

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: P268682

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22900.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

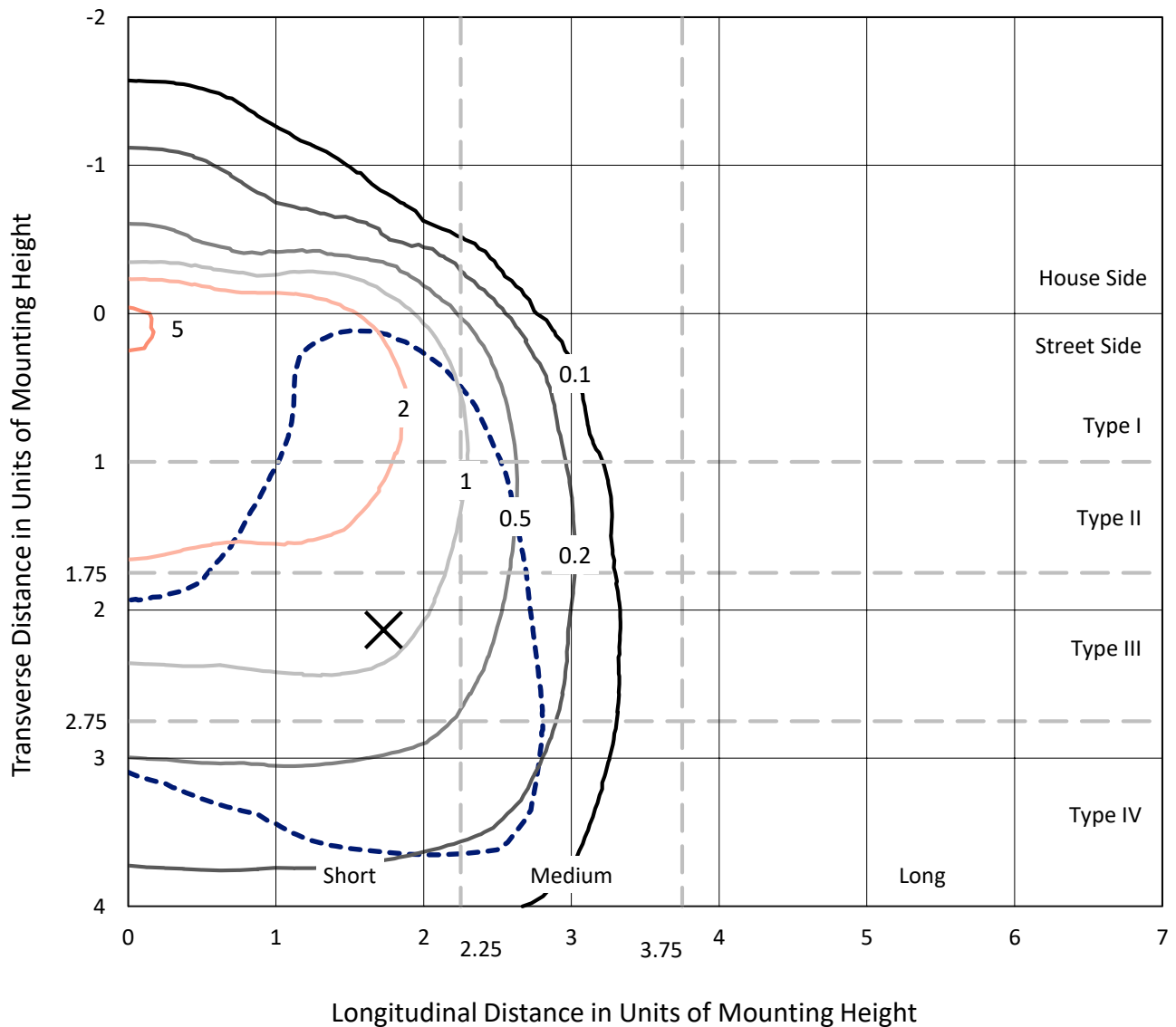
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

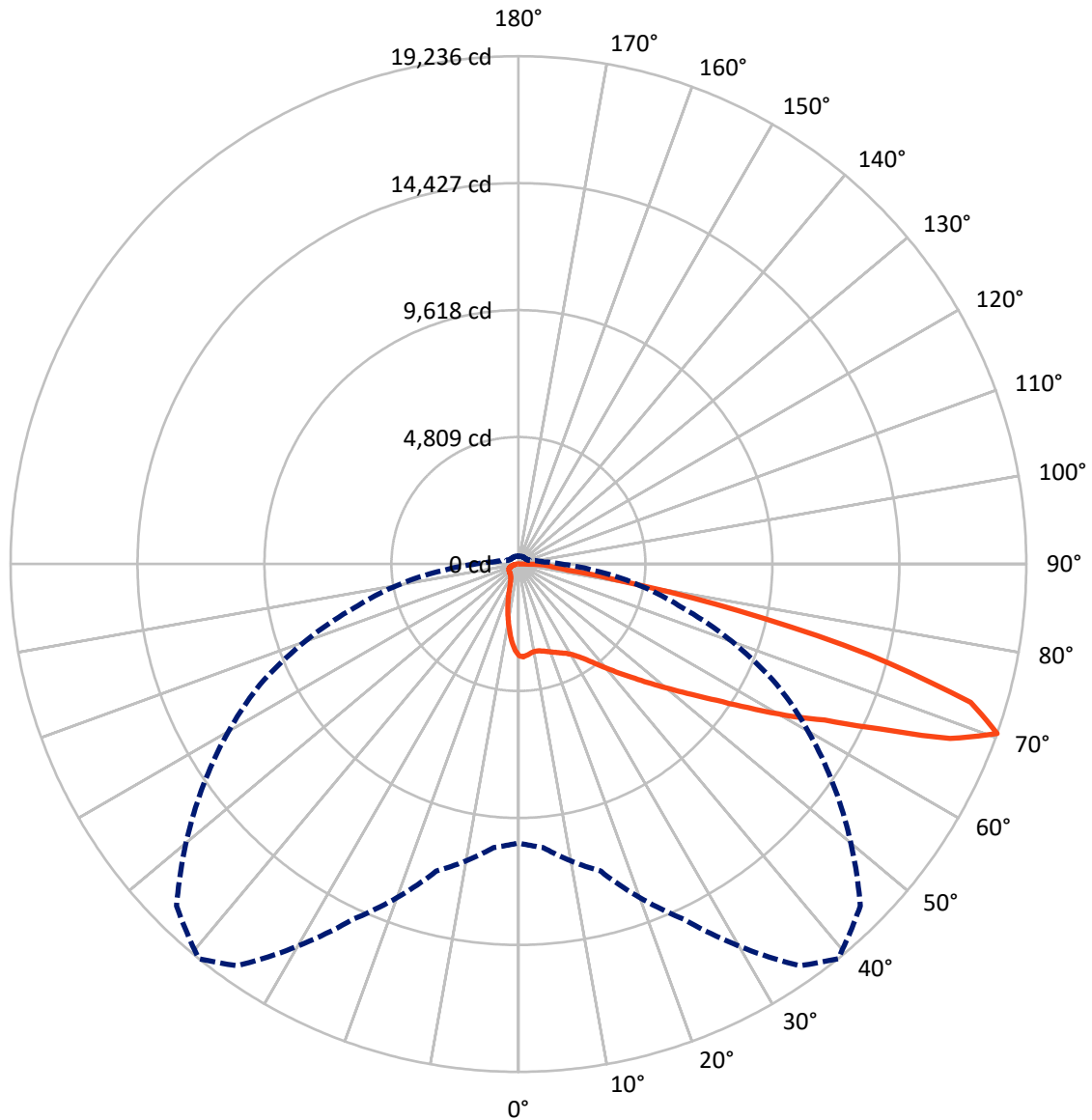
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2604.6	0.0	2604.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	20296.3	0.0	20296.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	22900.9	0.0	22900.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.4	1.3
10°-20°	745.8	3.3
20°-30°	1161.2	5.1
30°-40°	1809.0	7.9
40°-50°	3037.0	13.3
50°-60°	4824.5	21.1
60°-70°	6435.4	28.1
70°-80°	3886.2	17.0
80°-90°	703.3	3.1
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°	22900.9	100.0
0°-180°	22900.9	100.0



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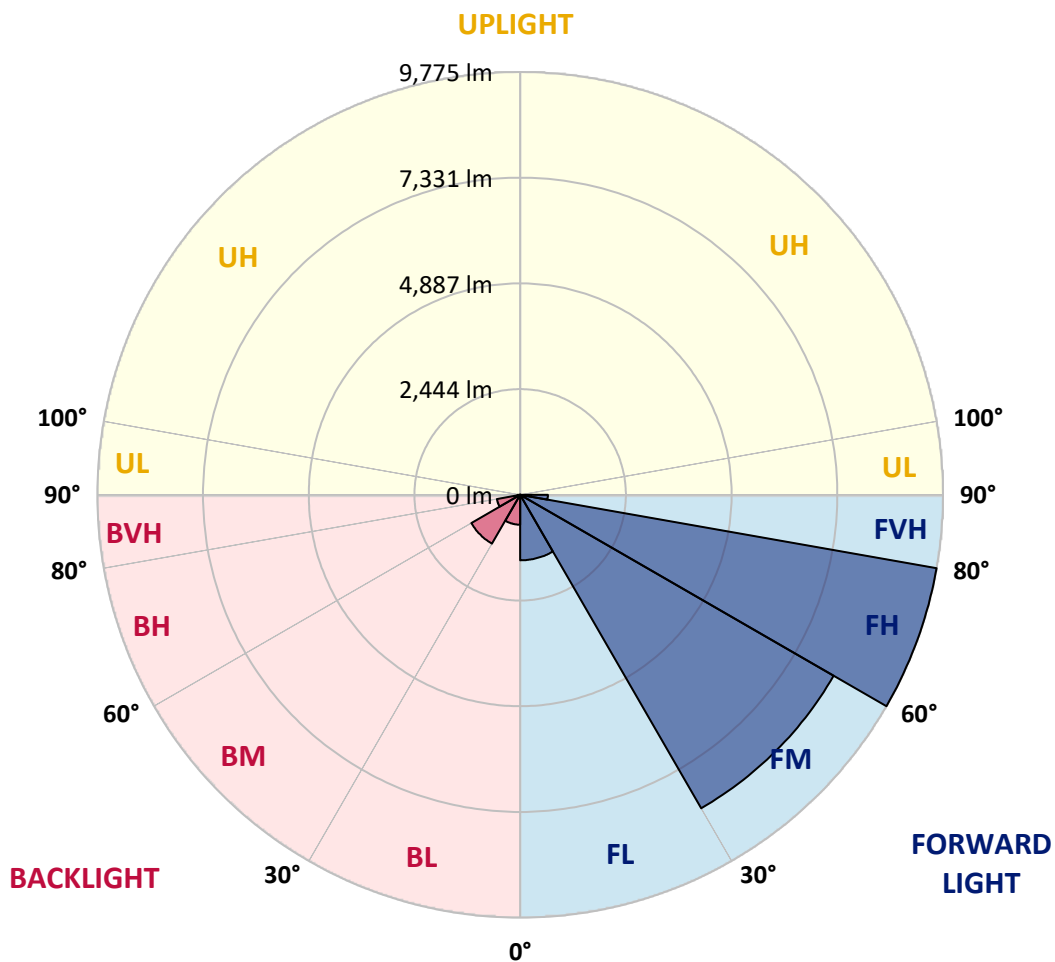
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.5	6.6			
FM	(30°-60°)	8367.1	36.5			
FH	(60°-80°)	9774.8	42.7			G4/12000
FVH	(80°-90°)	640.0	2.8			G4/750
BL	(0°-30°)	691.0	3.0	B2/1000		
BM	(30°-60°)	1303.4	5.7	B2/2500		
BH	(60°-80°)	546.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	63.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
2.5°	3544.3	3543.1	3533.8	3526.7	3520.9	3518.7	3523.3	3505.8	3490.6	3472.0	3452.2
5°	3517.5	3516.2	3501.1	3487.2	3473.2	3468.5	3467.4	3435.9	3417.3	3389.3	3352.1
7.5°	3488.4	3482.5	3462.7	3439.4	3414.9	3403.4	3391.7	3350.9	3329.9	3302.1	3259.1
10°	3458.0	3451.1	3432.5	3409.2	3385.9	3368.5	3348.6	3309.0	3286.9	3266.0	3215.9
12.5°	3426.7	3420.8	3416.2	3405.7	3389.3	3374.3	3359.1	3325.3	3302.1	3277.6	3219.3
15°	3422.1	3419.7	3430.2	3437.2	3427.8	3418.5	3402.2	3373.0	3348.6	3324.2	3248.5
17.5°	3459.3	3458.0	3484.9	3503.5	3498.9	3482.5	3460.5	3427.8	3408.0	3387.1	3292.7
20°	3540.8	3546.6	3579.1	3603.6	3580.4	3557.1	3520.9	3475.5	3465.0	3455.8	3338.1
22.5°	3694.5	3700.3	3723.6	3732.8	3672.4	3638.6	3588.5	3530.2	3523.3	3530.2	3392.9
25°	3934.2	3928.5	3925.0	3890.0	3779.4	3727.1	3663.0	3602.5	3605.9	3637.3	3469.8
27.5°	4252.1	4220.7	4171.8	4067.0	3891.2	3833.0	3754.9	3699.1	3721.1	3781.8	3585.0
30°	4581.6	4546.7	4433.9	4262.6	4037.9	3973.9	3886.5	3823.6	3881.8	3977.3	3738.7
32.5°	4886.7	4882.1	4716.7	4496.6	4240.4	4184.7	4097.3	4026.3	4120.5	4266.1	3969.3
35°	5219.7	5230.2	5032.2	4767.9	4514.2	4456.0	4393.0	4339.5	4465.3	4665.4	4303.4
37.5°	5576.0	5597.0	5362.9	5064.9	4826.1	4801.7	4764.5	4741.2	4935.6	5212.8	4770.3
40°	6052.2	6031.3	5706.5	5400.3	5209.2	5208.1	5196.4	5224.5	5548.1	5927.6	5369.9
42.5°	6562.2	6500.5	6070.8	5760.0	5629.6	5669.2	5692.5	5806.6	6285.1	6796.2	6101.1
45°	7111.8	6973.3	6449.3	6140.8	6096.4	6180.2	6259.5	6507.5	7152.6	7784.7	6902.1
47.5°	7550.8	7416.9	6840.6	6540.1	6636.7	6763.7	6916.2	7308.5	8123.6	8805.8	7692.7
50°	7896.6	7809.2	7235.2	7005.8	7231.6	7427.2	7676.5	8215.5	9134.2	9800.1	8425.2
52.5°	8231.9	8166.8	7633.3	7483.2	7930.2	8200.4	8539.3	9188.9	10170.5	10778.3	9041.1
55°	8534.5	8488.1	8061.8	8078.2	8752.4	9104.0	9530.1	10297.5	11299.9	11650.4	9562.6
57.5°	8875.8	8816.3	8550.8	8824.5	9808.4	10264.8	10819.0	11543.2	12359.4	12425.9	9959.8
60°	9219.2	9168.0	9093.5	9686.2	11149.8	11629.4	12154.5	12750.6	13434.2	13027.8	9936.4
62.5°	9517.4	9523.1	9654.8	10590.7	12463.1	13018.4	13658.9	14247.9	14406.4	13132.6	9201.8
65°	10022.6	10114.6	10506.9	11871.6	14312.1	15054.9	15840.8	15746.5	14675.3	12153.3	7626.4
67.5°	10623.4	10785.3	11580.5	13578.5	16648.8	17635.0	17939.0	16085.3	13598.4	9879.4	5436.4
70°	10562.9	10785.3	12043.9	14851.0	18574.7	19236.0	18313.8	14557.8	10798.0	6454.0	2887.5
72.5°	9379.9	9697.7	11099.6	14267.8	17968.1	17909.9	15899.0	10852.9	6415.4	2591.8	1128.2
75°	7149.0	7470.3	8676.6	11271.9	14201.5	13712.4	11281.3	5995.2	2434.6	1029.3	711.4
77.5°	4112.4	4361.6	5293.1	6912.6	9009.6	8507.8	6279.3	2666.3	1185.4	717.2	555.4
80°	2296.1	2434.6	3000.5	3507.1	4415.2	4047.3	2809.5	1656.8	884.9	520.5	428.5
82.5°	1815.2	1938.6	2426.5	2212.3	2016.7	1860.6	1613.7	1475.2	706.7	328.3	256.1
85°	1585.8	1703.5	2053.9	1741.9	1377.5	1263.2	1311.0	1451.9	549.6	197.9	218.8
87.5°	1469.4	1626.7	1830.3	1342.4	1072.3	950.0	1209.7	1591.6	177.0	123.3	88.6
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°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
2.5°	3434.8	3416.2	3385.9	3359.1	3317.3	3295.1	3270.5	3253.1	3239.2	3227.5	3246.1
5°	3328.8	3293.9	3229.9	3161.1	3079.7	3015.6	2962.2	2912.0	2877.1	2853.7	2870.1
7.5°	3228.7	3171.6	3071.6	2946.9	2807.3	2688.4	2590.6	2504.5	2445.0	2406.6	2421.8
10°	3171.6	3100.6	2945.8	2750.3	2544.1	2358.9	2205.2	2072.5	1980.6	1928.1	1936.2
12.5°	3157.7	3065.6	2851.5	2582.4	2300.6	2043.5	1826.9	1642.9	1513.6	1446.1	1448.4
15°	3168.1	3050.6	2762.9	2421.8	2065.6	1740.6	1470.5	1246.9	1096.8	1019.9	1018.8
17.5°	3185.6	3039.0	2669.9	2248.4	1826.9	1449.7	1148.0	929.1	796.3	734.8	730.1
20°	3204.3	3020.3	2565.0	2060.9	1578.9	1179.5	898.8	727.6	643.8	610.0	607.9
22.5°	3231.1	3004.0	2456.8	1862.9	1335.5	960.6	739.3	624.1	579.9	562.3	560.1
25°	3274.1	2995.8	2341.5	1656.8	1116.7	803.4	643.8	572.8	547.2	535.6	534.4
27.5°	3346.2	3007.4	2233.1	1456.6	938.5	697.4	590.4	547.2	528.7	518.1	517.0
30°	3439.4	3043.5	2119.1	1266.8	799.9	625.2	557.7	529.8	514.5	504.2	504.2
32.5°	3594.3	3104.2	1999.2	1102.6	700.9	575.2	533.2	514.5	501.9	493.7	492.5
35°	3822.5	3218.3	1887.3	966.3	629.9	539.2	512.4	498.3	488.9	484.4	484.4
37.5°	4154.3	3398.6	1788.4	868.7	586.9	514.5	492.5	482.0	476.2	476.2	476.2
40°	4600.3	3647.8	1708.0	803.4	562.3	497.2	477.4	469.3	465.7	466.8	466.8
42.5°	5151.1	3971.5	1654.5	758.0	550.8	486.7	466.8	459.9	456.3	455.3	456.3
45°	5778.5	4339.5	1648.7	724.3	539.2	479.8	459.9	452.9	446.0	441.2	441.2
47.5°	6388.7	4713.2	1696.4	712.5	526.2	471.6	454.2	447.0	436.7	426.2	426.2
50°	6927.8	5031.0	1760.5	717.2	521.6	459.9	444.8	441.2	425.0	413.3	412.2
52.5°	7356.3	5275.7	1812.9	731.2	526.2	451.8	433.2	434.3	416.9	404.0	402.9
55°	7699.7	5436.4	1798.9	745.1	536.7	447.0	422.7	425.0	411.1	398.2	398.2
57.5°	7850.0	5377.0	1644.1	733.6	544.9	448.3	414.5	423.8	412.2	400.6	400.6
60°	7527.4	4849.5	1354.1	682.4	534.4	444.8	411.1	428.5	427.4	415.6	414.5
62.5°	6551.7	3905.2	1050.2	606.6	498.3	427.4	401.7	427.4	440.1	436.7	435.5
65°	5049.7	2781.6	802.2	525.1	449.4	398.2	377.3	400.6	418.0	422.7	421.5
67.5°	3277.6	1704.7	618.3	448.3	394.7	364.4	345.8	356.3	359.9	359.9	357.4
70°	1611.4	917.4	492.5	377.3	338.8	328.3	317.9	312.0	306.2	301.7	301.7
72.5°	795.2	599.6	405.1	319.0	292.3	287.5	285.2	278.3	273.7	267.9	265.4
75°	588.0	487.9	344.6	269.0	251.4	246.9	251.4	245.6	244.5	239.8	237.5
77.5°	483.2	415.6	296.9	230.5	215.5	207.2	214.2	215.5	216.6	209.6	207.2
80°	392.4	351.6	248.0	191.0	177.0	171.1	175.8	185.1	187.4	177.0	172.4
82.5°	283.0	287.5	200.2	148.9	137.4	132.7	142.0	153.7	156.0	140.9	137.4
85°	237.5	239.8	153.7	106.0	94.3	87.3	102.4	114.2	122.3	107.1	103.7
87.5°	99.0	140.9	88.6	59.4	52.5	45.5	54.7	60.5	73.3	67.6	66.4
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)