.2	1985.8	1881.7	1781.6	1582.5
68°	619.6	623.0	681.3	893.6	1206.4	1612.1	1983.3	1993.3	1887.8	1771.0	1550.3
70°	369.3	375.8	427.8	615.3	917.7	1393.2	1939.3	1962.2	1851.7	1661.3	1341.0
72.5°	94.3	102.0	151.2	275.4	524.2	981.6	1637.1	1675.8	1607.7	1347.8	905.3
75°	38.8	40.8	54.0	90.7	195.3	442.2	1079.0	1161.9	1114.5	806.9	409.1
77.5°	26.8	28.2	34.7	50.3	84.5	149.9	529.0	588.8	530.5	275.4	89.2
80°	19.3	20.4	24.8	33.5	48.6	53.5	172.4	199.4	158.3	60.4	22.1
82.5°	11.5	12.4	18.5	23.9	29.5	25.6	42.9	48.7	45.9	30.0	9.9
85°	5.7	6.7	12.5	17.1	15.9	10.8	13.1	14.6	18.0	18.3	5.3
87.5°	0.4	0.7	7.3	10.3	4.4	2.5	3.8	4.7	6.4	9.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6
2.5°	311.5	311.6	310.7	310.4	310.6	309.1	308.5	308.8	308.8	309.1	308.5
5°	314.6	314.6	313.1	311.1	310.0	307.2	305.3	304.8	304.4	304.2	303.7
7.5°	321.2	320.5	317.9	313.6	309.9	303.7	299.0	296.5	295.3	294.8	294.4
10°	332.0	330.6	326.3	318.3	309.7	298.7	288.5	281.2	275.1	272.7	271.2
12.5°	346.5	344.5	337.2	323.8	308.9	288.6	266.4	245.0	225.1	216.9	212.8
15°	363.1	360.3	348.8	328.5	303.8	265.7	217.4	180.0	152.4	142.0	137.6
17.5°	380.1	376.4	358.9	331.5	288.6	218.4	152.5	115.2	96.8	91.8	90.1
20°	397.1	391.7	367.7	329.3	254.2	157.5	100.6	84.2	78.9	77.4	76.9
22.5°	413.3	404.9	375.6	320.6	201.3	105.7	79.6	74.4	72.7	71.8	71.6
25°	427.4	415.7	382.5	293.9	142.5	79.8	71.7	70.0	67.7	66.1	66.3
27.5°	440.6	426.4	386.8	249.9	95.1	68.2	66.4	64.0	59.9	57.6	57.6
30°	456.6	440.8	389.8	192.3	70.0	60.3	58.8	55.3	49.7	46.6	46.6
32.5°	480.6	462.5	387.9	135.0	58.0	53.0	49.6	44.6	38.6	35.6	35.5
35°	517.3	496.1	373.8	88.5	51.2	46.1	40.5	34.5	29.2	26.7	26.6
37.5°	566.7	541.1	342.1	63.3	45.9	39.7	33.0	26.3	22.4	20.8	20.6
40°	630.9	593.4	296.9	51.3	40.9	33.5	25.5	20.4	17.7	16.4	16.6
42.5°	707.9	649.4	242.6	44.2	36.1	27.6	19.9	16.1	14.3	13.5	13.2
45°	793.4	704.7	185.8	39.4	31.3	22.2	15.6	12.7	11.4	10.9	10.9
47.5°	887.5	758.4	136.0	35.2	26.1	17.2	12.5	10.4	9.3	8.9	8.8
50°	972.9	795.8	98.0	30.8	21.4	13.6	10.1	8.7	7.9	7.4	7.4
52.5°	1044.1	807.5	72.2	26.0	17.3	10.9	8.4	7.4	6.7	6.3	6.3
55°	1106.7	802.7	53.6	21.4	14.0	8.9	7.2	6.3	5.7	5.3	5.3
57.5°	1166.8	787.1	40.0	17.4	11.2	7.2	6.1	5.3	4.7	4.4	4.4
60°	1215.9	761.1	29.8	14.1	9.0	5.8	5.1	4.3	3.8	3.5	3.5
62.5°	1255.7	732.5	21.9	11.6	7.2	4.6	4.0	3.6	2.8	2.5	2.5
65°	1255.9	684.9	16.4	9.6	5.6	3.6	3.0	2.8	1.9	1.5	1.4
67.5°	1165.1	590.4	12.6	8.3	4.3	2.7	2.2	2.3	1.0	0.6	0.5
68°	1132.1	566.5	11.9	8.2	4.1	2.6	2.1	2.3	0.9	0.5	0.4
70°	954.5	450.7	9.5	7.9	3.6	2.0	1.7	2.3	0.7	0.4	0.2
72.5°	610.5	261.5	7.0	6.3	2.7	1.5	1.1	2.1	0.7	0.2	0.1
75°	259.8	81.1	4.8	4.4	1.6	1.1	0.7	1.4	0.5	0.1	0.0
77.5°	54.8	18.3	2.8	2.7	1.1	0.7	0.5	0.4	0.1	0.0	0.0
80°	14.1	5.3	1.5	1.4	0.6	0.4	0.2	0.0	0.0	0.0	0.0
82.5°	4.4	2.1	0.9	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	0.1	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)