

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: P268180

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4432.4 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

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

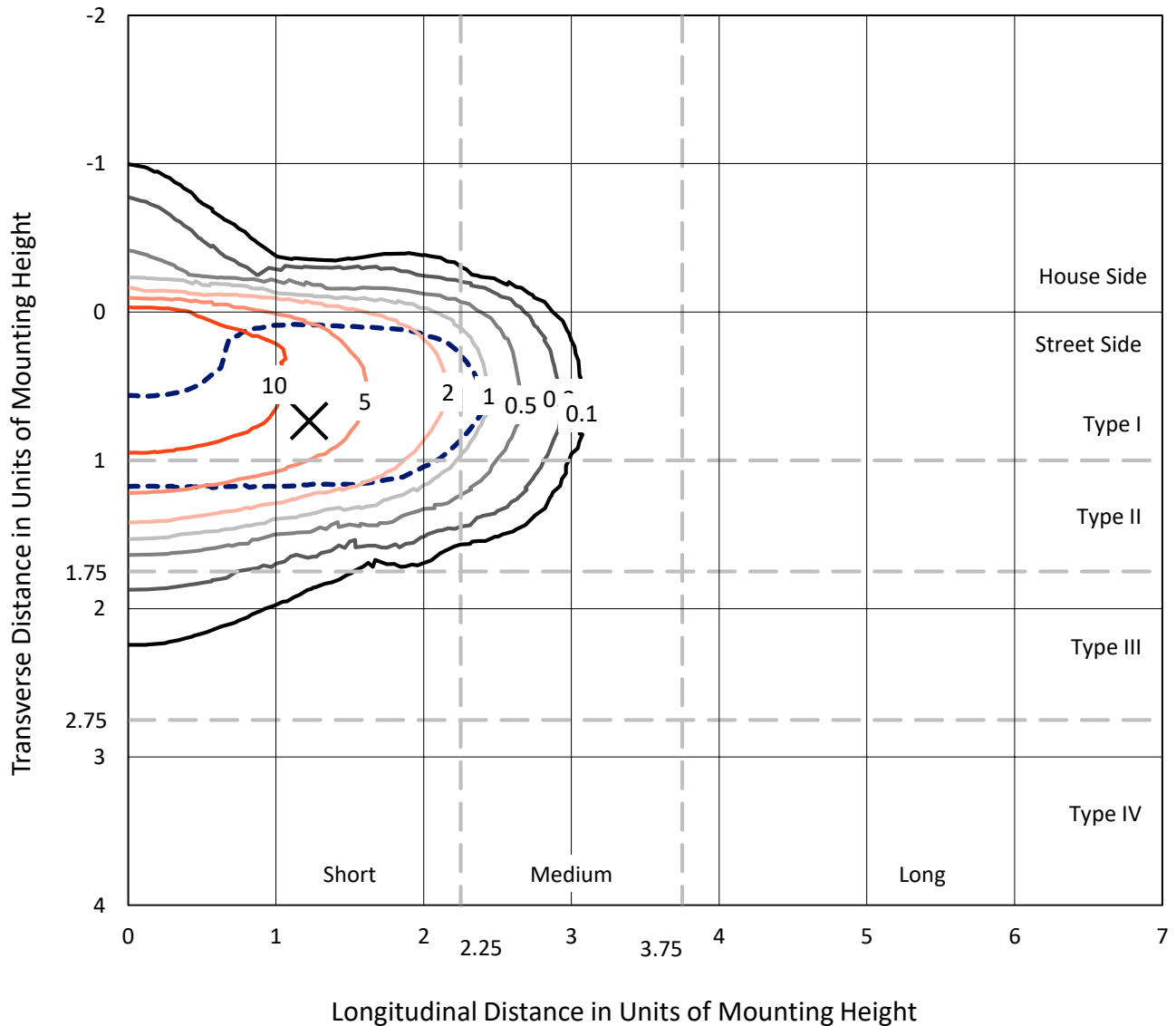


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Iso-Footcandle Lines of Horizontal Illumination

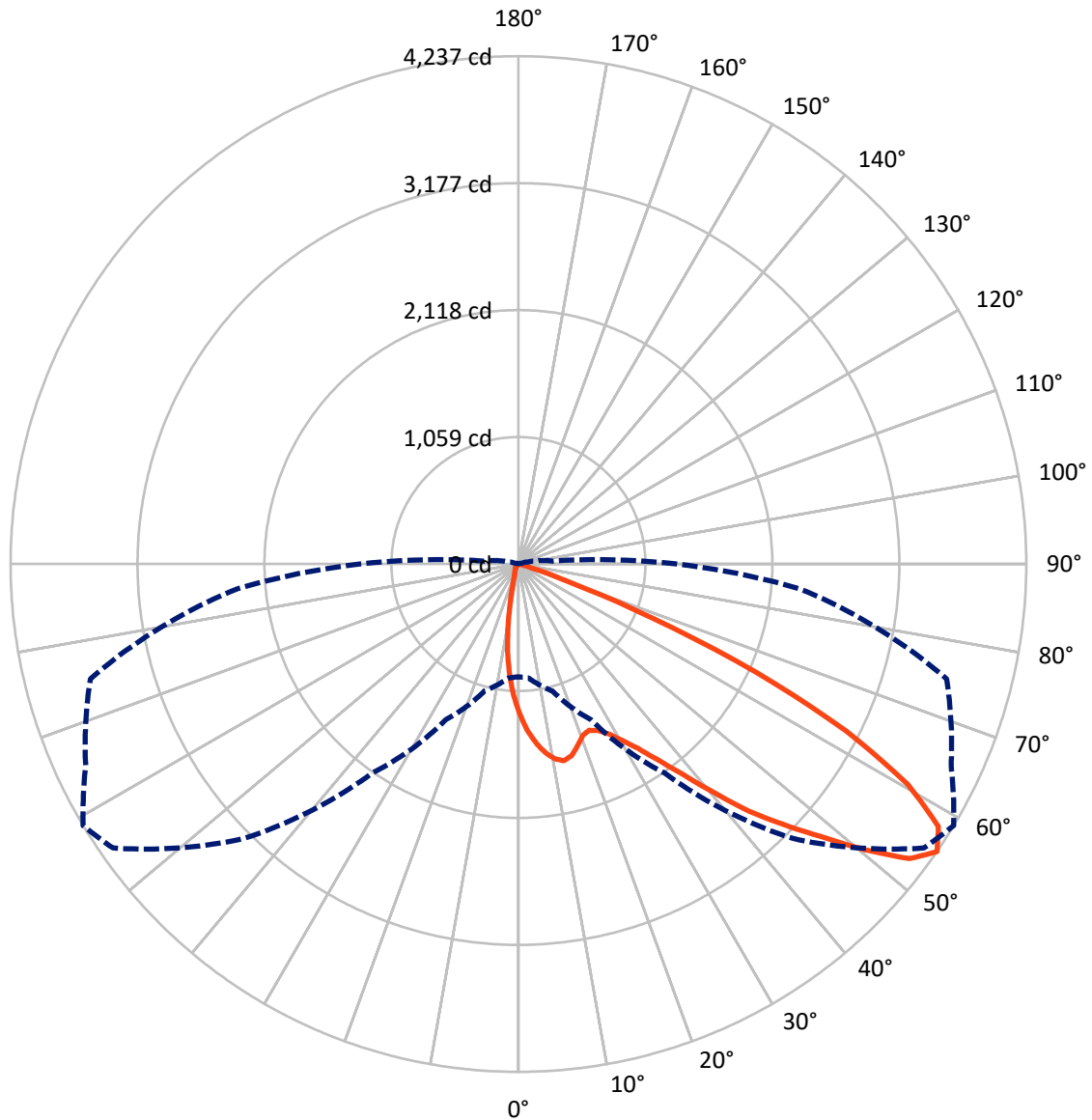
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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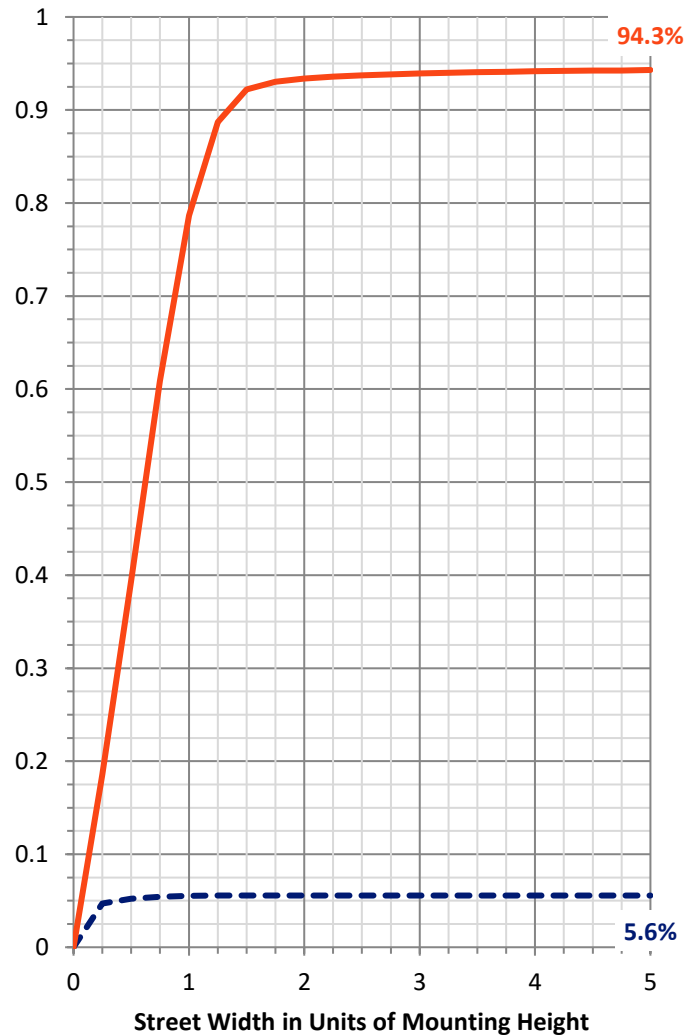
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.6	0.0	247.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4184.8	0.0	4184.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	4432.4	0.0	4432.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	2.4
10°-20°	250.2	5.6
20°-30°	425.8	9.6
30°-40°	732.3	16.5
40°-50°	1130.5	25.5
50°-60°	1136.5	25.6
60°-70°	582.8	13.1
70°-80°	63.2	1.4
80°-90°	6.6	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°	4432.4	100.0
0°-180°	4432.4	100.0

Coefficient of Utilization



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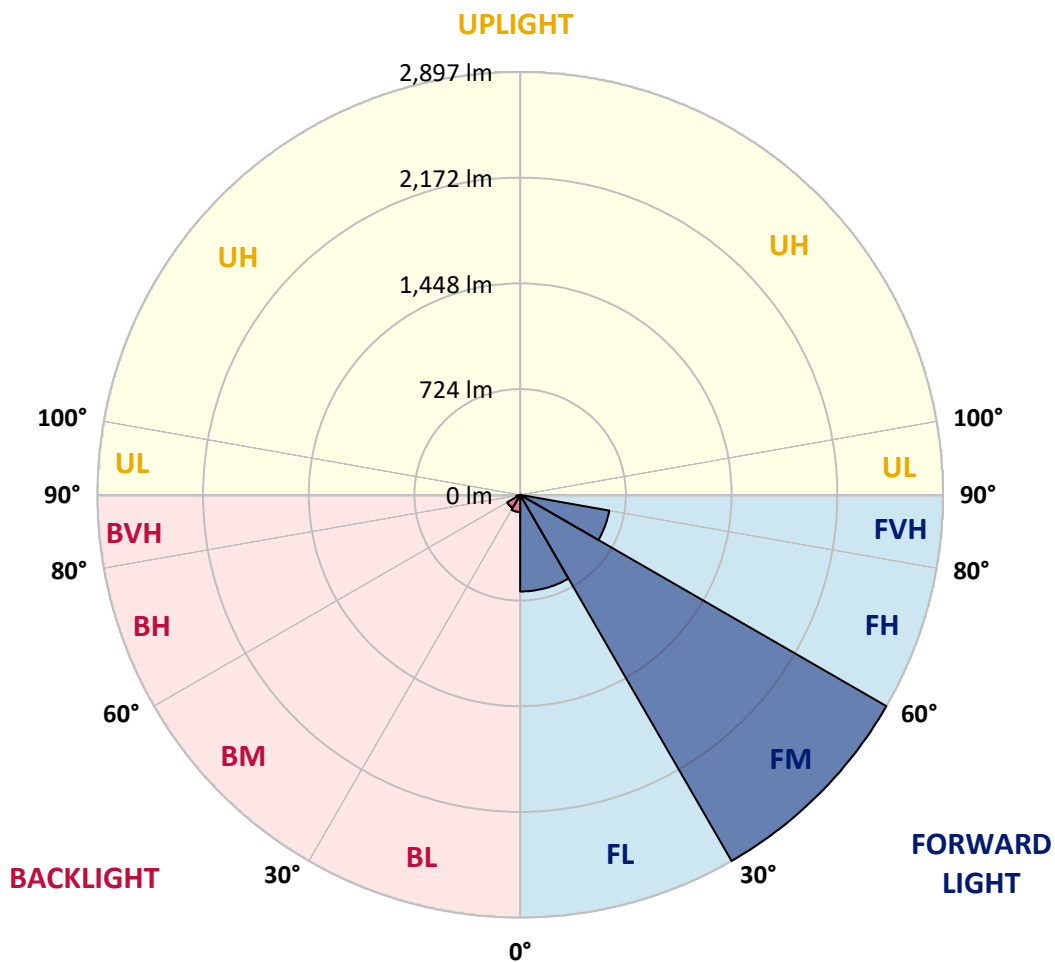
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.3	14.9			
FM	(30°-60°)	2896.5	65.3			
FH	(60°-80°)	619.5	14.0			G0/660
FVH	(80°-90°)	6.5	0.1			G0/10
BL	(0°-30°)	118.2	2.7	B1/500		
BM	(30°-60°)	102.7	2.3	B0/220		
BH	(60°-80°)	26.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7
2.5°	1476.4	1460.6	1456.0	1452.7	1438.4	1420.3	1395.7	1384.3	1360.8	1322.8	1276.2
5°	1611.5	1608.7	1598.3	1592.4	1577.1	1551.5	1512.1	1493.3	1456.0	1392.1	1308.7
7.5°	1552.5	1570.4	1584.9	1609.0	1639.2	1638.1	1605.4	1585.7	1543.7	1459.6	1344.8
10°	1324.1	1338.7	1362.3	1416.9	1528.3	1626.7	1665.4	1651.4	1617.8	1521.5	1379.5
12.5°	1279.4	1277.7	1282.1	1298.0	1356.3	1496.4	1655.2	1683.8	1677.0	1578.3	1412.5
15°	1303.1	1301.4	1300.7	1306.2	1320.4	1379.5	1578.6	1660.4	1713.1	1631.0	1440.5
17.5°	1369.8	1362.0	1357.8	1353.3	1349.2	1363.8	1486.5	1595.3	1718.5	1677.0	1463.8
20°	1484.2	1471.1	1455.7	1430.6	1406.9	1399.6	1447.8	1528.3	1699.0	1712.0	1478.9
22.5°	1627.8	1611.0	1584.3	1538.5	1490.6	1463.0	1466.9	1507.1	1669.6	1750.2	1485.9
25°	1789.2	1767.8	1732.1	1668.5	1598.3	1549.0	1523.3	1537.4	1656.2	1795.0	1494.2
27.5°	1962.1	1938.3	1891.7	1805.1	1725.4	1658.9	1606.6	1604.7	1679.0	1853.6	1507.1
30°	2133.4	2129.7	2069.1	1977.4	1871.8	1791.0	1715.7	1706.1	1742.6	1934.6	1533.0
32.5°	2362.1	2334.5	2260.2	2166.1	2044.3	1947.2	1858.0	1835.4	1840.2	2029.0	1573.1
35°	2650.2	2620.1	2515.6	2385.4	2249.3	2134.7	2036.1	2005.5	1994.0	2183.6	1640.6
37.5°	2836.5	2835.9	2770.4	2638.0	2491.7	2365.3	2258.2	2222.2	2199.1	2370.4	1745.1
40°	2841.5	2853.7	2862.4	2861.1	2757.0	2640.6	2545.3	2501.2	2447.1	2619.8	1880.4
42.5°	2688.9	2720.5	2796.8	2925.9	2987.7	2941.4	2861.1	2817.7	2737.0	2887.0	2045.3
45°	2482.8	2504.8	2638.0	2876.0	3112.6	3239.6	3178.4	3100.7	2994.5	3165.5	2193.0
47.5°	2390.5	2394.4	2480.5	2741.7	3122.1	3483.8	3520.9	3394.7	3228.2	3389.9	2308.6
50°	2114.5	2121.5	2240.4	2509.2	3011.7	3599.1	3865.2	3745.5	3483.4	3562.9	2350.8
52.5°	1593.8	1603.7	1754.4	2127.0	2708.3	3550.0	4111.6	4082.5	3762.7	3647.4	2353.1
55°	940.3	953.5	1097.3	1431.9	2130.2	3237.2	4130.0	4236.6	3983.3	3697.3	2349.4
57.5°	439.2	448.3	530.7	737.6	1324.9	2558.5	3854.3	4130.9	4104.9	3723.7	2375.3
60°	233.3	236.0	255.7	319.3	598.7	1622.2	3316.3	3730.3	3994.0	3760.3	2407.0
62.5°	178.5	179.2	178.1	185.7	251.6	720.1	2506.6	3066.6	3547.4	3732.8	2372.0
65°	154.6	155.9	148.6	146.8	161.3	256.8	1489.1	2185.9	2787.6	3362.3	2133.1
67.5°	138.6	139.1	130.3	122.7	125.4	138.9	587.5	1196.7	1845.1	2464.5	1546.2
70°	127.6	127.1	117.5	105.5	102.0	95.0	186.8	438.6	881.7	1249.8	719.1
72.5°	112.9	113.2	108.5	92.9	84.7	66.5	86.5	127.9	263.2	340.5	168.4
75°	100.3	98.9	93.2	83.2	69.9	43.7	42.8	57.0	81.0	80.6	36.3
77.5°	72.5	71.1	73.0	68.4	53.5	28.2	21.5	27.5	33.0	31.9	10.2
80°	53.1	52.3	47.2	56.8	47.3	19.4	13.4	14.6	17.0	14.5	3.1
82.5°	36.3	36.1	33.1	31.4	26.9	11.8	8.4	9.2	11.0	8.2	1.5
85°	5.7	6.6	24.1	19.1	16.0	5.2	5.7	6.3	7.4	4.4	0.4
87.5°	0.0	0.0	11.3	9.9	3.1	2.1	3.5	3.7	3.7	2.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7
2.5°	1252.3	1226.2	1177.9	1127.9	1081.6	1026.5	988.5	960.0	927.1	918.1	937.6
5°	1261.0	1211.6	1107.5	994.2	887.7	769.8	679.6	608.2	543.6	521.6	541.5
7.5°	1274.7	1201.2	1031.3	844.9	659.6	475.6	349.5	266.5	213.6	197.9	206.4
10°	1288.2	1185.9	943.2	668.1	414.8	231.6	150.6	120.4	109.1	106.7	108.1
12.5°	1299.5	1165.6	835.8	475.1	221.8	124.0	98.6	93.7	92.0	92.0	92.5
15°	1306.2	1134.6	708.4	302.1	127.6	93.7	86.1	84.5	84.5	84.7	85.2
17.5°	1305.4	1095.5	568.9	182.8	95.5	83.0	78.5	77.2	77.0	77.4	77.8
20°	1295.8	1044.2	429.0	120.6	83.2	75.5	71.1	68.8	68.5	69.1	69.6
22.5°	1277.5	980.9	306.9	92.9	75.1	68.5	63.1	60.9	60.9	61.4	62.1
25°	1255.3	903.4	209.8	78.7	67.7	60.9	55.8	53.9	54.3	55.8	56.0
27.5°	1227.5	816.4	142.6	67.6	58.8	53.4	49.4	48.1	49.4	51.3	51.8
30°	1203.8	725.7	101.8	58.3	49.9	46.1	43.7	43.7	45.5	48.9	49.6
32.5°	1185.5	637.6	78.5	51.6	43.4	40.1	38.6	40.1	42.8	46.4	47.2
35°	1183.1	565.3	66.5	46.1	38.6	35.4	34.8	37.1	40.1	42.6	43.2
37.5°	1201.2	498.3	59.8	41.6	34.6	31.4	30.8	33.7	36.7	39.7	40.6
40°	1235.3	445.6	55.2	37.4	31.1	27.7	26.7	28.7	32.7	36.9	37.9
42.5°	1279.8	402.4	49.9	33.1	27.7	23.0	21.6	24.1	28.2	32.7	34.0
45°	1322.2	364.9	44.1	28.4	23.3	17.7	17.2	20.4	22.5	26.9	27.9
47.5°	1345.5	332.0	39.3	23.3	18.1	14.5	14.5	15.2	17.2	22.5	23.5
50°	1337.7	305.6	34.0	17.2	12.5	11.0	11.0	10.7	13.8	18.1	18.9
52.5°	1321.9	290.3	29.3	13.4	8.7	7.8	7.0	7.8	9.7	11.5	11.8
55°	1319.6	287.7	24.7	10.7	6.0	5.2	4.0	4.0	4.0	3.7	3.1
57.5°	1337.9	291.9	20.8	8.7	4.4	3.5	2.1	0.0	0.0	0.0	0.0
60°	1356.8	296.4	17.7	6.0	3.1	1.8	0.3	0.0	0.0	0.0	0.0
62.5°	1325.4	286.4	14.9	3.7	2.3	0.8	0.0	0.0	0.0	0.0	0.0
65°	1164.3	243.8	11.8	2.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	828.1	163.2	7.8	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	377.9	68.4	5.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	80.8	21.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.4	15.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.1	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)