

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: P324723

Luminaire Tested: **GAN-SA9B-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES 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: 34975 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

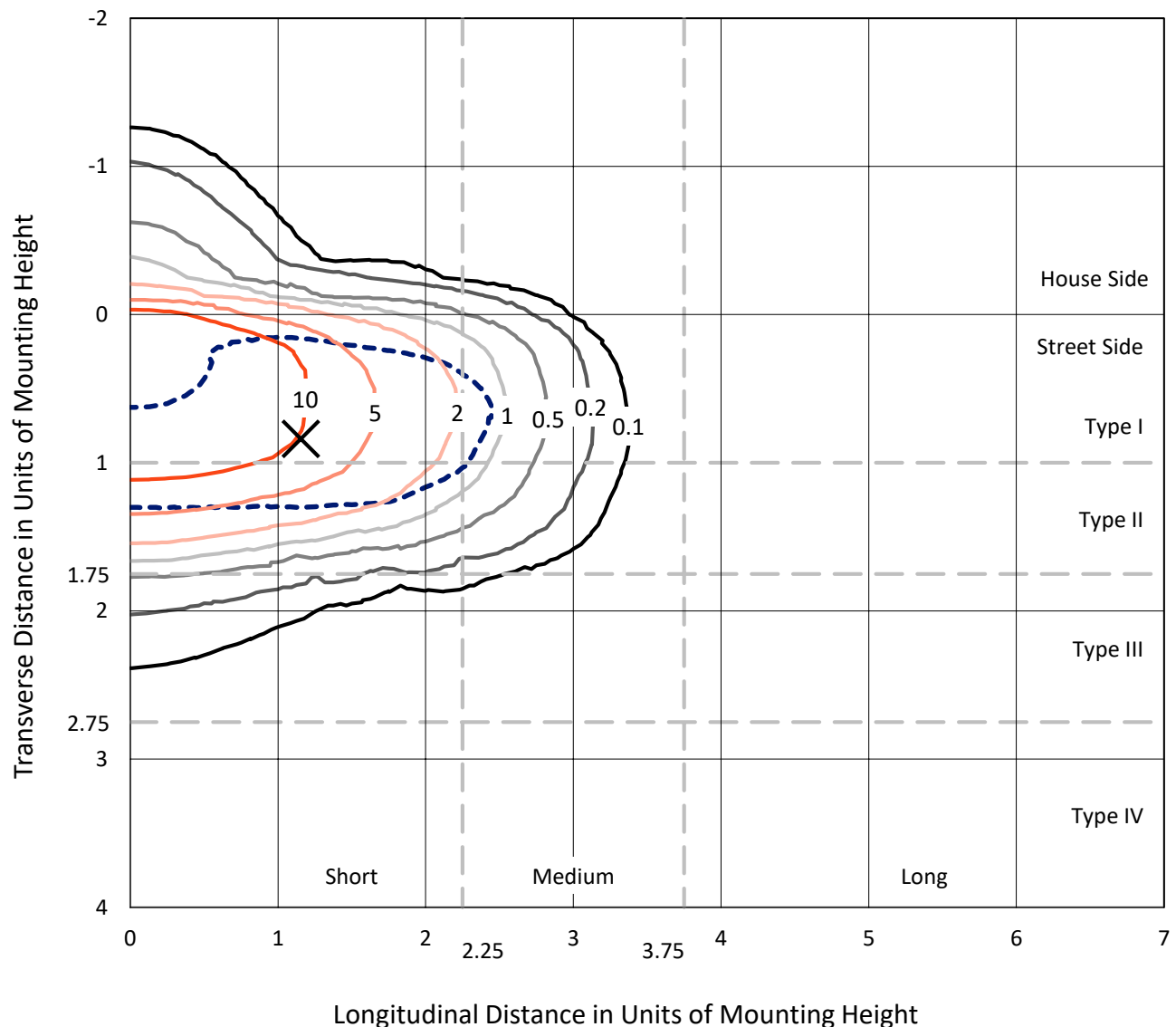
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

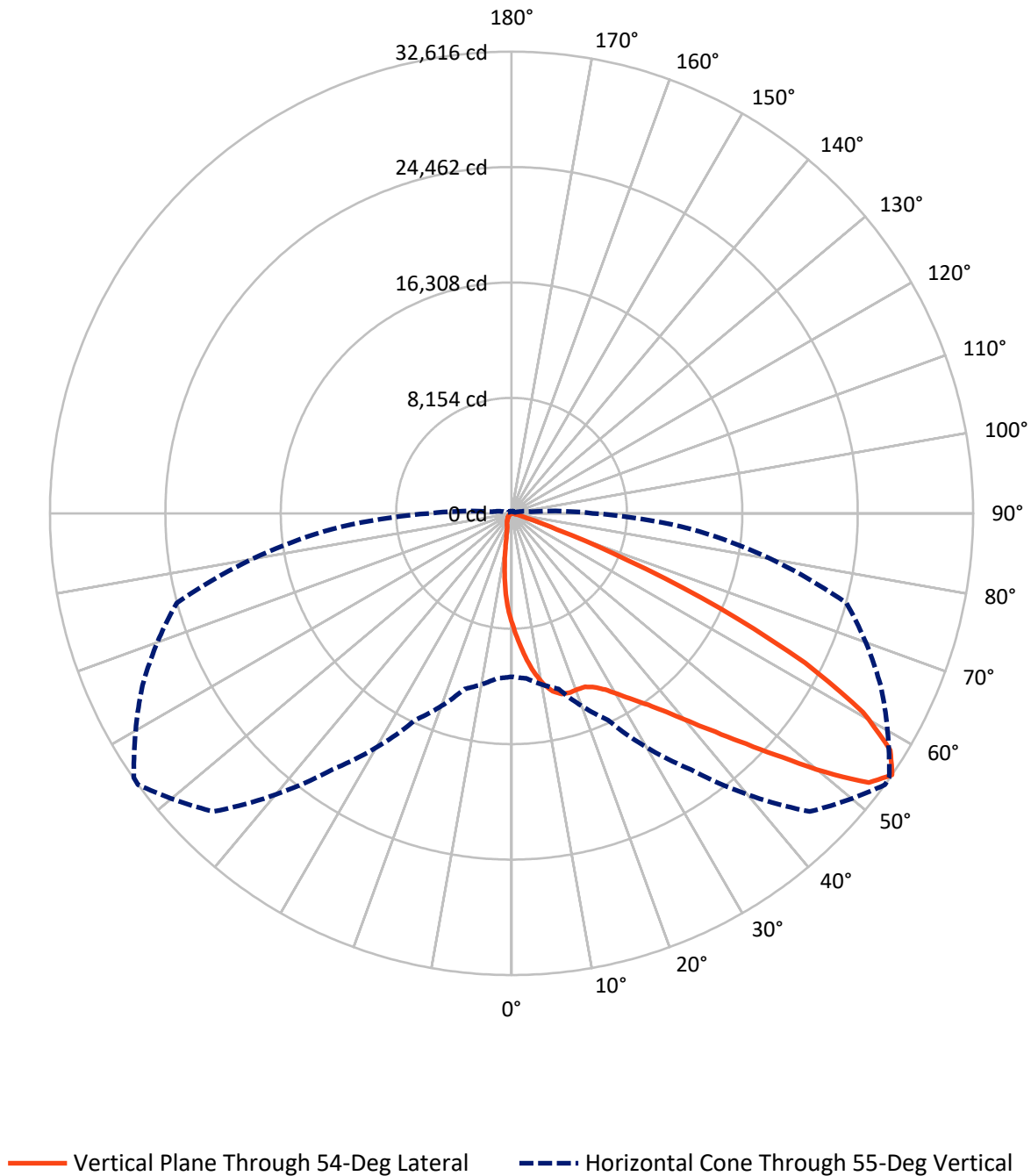
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.0	0.0	1745.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	33230.0	0.0	33230.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	34975.0	0.0	34975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.3	2.1
10°-20°	1978.3	5.7
20°-30°	3377.6	9.7
30°-40°	5420.4	15.5
40°-50°	8661.8	24.8
50°-60°	9281.4	26.5
60°-70°	4765.3	13.6
70°-80°	721.8	2.1
80°-90°	47.0	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°	34975.0	100.0
0°-180°	34975.0	100.0

Coefficient of Utilization



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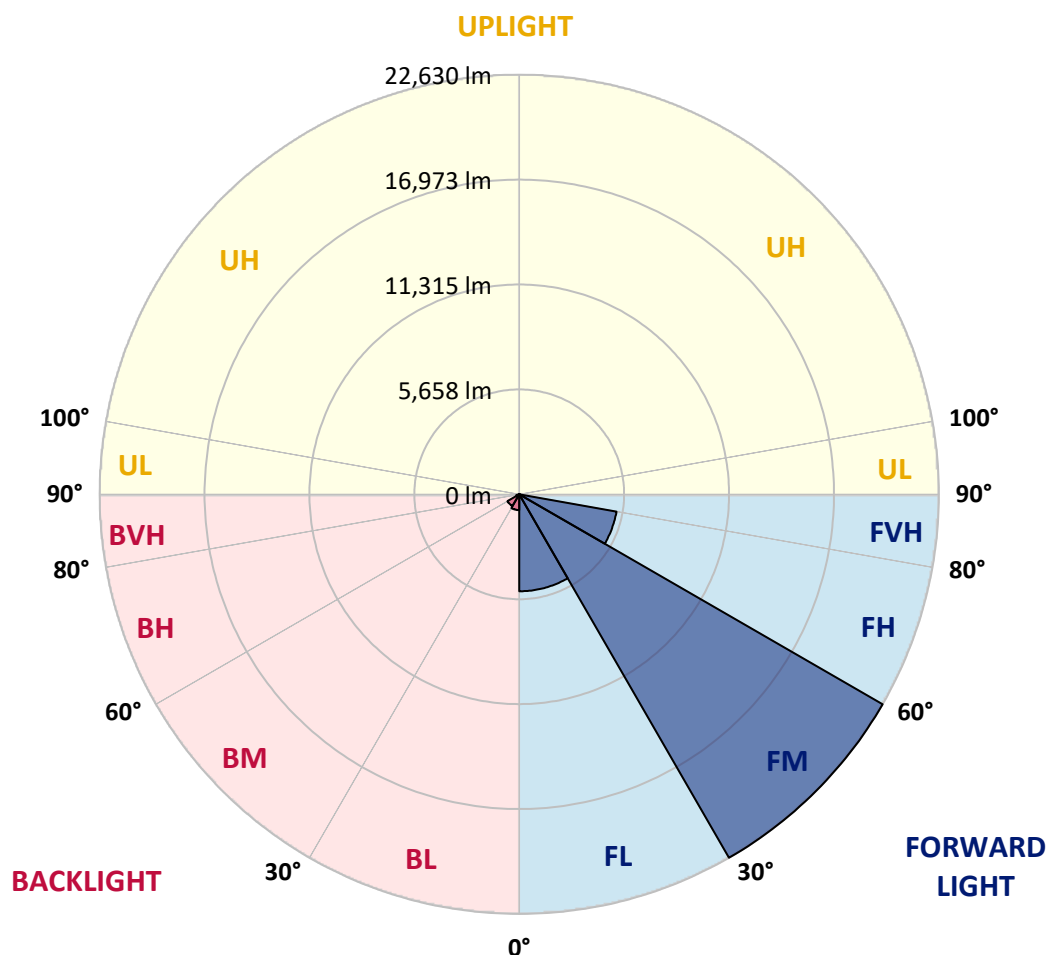
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5228.2	14.9			
FM	(30°-60°)	22630.4	64.7			
FH	(60°-80°)	5326.4	15.2			G3/7500
FVH	(80°-90°)	45.1	0.1			G1/100
BL	(0°-30°)	849.0	2.4	B2/1000		
BM	(30°-60°)	733.3	2.1	B1/1000		
BH	(60°-80°)	160.8	0.5	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0
2.5°	9829.8	9683.3	9687.8	9621.3	9378.1	9187.8	8990.0	8943.1	8635.0	8311.8	8000.7
5°	11529.0	11421.7	11396.1	11267.7	10929.3	10571.4	10187.7	10098.6	9496.0	8834.4	8183.4
7.5°	12402.0	12403.5	12382.4	12335.5	12124.1	11776.7	11308.5	11214.8	10394.7	9402.3	8373.7
10°	12148.2	12205.6	12323.5	12479.0	12640.6	12596.8	12244.9	12160.3	11269.2	10003.5	8585.2
12.5°	11556.2	11563.7	11695.1	11950.4	12415.6	12892.9	12898.9	12870.2	12104.4	10631.8	8817.8
15°	11261.6	11290.3	11338.7	11503.3	11944.3	12708.6	13255.4	13296.2	12870.2	11299.4	9065.5
17.5°	11455.0	11495.7	11455.0	11474.6	11729.9	12417.1	13317.3	13421.5	13539.3	11959.4	9299.6
20°	11979.1	12016.8	11944.3	11864.3	11914.1	12332.5	13273.5	13414.0	14063.4	12545.5	9496.0
22.5°	12685.9	12701.1	12590.8	12459.4	12423.1	12619.5	13309.7	13454.7	14483.3	13075.6	9619.8
25°	13463.8	13477.4	13340.0	13188.9	13102.8	13182.9	13607.3	13716.1	14853.4	13581.6	9690.8
27.5°	14311.2	14323.2	14151.0	13965.3	13865.6	13868.6	14098.2	14214.5	15247.6	14158.6	9748.2
30°	15206.8	15200.8	15042.2	14783.9	14657.0	14654.0	14805.1	14922.9	15818.5	14898.7	9826.7
32.5°	16212.8	16200.7	15975.6	15655.4	15511.9	15533.1	15667.5	15735.5	16526.9	15687.1	9967.2
35°	17537.4	17502.7	17162.8	16765.6	16501.3	16493.7	16607.0	16661.4	17430.2	16641.7	10201.3
37.5°	19256.2	19224.5	18763.8	18186.9	17815.3	17676.4	17810.8	17880.3	18718.5	17866.7	10577.4
40°	20950.9	20919.2	20645.8	20117.2	19544.7	19210.9	19316.7	19390.7	20327.1	19352.9	11051.7
42.5°	22120.0	22147.2	22242.3	22286.1	21749.9	21049.1	21097.4	21174.5	22017.3	20941.9	11593.9
45°	22428.1	22487.0	23024.7	24080.5	24281.4	23734.6	23228.6	23270.9	23734.6	22530.8	12136.2
47.5°	21502.2	21611.0	22648.6	24612.2	26312.9	26699.6	25742.0	25686.1	25382.5	23816.2	12521.3
50°	19398.2	19497.9	20842.2	23746.7	26929.1	29530.1	28753.7	28589.1	26827.9	24585.0	12657.3
52.5°	16353.2	16474.1	17566.1	21021.9	25767.6	30792.8	31605.4	31467.9	27888.2	24645.4	12679.9
55°	11548.6	11695.1	12850.6	16111.6	22086.8	29788.3	32615.8	32575.1	28768.8	24485.3	12728.2
57.5°	6490.2	6596.0	7842.1	10328.2	16176.5	25945.9	31560.1	31830.4	29300.5	24207.4	12800.7
60°	2881.9	2910.6	3555.5	5141.4	9470.3	19828.7	28537.7	28993.9	28844.3	23835.8	12923.1
62.5°	1598.0	1573.8	1573.8	2137.2	4115.9	12275.1	23270.9	24024.6	26897.4	23396.3	12929.1
65°	1252.1	1229.5	1164.5	1173.6	1567.8	5448.1	16114.6	17454.3	23199.9	22107.9	12494.1
67.5°	1061.8	1042.2	977.2	951.6	974.2	1797.4	8854.0	10245.1	17603.9	18759.3	10822.1
70°	897.2	883.6	850.4	818.6	761.2	888.1	3387.9	4333.4	10847.8	12479.0	7387.4
72.5°	722.0	715.9	728.0	700.8	631.4	592.1	1158.5	1403.2	4872.6	5568.9	3043.5
75°	622.3	619.3	625.3	598.1	519.6	412.3	589.1	643.4	1374.5	1362.4	616.2
77.5°	404.8	409.3	518.1	506.0	447.1	274.9	305.1	329.3	416.9	312.7	187.3
80°	258.3	255.3	262.8	419.9	401.8	209.9	152.6	160.1	200.9	154.1	90.6
82.5°	157.1	154.1	172.2	196.4	202.4	146.5	93.6	95.2	125.4	99.7	48.3
85°	13.6	18.1	104.2	96.7	69.5	45.3	45.3	48.3	66.5	58.9	27.2
87.5°	0.0	0.0	18.1	27.2	15.1	16.6	16.6	18.1	25.7	25.7	13.6
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°	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0	7833.0
2.5°	7839.0	7682.0	7364.8	7059.7	6801.4	6552.2	6268.2	5987.3	5855.9	5803.0	5748.6
5°	7852.6	7529.4	6875.4	6216.9	5534.1	4919.4	4395.3	3857.6	3588.7	3470.9	3416.6
7.5°	7870.8	7378.4	6321.1	5215.5	4115.9	3282.1	2554.1	2085.9	1883.5	1851.8	1773.2
10°	7873.8	7195.6	5677.6	4109.8	2759.5	1978.6	1522.5	1280.8	1191.7	1176.6	1150.9
12.5°	7879.8	6979.6	4963.2	3043.5	1839.7	1323.1	1101.1	1021.0	996.9	995.4	995.4
15°	7897.9	6753.1	4221.6	2193.1	1321.6	1048.2	966.7	934.9	925.9	930.4	928.9
17.5°	7897.9	6485.7	3493.6	1634.3	1067.9	942.5	897.2	876.0	873.0	877.5	879.1
20°	7840.5	6161.0	2826.0	1271.8	947.0	874.5	833.7	814.1	806.6	809.6	811.1
22.5°	7703.1	5762.2	2282.2	1052.8	867.0	812.6	768.8	738.6	726.5	728.0	728.0
25°	7488.6	5289.5	1785.3	910.8	802.0	746.1	694.8	660.1	652.5	651.0	654.0
27.5°	7213.7	4766.9	1421.3	802.0	725.0	672.1	620.8	592.1	586.0	587.6	589.1
30°	6943.4	4224.6	1120.7	709.9	638.9	589.1	549.8	536.2	536.2	540.7	542.2
32.5°	6695.7	3703.5	886.6	629.8	561.9	516.6	493.9	492.4	499.9	503.0	504.5
35°	6482.7	3221.7	734.1	567.9	501.5	462.2	454.6	460.7	469.7	475.8	477.3
37.5°	6331.6	2791.2	641.9	516.6	454.6	422.9	421.4	433.5	445.6	459.2	462.2
40°	6268.2	2427.2	578.5	471.2	416.9	392.7	388.2	404.8	427.4	447.1	450.1
42.5°	6215.3	2129.7	524.1	427.4	386.7	351.9	350.4	371.6	398.7	418.4	422.9
45°	6170.0	1891.0	474.3	380.6	347.4	302.1	306.6	333.8	354.9	376.1	380.6
47.5°	6076.4	1694.7	419.9	330.8	287.0	258.3	267.3	291.5	308.1	339.8	344.4
50°	5908.7	1534.6	364.0	270.4	234.1	223.5	237.1	253.7	274.9	302.1	305.1
52.5°	5795.5	1413.7	315.7	226.6	193.3	196.4	209.9	216.0	228.1	238.6	235.6
55°	5730.5	1347.3	276.4	196.4	164.6	173.7	176.7	169.2	163.1	152.6	148.0
57.5°	5723.0	1286.9	246.2	170.7	145.0	149.5	139.0	113.3	92.1	80.1	77.0
60°	5710.9	1212.9	222.0	143.5	128.4	122.3	99.7	61.9	43.8	40.8	40.8
62.5°	5579.5	1098.1	203.9	120.8	108.7	92.1	57.4	28.7	24.2	25.7	25.7
65°	5161.1	938.0	185.8	98.2	86.1	66.5	28.7	16.6	9.1	10.6	10.6
67.5°	4387.7	747.7	166.1	75.5	64.9	42.3	16.6	7.6	0.0	0.0	0.0
70°	2937.8	463.7	140.5	52.9	42.3	25.7	12.1	1.5	0.0	0.0	0.0
72.5°	1126.8	250.7	113.3	31.7	27.2	18.1	7.6	0.0	0.0	0.0	0.0
75°	253.7	164.6	78.5	22.7	19.6	12.1	3.0	0.0	0.0	0.0	0.0
77.5°	96.7	119.3	45.3	15.1	13.6	7.6	0.0	0.0	0.0	0.0	0.0
80°	46.8	71.0	21.1	9.1	7.6	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.2	27.2	9.1	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	13.6	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	4.5	1.5	1.5	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)