

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: P192949

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH 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: 4892.6 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

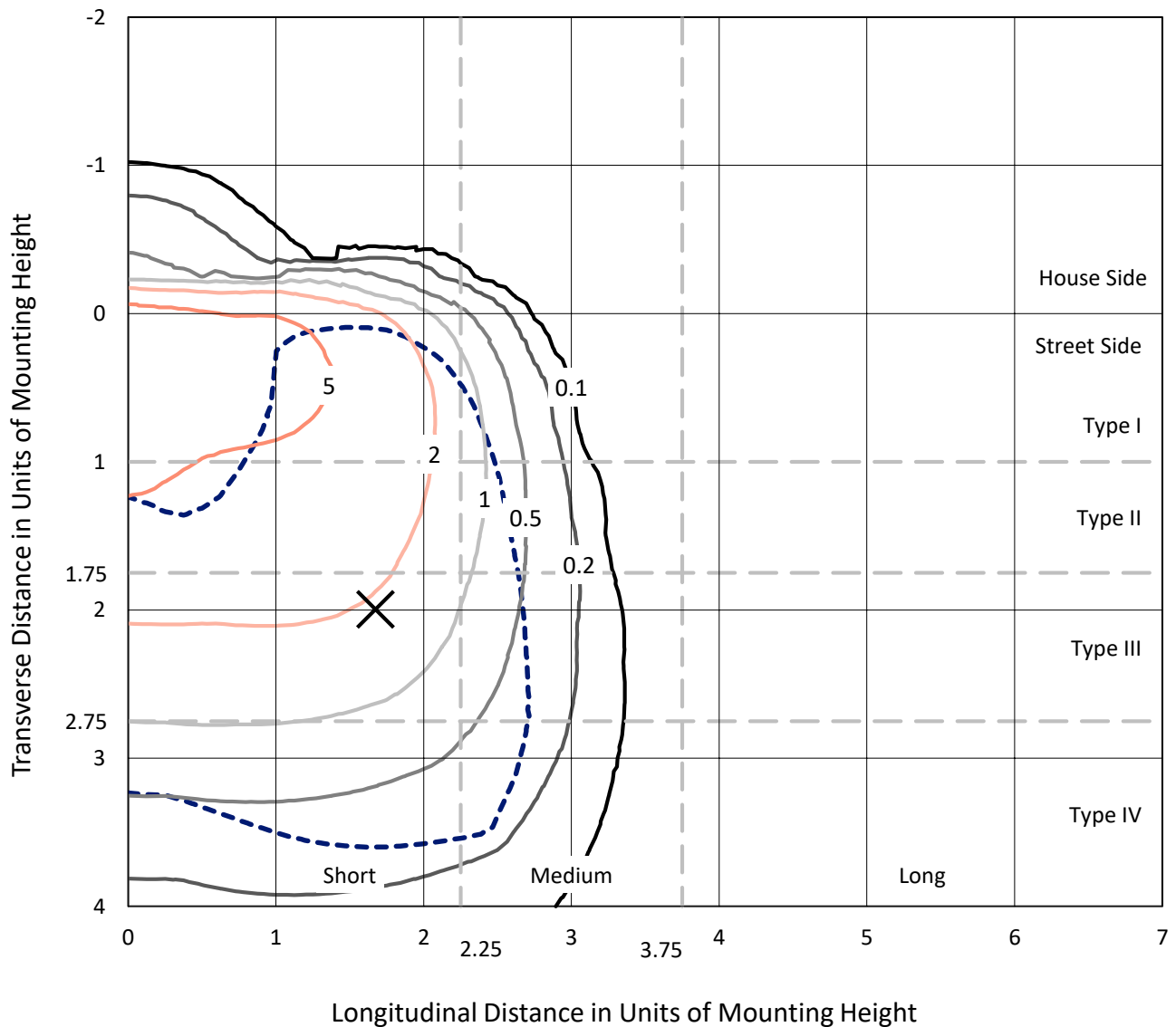
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

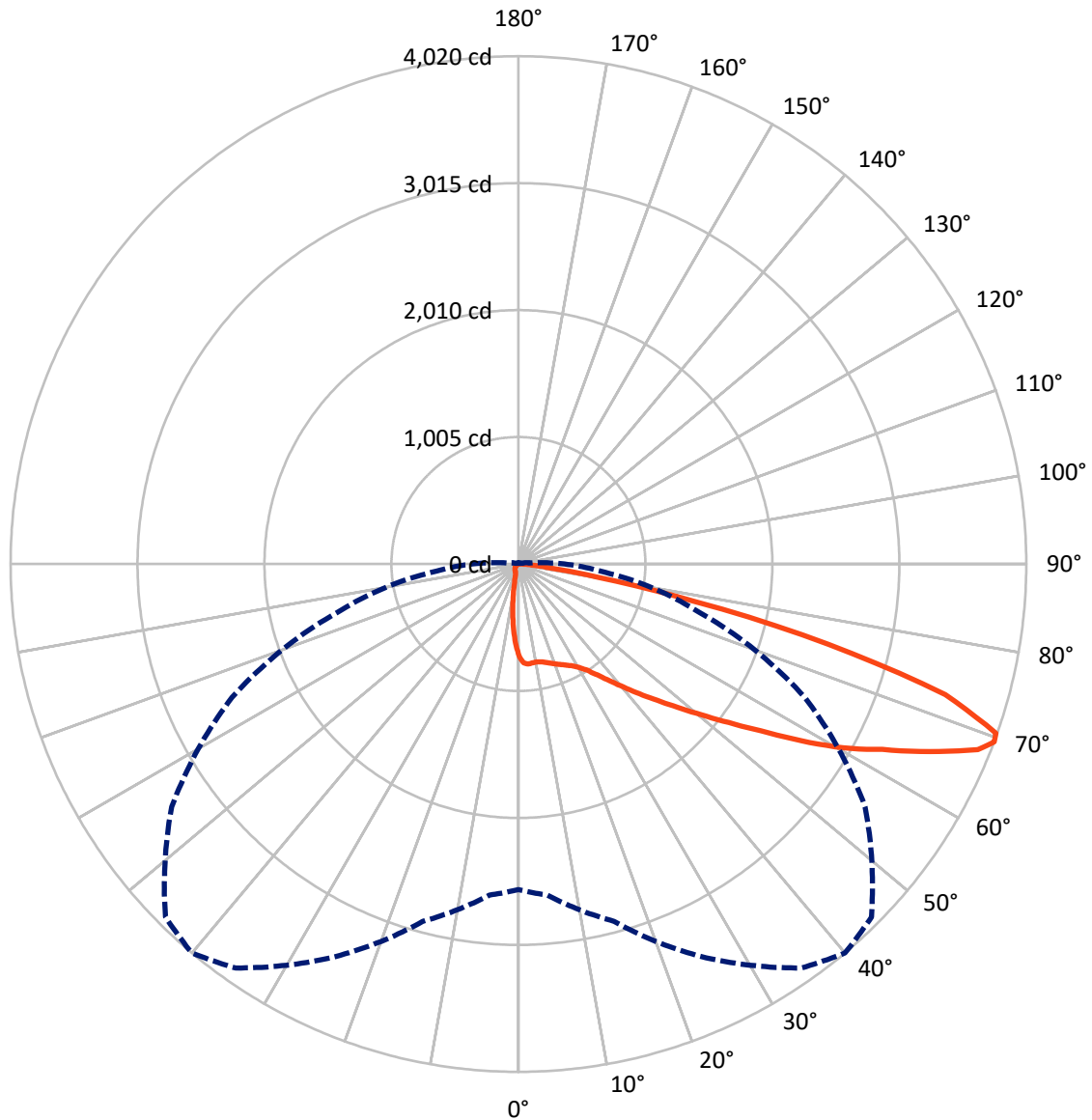
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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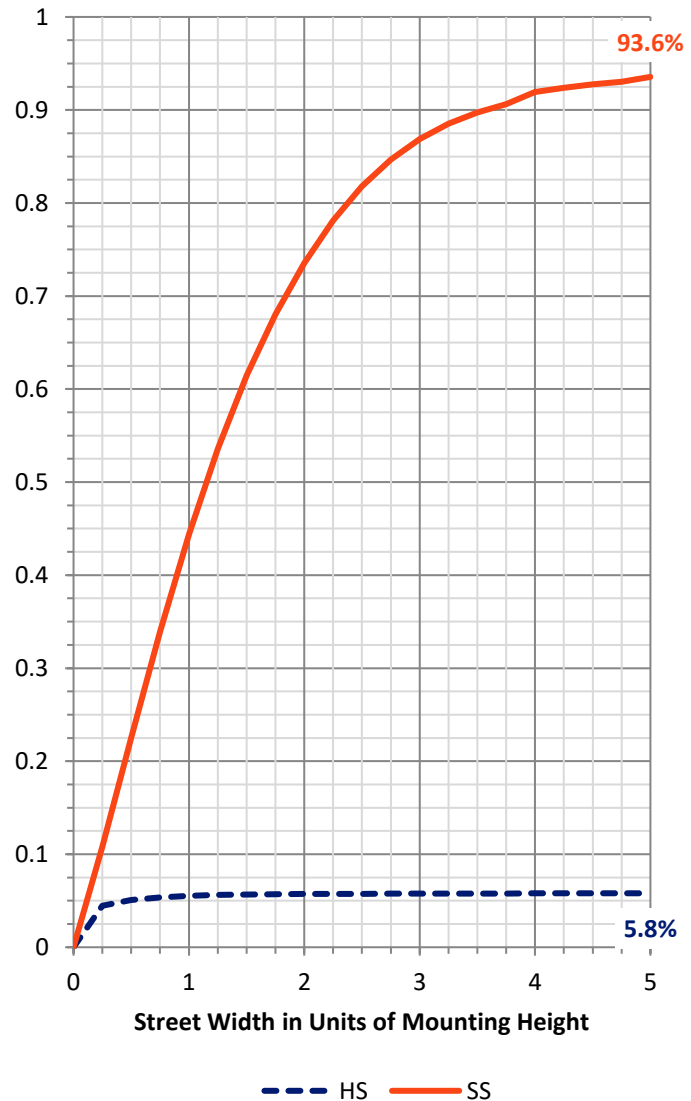
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	286.3	0.0	286.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4606.4	0.0	4606.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	4892.6	0.0	4892.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.2
10°-20°	145.7	3.0
20°-30°	245.5	5.0
30°-40°	401.9	8.2
40°-50°	695.9	14.2
50°-60°	1096.0	22.4
60°-70°	1431.4	29.3
70°-80°	737.2	15.1
80°-90°	79.8	1.6
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°	4892.6	100.0
0°-180°	4892.6	100.0



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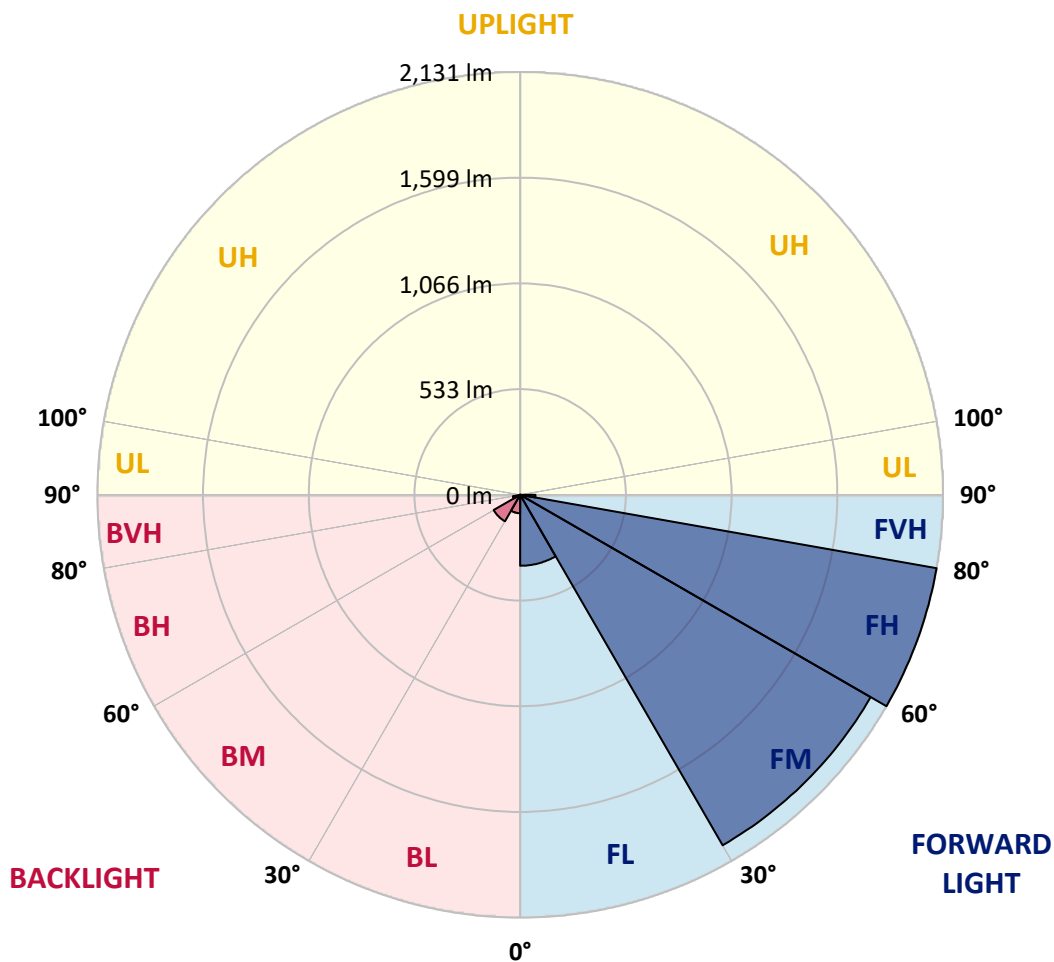
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.8	7.3			
FM	(30°-60°)	2039.9	41.7			
FH	(60°-80°)	2131.4	43.6			G2/5000
FVH	(80°-90°)	77.2	1.6			G1/100
BL	(0°-30°)	92.7	1.9	B0/110		
BM	(30°-60°)	153.9	3.1	B0/220		
BH	(60°-80°)	37.2	0.8	B0/110		G0/110
BVH	(80°-90°)	2.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	802.6	798.2	795.6	792.1	787.8	783.9	782.6	771.8	761.5	747.6	731.6
5°	817.5	816.0	811.4	806.7	801.4	795.6	792.4	779.6	765.1	744.7	716.7
7.5°	818.9	817.1	811.4	804.9	797.7	790.7	785.1	772.4	759.0	738.3	704.1
10°	816.6	814.5	810.1	803.2	794.2	787.4	782.0	769.7	758.4	739.6	701.9
12.5°	814.0	811.9	809.9	806.5	798.5	793.9	789.2	777.6	767.4	751.7	710.3
15°	816.6	815.4	817.8	816.2	811.9	807.9	803.2	792.6	783.4	770.3	725.7
17.5°	827.6	827.6	835.0	835.9	831.8	825.9	819.2	808.7	800.9	789.8	744.0
20°	853.7	852.8	862.0	863.8	853.9	844.9	835.0	822.1	816.0	809.1	762.2
22.5°	898.1	894.1	899.6	897.9	878.3	864.4	852.1	836.4	833.2	830.1	782.2
25°	956.1	953.8	957.5	940.4	906.0	887.0	872.6	854.7	854.7	858.0	804.9
27.5°	1040.2	1031.5	1018.8	988.5	936.9	912.8	897.0	878.0	883.1	895.0	835.0
30°	1126.5	1116.8	1087.4	1040.8	974.5	949.1	930.8	911.0	922.5	944.4	875.1
32.5°	1211.4	1200.8	1159.1	1100.2	1028.3	1003.0	985.2	963.3	982.9	1019.6	933.9
35°	1293.9	1284.4	1236.3	1167.0	1100.0	1079.1	1062.6	1043.8	1068.8	1120.0	1016.9
37.5°	1386.5	1376.0	1317.5	1242.4	1187.1	1172.0	1160.0	1141.0	1184.7	1259.9	1132.6
40°	1500.4	1482.6	1403.8	1328.9	1287.8	1280.5	1272.4	1269.8	1337.7	1441.5	1286.6
42.5°	1630.9	1601.7	1494.0	1420.1	1398.5	1403.8	1401.7	1413.4	1529.0	1667.7	1474.2
45°	1761.4	1723.8	1594.5	1517.3	1520.3	1538.6	1550.0	1596.5	1768.6	1926.8	1676.0
47.5°	1872.0	1835.0	1690.9	1622.4	1657.4	1693.5	1724.3	1812.6	2015.0	2181.9	1833.1
50°	1966.6	1931.7	1793.1	1738.1	1816.7	1874.9	1925.0	2055.8	2280.0	2376.2	1943.0
52.5°	2044.1	2020.9	1899.2	1870.5	1998.7	2084.0	2157.5	2314.1	2514.7	2533.9	2028.7
55°	2119.5	2102.9	2013.0	2028.1	2212.5	2328.7	2421.5	2588.2	2716.8	2665.6	2110.8
57.5°	2206.4	2191.2	2142.9	2227.9	2493.6	2639.7	2741.1	2831.0	2894.9	2800.2	2188.3
60°	2294.9	2286.1	2287.4	2449.8	2816.1	2956.5	3012.5	3035.8	3069.5	2926.8	2192.7
62.5°	2379.3	2395.9	2452.5	2696.7	3125.2	3233.0	3261.2	3284.3	3244.6	2946.9	2025.7
65°	2522.4	2549.4	2684.3	3027.3	3465.0	3580.3	3609.5	3530.6	3272.2	2687.1	1647.7
67.5°	2592.1	2641.8	2882.3	3335.4	3794.7	3922.9	3912.0	3546.5	2936.5	2049.0	1057.4
69°	2577.7	2630.4	2928.0	3429.7	3904.2	4020.4	3952.0	3350.6	2501.6	1484.4	649.1
70°	2519.9	2573.3	2904.4	3426.3	3918.1	4010.3	3878.0	3108.5	2115.2	1085.4	406.0
72.5°	2104.5	2150.4	2578.5	3097.0	3609.5	3534.6	3244.2	2153.6	1030.7	295.5	91.4
75°	1295.4	1321.1	1850.2	2333.0	2726.2	2533.9	2161.4	1071.4	307.2	83.6	50.7
77.5°	684.4	696.1	1013.0	1375.1	1728.2	1429.9	1107.8	417.9	141.5	52.5	36.7
80°	404.5	413.2	545.4	628.8	747.9	624.6	442.9	256.5	101.4	32.9	32.7
82.5°	231.5	237.1	395.5	349.5	294.7	251.7	220.4	243.2	60.8	22.2	33.8
85°	85.0	86.2	222.5	265.9	175.4	104.3	109.5	201.6	16.3	13.9	26.6
87.5°	39.7	38.8	114.5	162.8	102.4	66.1	85.3	44.2	6.4	9.1	7.3
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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	722.2	711.5	691.9	671.8	651.5	635.8	620.3	608.1	603.9	596.4	597.0
5°	700.2	680.3	639.5	598.2	555.0	519.5	486.1	459.0	445.9	432.4	432.4
7.5°	680.9	652.1	588.3	521.0	451.4	392.9	340.2	300.6	278.7	261.2	260.9
10°	673.6	634.6	545.4	449.0	352.2	272.3	209.7	169.5	148.8	135.4	134.8
12.5°	676.9	628.5	512.5	382.6	260.9	175.1	121.5	95.5	86.8	82.7	82.7
15°	686.1	626.7	479.6	317.7	184.3	109.5	80.7	73.6	73.1	73.1	73.1
17.5°	697.5	627.2	445.9	254.6	125.5	78.3	69.6	68.8	69.3	69.3	69.3
20°	709.1	627.5	409.5	196.0	88.5	68.2	65.5	65.2	65.8	65.8	66.1
22.5°	723.4	629.0	373.0	146.5	73.1	64.4	62.3	62.3	62.6	62.6	62.3
25°	739.6	631.9	335.2	108.6	66.6	61.7	60.0	59.6	60.0	59.6	59.4
27.5°	760.1	636.0	293.0	85.0	63.8	59.1	57.7	57.7	57.4	57.1	56.9
30°	785.7	640.7	245.5	72.2	60.8	56.9	55.2	55.0	54.7	54.2	54.2
32.5°	824.8	650.8	198.7	65.5	57.7	53.5	52.5	52.5	51.8	51.3	51.0
35°	884.8	671.0	156.7	61.4	54.2	50.0	48.6	48.6	48.1	47.7	47.4
37.5°	967.7	701.6	121.8	57.7	50.7	46.3	44.8	44.6	43.9	43.3	43.0
40°	1078.2	739.4	95.8	54.2	47.2	42.5	41.3	40.8	39.7	38.8	38.8
42.5°	1216.7	782.6	77.8	50.4	43.0	39.0	38.1	37.2	35.3	34.4	34.1
45°	1361.8	821.3	65.8	46.0	39.0	35.5	35.0	33.6	30.9	30.0	30.0
47.5°	1466.4	830.3	57.9	41.9	35.3	31.8	31.4	28.9	26.6	25.9	25.6
50°	1531.6	812.6	51.6	37.9	31.8	28.3	27.5	24.1	22.7	22.2	21.9
52.5°	1575.5	780.7	46.3	34.4	28.5	25.0	23.1	20.6	19.5	18.9	18.9
55°	1610.8	736.0	41.1	31.1	25.9	22.4	19.5	17.8	16.6	16.1	16.1
57.5°	1620.7	675.1	35.8	28.5	23.3	19.7	16.6	15.4	13.9	13.6	13.6
60°	1548.7	565.3	31.8	25.3	21.0	17.2	14.5	13.1	11.7	11.4	11.0
62.5°	1359.1	437.5	28.0	22.4	18.3	14.9	12.6	10.8	9.7	9.7	9.7
65°	1036.8	293.3	24.5	19.5	16.1	12.6	10.8	8.7	8.2	8.2	8.4
67.5°	620.6	159.6	21.0	16.6	13.6	10.5	9.1	7.5	7.3	7.5	7.5
69°	363.8	93.8	18.9	14.9	11.9	9.3	7.8	6.7	7.3	7.5	7.5
70°	224.5	63.2	17.5	13.4	10.8	8.4	7.3	6.4	7.0	7.3	7.3
72.5°	62.6	32.7	13.9	10.5	8.7	7.0	5.8	5.8	6.7	7.0	7.0
75°	40.8	24.1	10.8	7.8	6.7	5.6	4.9	5.6	6.4	6.7	6.7
77.5°	33.8	19.7	8.7	6.4	5.6	5.3	4.7	4.9	5.8	6.1	6.1
80°	30.9	13.9	7.0	5.8	4.9	4.7	4.4	4.1	5.3	5.6	5.6
82.5°	29.4	11.0	6.1	5.3	4.7	4.1	3.9	4.1	4.7	4.9	5.3
85°	18.3	7.3	5.6	4.9	4.1	3.9	3.9	3.9	4.4	4.7	4.7
87.5°	6.7	5.8	4.9	4.1	3.5	3.5	3.5	3.5	3.9	4.4	4.4
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)