

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: P323785

Luminaire Tested: **GAN-SA1A-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3606 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

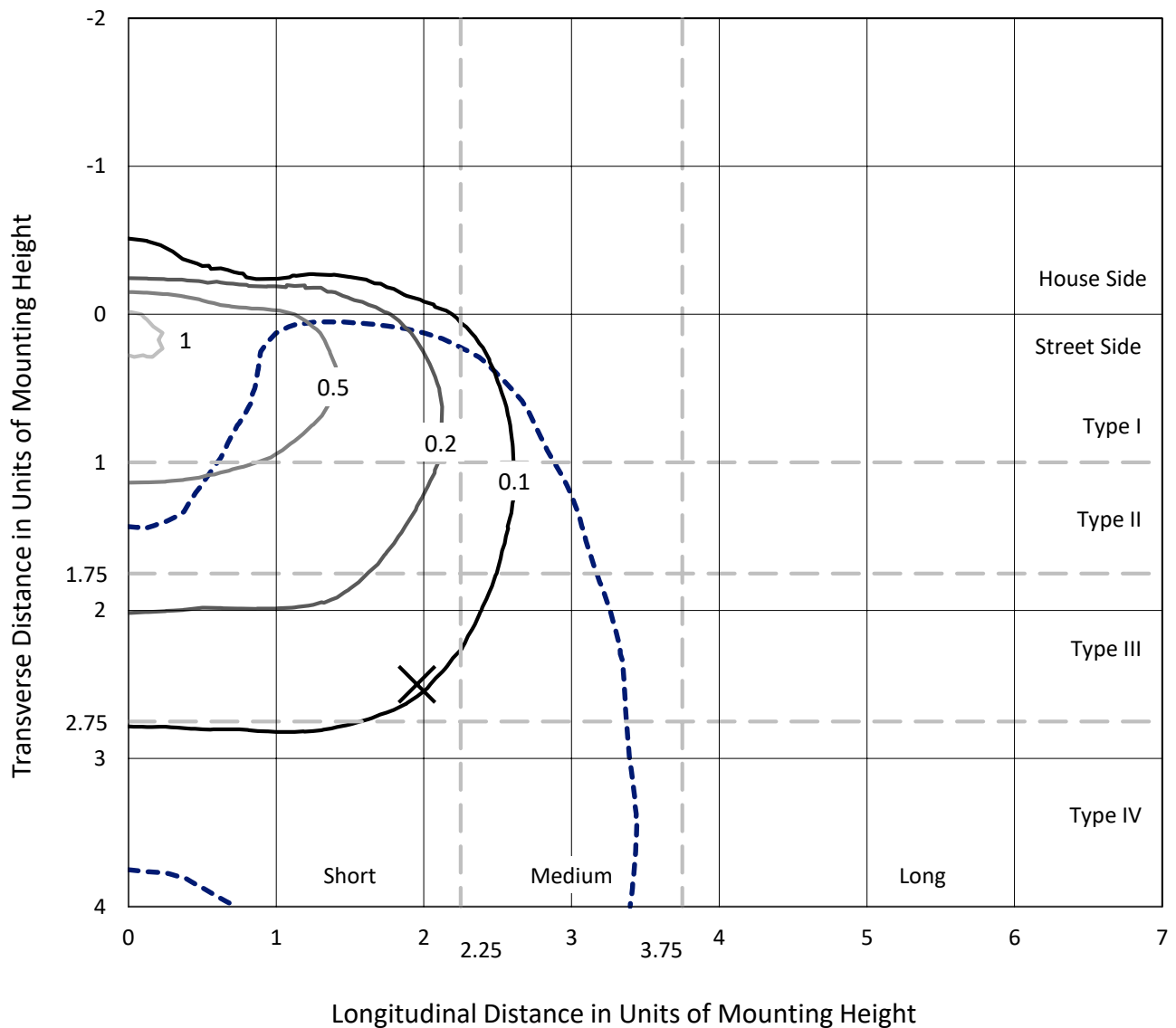
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

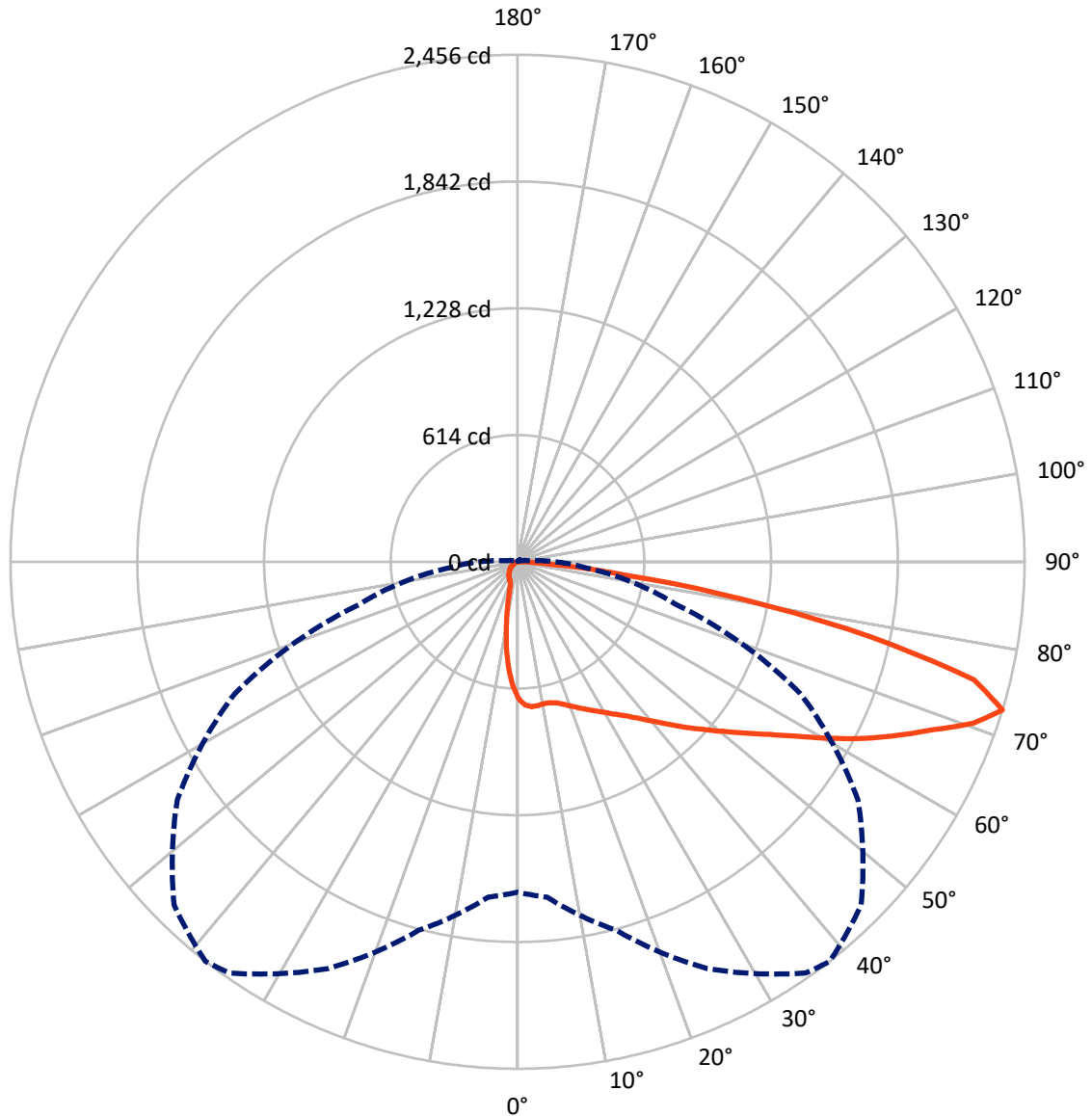
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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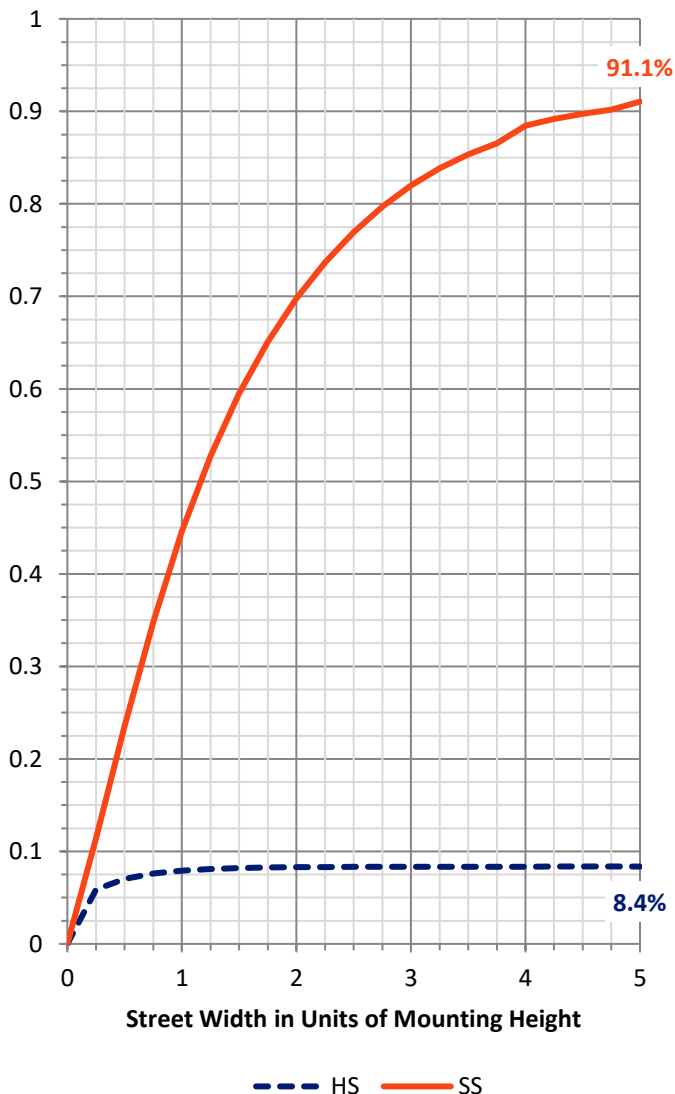
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	303.4	0.0	303.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3302.5	0.0	3302.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	3606.0	0.0	3606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	1.6
10°-20°	138.2	3.8
20°-30°	219.8	6.1
30°-40°	330.4	9.2
40°-50°	504.1	14.0
50°-60°	712.4	19.8
60°-70°	893.6	24.8
70°-80°	668.2	18.5
80°-90°	82.8	2.3
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°	3606.0	100.0
0°-180°	3606.0	100.0

**Coefficient of Utilization**

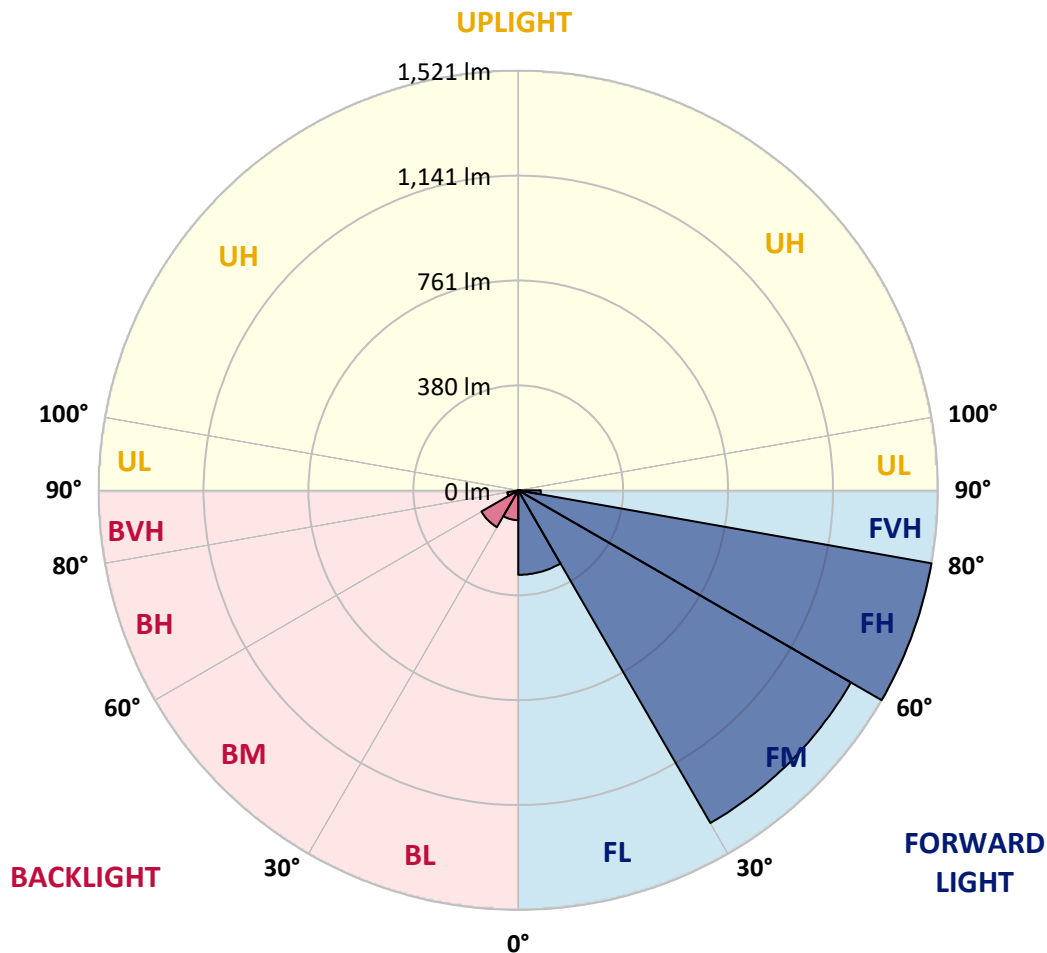


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.4	8.5			
FM (30°-60°)	1392.8	38.6			
FH (60°-80°)	1521.2	42.2			G1/1800
FVH (80°-90°)	82.1	2.3			G1/100
BL (0°-30°)	108.1	3.0	B0/110		
BM (30°-60°)	154.1	4.3	B0/220		
BH (60°-80°)	40.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1
2.5°	703.9	704.0	702.4	699.7	696.2	694.4	691.4	686.6	681.6	672.4	662.5
5°	718.2	718.2	716.1	712.6	707.0	705.4	699.7	692.0	681.6	666.7	650.1
7.5°	716.7	717.0	714.2	710.5	704.9	703.4	696.5	688.0	675.0	657.0	635.7
10°	709.0	709.7	707.5	705.7	700.6	698.9	692.5	683.9	670.9	651.7	627.3
12.5°	701.0	701.8	702.5	704.2	701.0	700.4	695.3	688.1	675.7	655.8	628.2
15°	695.9	697.4	702.8	709.3	710.0	709.4	706.1	699.4	686.8	666.1	634.7
17.5°	695.9	698.3	709.6	721.8	726.2	726.6	723.8	714.3	699.4	677.2	640.7
20°	701.8	705.1	722.6	740.0	747.1	747.1	741.6	728.4	710.9	687.2	644.7
22.5°	716.7	721.1	743.1	763.2	770.8	769.2	761.7	742.5	722.9	698.6	649.8
25°	746.2	749.5	772.5	792.7	797.3	793.6	784.1	759.6	738.2	714.0	659.1
27.5°	784.3	784.7	808.4	825.5	822.6	820.1	808.2	781.0	760.2	736.1	675.1
30°	826.1	826.1	846.9	859.9	851.2	849.1	837.3	806.9	788.3	766.0	697.9
32.5°	866.5	868.3	885.2	893.5	883.7	881.6	870.1	839.7	825.8	811.7	733.4
35°	905.6	906.9	923.0	927.5	918.2	918.8	910.5	884.8	879.5	877.7	786.8
37.5°	943.5	943.8	960.1	962.9	958.3	963.4	964.1	941.4	951.1	965.6	862.2
40°	978.1	978.4	994.5	1001.9	1009.8	1016.4	1022.3	1010.1	1042.3	1076.0	951.9
42.5°	1005.8	1008.9	1029.4	1043.4	1064.3	1076.9	1092.8	1092.2	1150.9	1201.5	1060.3
45°	1030.2	1035.6	1064.2	1088.6	1124.5	1144.6	1169.5	1188.9	1273.1	1341.2	1170.1
47.5°	1062.4	1067.5	1100.1	1140.1	1188.0	1214.4	1255.6	1297.7	1407.4	1478.4	1277.3
50°	1107.8	1105.5	1137.7	1195.1	1256.6	1291.2	1349.9	1413.0	1540.7	1597.9	1340.3
52.5°	1156.1	1155.2	1179.1	1254.8	1337.5	1377.9	1455.5	1532.2	1668.2	1680.3	1369.2
55°	1216.0	1209.6	1229.7	1323.0	1433.5	1476.9	1568.3	1650.2	1769.7	1726.7	1383.8
57.5°	1278.8	1268.2	1287.3	1398.9	1541.8	1593.1	1693.2	1765.2	1837.2	1758.5	1383.6
60°	1343.6	1331.1	1353.8	1493.8	1676.2	1735.7	1828.6	1842.9	1900.3	1774.5	1373.4
62.5°	1397.8	1390.4	1424.2	1595.4	1826.5	1884.9	1930.8	1913.6	1953.5	1786.9	1349.6
65°	1455.2	1455.7	1510.3	1713.8	1986.1	2025.5	2029.4	2005.3	1997.9	1784.4	1269.1
67.5°	1532.8	1540.0	1631.2	1874.7	2141.4	2171.8	2171.5	2104.6	2030.4	1683.1	1090.4
70°	1614.8	1631.8	1770.4	2058.7	2310.9	2341.8	2325.9	2167.8	1911.8	1361.0	771.7
72.5°	1601.1	1630.4	1847.9	2174.8	2432.7	2456.2	2353.0	2012.5	1511.1	791.0	328.6
75°	1235.2	1269.2	1694.4	2059.8	2304.9	2283.8	2021.7	1566.0	825.8	220.7	74.0
77.5°	652.5	670.6	1119.3	1569.2	1797.3	1753.1	1424.2	868.8	251.7	54.7	33.2
80°	341.7	345.9	487.8	890.3	1109.3	1109.6	844.0	381.6	103.8	28.0	22.3
82.5°	183.0	186.6	257.7	411.4	581.2	526.9	323.2	210.0	60.4	15.9	21.4
85°	44.0	44.8	146.2	187.9	228.5	163.2	96.0	176.3	16.3	9.3	17.4
87.5°	16.9	17.2	54.2	81.3	58.3	37.7	44.9	65.7	2.1	3.6	2.7
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°	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1	663.1
2.5°	656.5	652.6	643.1	630.9	620.2	612.4	600.7	593.0	588.0	587.8	585.9
5°	639.9	632.0	611.3	586.8	564.4	544.4	520.7	502.0	488.1	485.8	481.0
7.5°	622.1	609.1	577.3	539.0	501.5	463.5	419.3	391.9	368.4	357.2	356.0
10°	611.2	592.9	547.8	492.4	433.7	371.9	314.0	274.1	245.2	236.9	230.8
12.5°	608.9	584.8	525.1	448.7	364.8	283.0	219.1	176.6	153.5	146.2	144.2
15°	611.2	581.1	505.9	405.4	295.0	200.8	147.1	122.4	113.7	111.6	111.4
17.5°	612.5	576.6	484.2	357.3	227.3	143.5	112.6	105.4	104.1	103.9	104.2
20°	612.4	569.7	458.3	303.7	169.1	112.8	101.8	100.3	100.0	100.2	100.0
22.5°	611.3	561.6	429.8	248.4	127.7	100.8	97.2	96.3	96.1	96.1	96.1
25°	613.3	555.2	398.5	195.6	105.3	95.2	93.0	92.3	92.1	92.1	91.8
27.5°	620.3	551.6	364.2	150.5	95.1	90.3	88.5	88.4	87.9	87.8	88.1
30°	631.7	551.6	326.6	117.1	89.0	85.2	83.9	83.6	83.4	83.3	83.4
32.5°	651.7	555.8	285.6	97.3	83.1	79.5	78.6	79.1	78.6	78.6	78.6
35°	688.0	568.3	242.6	84.9	77.0	74.0	73.1	73.7	73.4	73.4	73.2
37.5°	740.9	591.7	199.3	77.4	71.6	68.4	67.2	68.1	67.8	67.8	67.7
40°	805.3	625.7	158.1	71.7	66.3	63.0	62.0	62.4	61.7	61.7	62.0
42.5°	884.8	668.8	122.2	66.2	61.1	58.0	57.4	56.9	55.6	54.8	55.0
45°	973.1	713.7	95.2	60.8	56.2	53.6	52.7	51.5	49.3	47.8	47.9
47.5°	1052.1	748.3	77.4	55.6	51.7	49.7	48.4	46.1	42.8	41.0	41.2
50°	1093.5	753.6	65.9	50.3	47.5	45.5	43.6	40.1	36.2	34.3	34.1
52.5°	1104.2	729.0	57.4	45.5	43.3	41.0	38.5	33.8	29.5	27.4	27.1
55°	1108.1	691.6	49.7	41.0	38.8	36.2	32.9	27.7	23.7	21.6	21.4
57.5°	1095.2	635.7	43.7	37.0	34.3	31.1	27.1	22.2	18.3	16.6	16.6
60°	1066.6	560.1	39.1	32.6	29.7	26.1	21.9	17.2	13.6	12.3	12.3
62.5°	1009.5	462.2	34.7	28.2	25.3	21.6	17.7	13.0	9.6	8.8	9.0
65°	901.8	350.6	30.4	24.1	21.6	17.8	13.8	9.3	6.4	6.4	6.7
67.5°	735.5	243.5	25.9	20.5	18.6	14.5	10.5	6.4	4.5	5.1	5.7
70°	486.9	136.6	22.2	16.9	15.9	11.5	7.8	4.3	3.6	4.8	5.8
72.5°	183.8	53.2	18.6	13.6	13.8	8.8	5.5	3.3	3.3	5.2	6.9
75°	51.2	26.1	13.3	10.0	10.8	6.4	4.0	2.8	3.1	6.0	8.1
77.5°	30.1	19.2	8.7	5.8	7.3	4.5	2.7	2.2	2.7	5.1	7.8
80°	24.3	10.2	5.1	3.0	4.0	2.5	1.8	1.3	0.7	1.9	4.0
82.5°	24.3	6.1	2.4	2.1	2.1	1.3	0.9	0.6	0.1	0.0	1.0
85°	16.3	2.5	1.5	1.3	1.0	0.4	0.3	0.1	0.0	0.0	0.0
87.5°	2.7	1.0	0.6	0.3	0.1	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)