

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: P324948

Luminaire Tested: **GAN-SA4A-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324948
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-SA4A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 12229 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

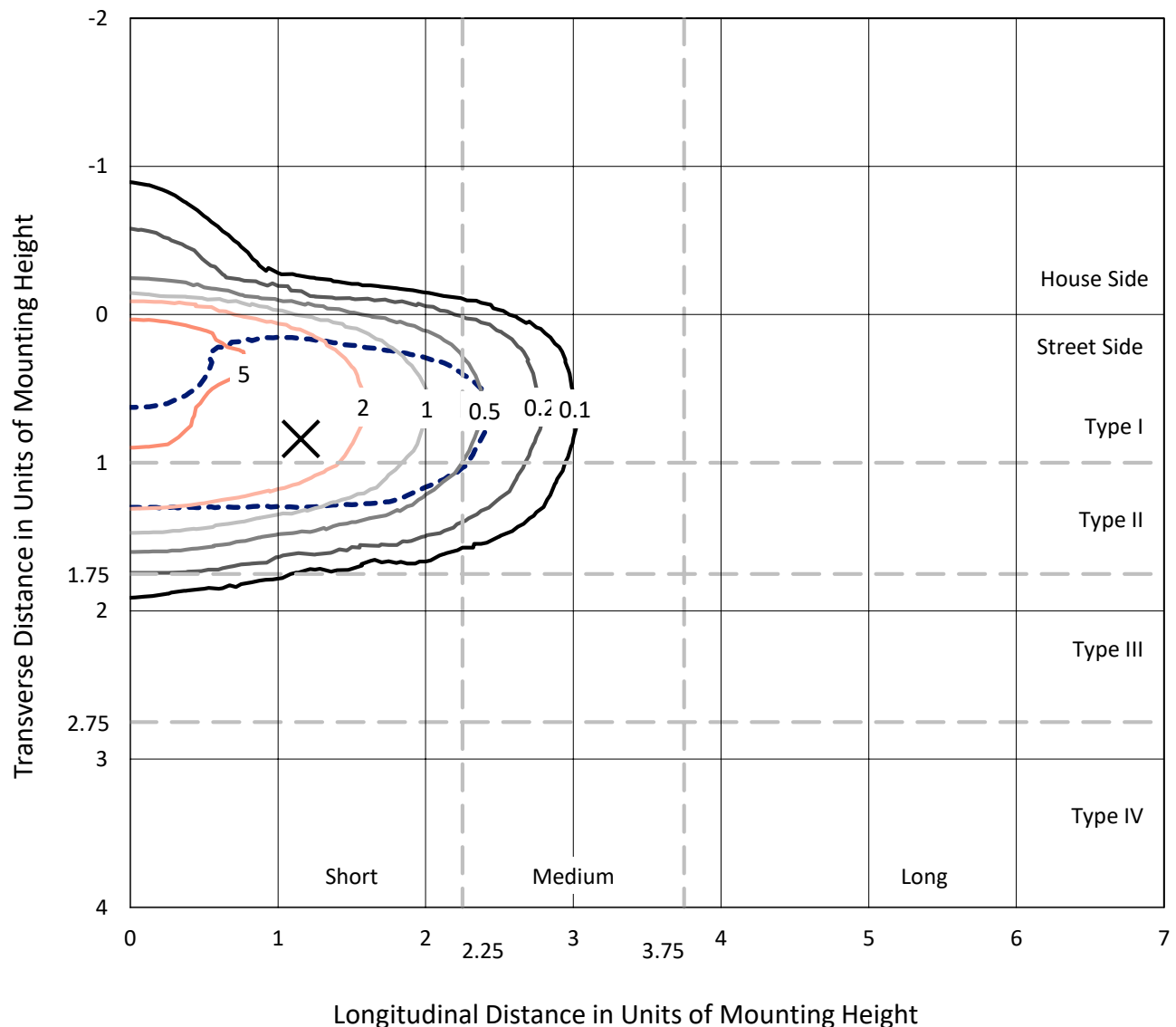
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

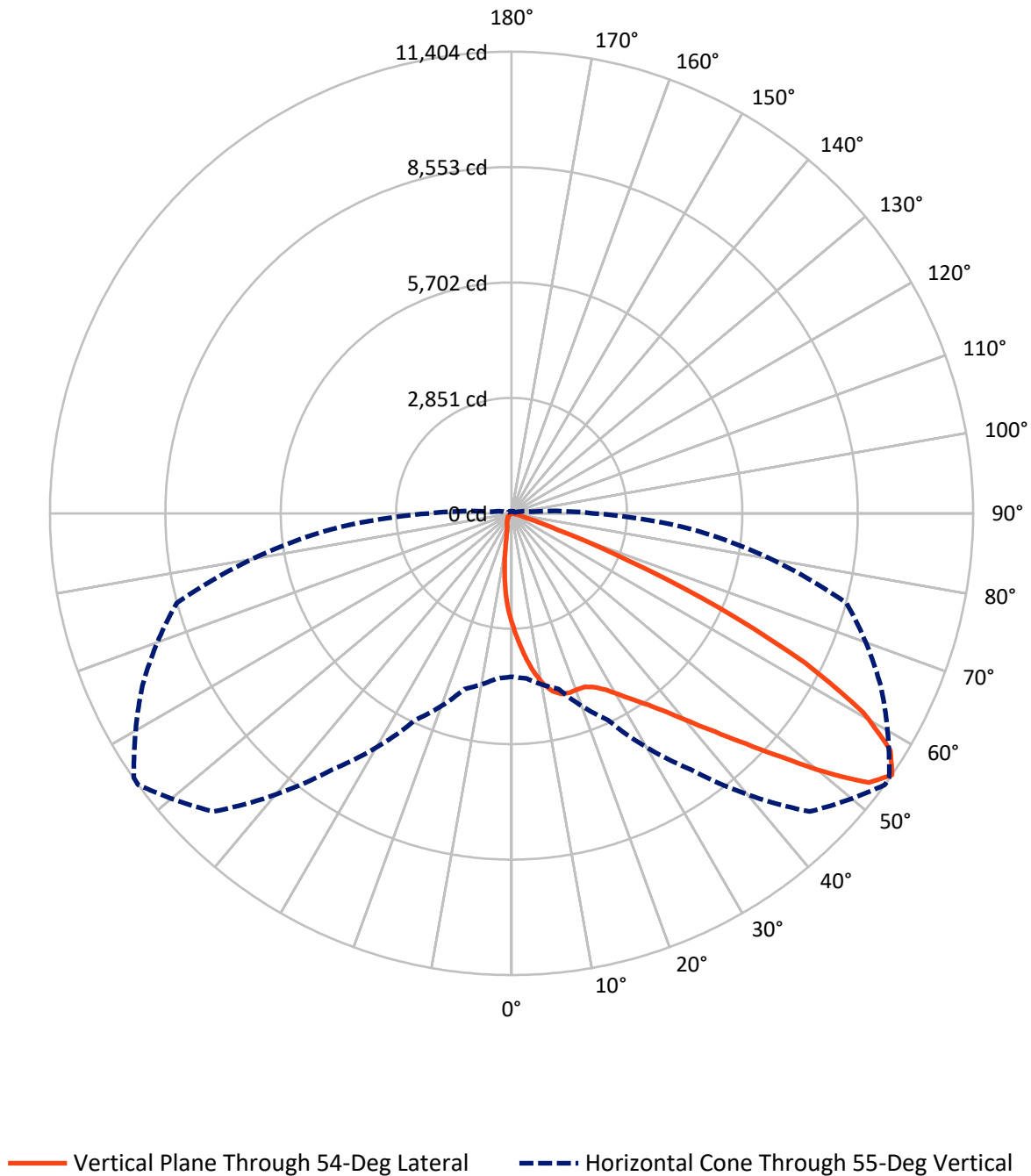
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	610.1	0.0	610.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11618.9	0.0	11618.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	12229.0	0.0	12229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	2.1
10°-20°	691.7	5.7
20°-30°	1181.0	9.7
30°-40°	1895.2	15.5
40°-50°	3028.6	24.8
50°-60°	3245.2	26.5
60°-70°	1666.2	13.6
70°-80°	252.4	2.1
80°-90°	16.4	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°	12229.0	100.0
0°-180°	12229.0	100.0

Coefficient of Utilization



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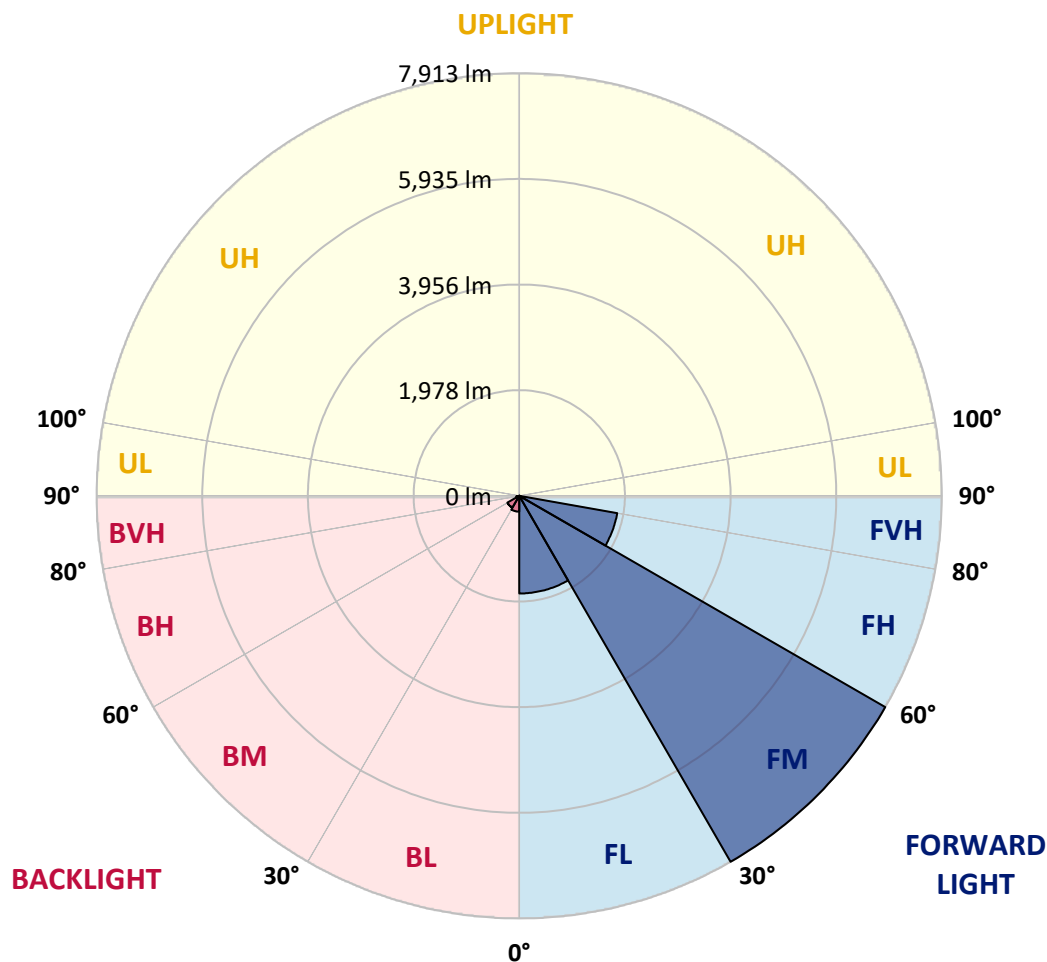
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.0	14.9			
FM	(30°-60°)	7912.7	64.7			
FH	(60°-80°)	1862.4	15.2			G2/5000
FVH	(80°-90°)	15.8	0.1			G1/100
BL	(0°-30°)	296.9	2.4	B1/500		
BM	(30°-60°)	256.4	2.1	B1/1000		
BH	(60°-80°)	56.2	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	3437.0	3385.7	3387.3	3364.1	3279.1	3212.5	3143.3	3127.0	3019.2	2906.2	2797.4
5°	4031.1	3993.6	3984.6	3939.7	3821.4	3696.3	3562.1	3531.0	3320.3	3088.9	2861.3
7.5°	4336.4	4336.9	4329.5	4313.1	4239.2	4117.7	3954.0	3921.3	3634.5	3287.5	2927.9
10°	4247.6	4267.7	4308.9	4363.3	4419.8	4404.5	4281.4	4251.9	3940.3	3497.7	3001.8
12.5°	4040.6	4043.2	4089.2	4178.4	4341.1	4508.0	4510.1	4500.1	4232.3	3717.4	3083.1
15°	3937.6	3947.7	3964.6	4022.1	4176.3	4443.6	4634.7	4649.0	4500.1	3950.8	3169.7
17.5°	4005.2	4019.5	4005.2	4012.1	4101.3	4341.6	4656.4	4692.8	4734.0	4181.6	3251.6
20°	4188.5	4201.7	4176.3	4148.3	4165.8	4312.1	4641.1	4690.2	4917.3	4386.5	3320.3
22.5°	4435.6	4440.9	4402.4	4356.4	4343.7	4412.4	4653.8	4704.4	5064.1	4571.9	3363.6
25°	4707.6	4712.4	4664.3	4611.5	4581.4	4609.4	4757.8	4795.8	5193.5	4748.8	3388.4
27.5°	5003.9	5008.1	4947.9	4883.0	4848.1	4849.2	4929.4	4970.1	5331.3	4950.6	3408.5
30°	5317.1	5315.0	5259.5	5169.2	5124.8	5123.8	5176.6	5217.8	5531.0	5209.3	3435.9
32.5°	5668.8	5664.6	5585.9	5473.9	5423.7	5431.1	5478.1	5501.9	5778.6	5485.0	3485.0
35°	6131.9	6119.8	6001.0	5862.1	5769.7	5767.0	5806.6	5825.6	6094.4	5818.8	3566.9
37.5°	6732.9	6721.8	6560.8	6359.0	6229.1	6180.5	6227.5	6251.8	6544.9	6247.1	3698.4
40°	7325.5	7314.4	7218.8	7034.0	6833.8	6717.1	6754.1	6779.9	7107.4	6766.7	3864.2
42.5°	7734.2	7743.8	7777.0	7792.3	7604.9	7359.8	7376.7	7403.6	7698.3	7322.3	4053.8
45°	7842.0	7862.6	8050.6	8419.7	8490.0	8298.8	8121.9	8136.7	8298.8	7877.9	4243.4
47.5°	7518.2	7556.3	7919.1	8605.6	9200.3	9335.5	9000.7	8981.1	8875.0	8327.3	4378.1
50°	6782.6	6817.4	7287.5	8303.0	9415.8	10325.2	10053.7	9996.2	9380.4	8596.1	4425.6
52.5°	5717.9	5760.2	6142.0	7350.3	9009.6	10766.7	11050.8	11002.8	9751.1	8617.3	4433.5
55°	4038.0	4089.2	4493.2	5633.4	7722.6	10415.5	11404.1	11389.9	10059.0	8561.3	4450.4
57.5°	2269.3	2306.3	2742.0	3611.3	5656.1	9072.0	11035.0	11129.5	10244.9	8464.1	4475.8
60°	1007.6	1017.7	1243.2	1797.7	3311.3	6933.1	9978.2	10137.7	10085.4	8334.2	4518.6
62.5°	558.7	550.3	550.3	747.3	1439.1	4292.0	8136.7	8400.2	9404.7	8180.5	4520.7
65°	437.8	429.9	407.2	410.3	548.2	1904.9	5634.5	6102.9	8111.8	7730.0	4368.6
67.5°	371.3	364.4	341.7	332.7	340.6	628.5	3095.8	3582.2	6155.2	6559.2	3783.9
70°	313.7	308.9	297.3	286.2	266.2	310.5	1184.6	1515.2	3792.9	4363.3	2583.0
72.5°	252.4	250.3	254.6	245.0	220.8	207.0	405.1	490.6	1703.7	1947.2	1064.2
75°	217.6	216.5	218.6	209.1	181.7	144.2	206.0	225.0	480.6	476.4	215.5
77.5°	141.5	143.1	181.1	176.9	156.3	96.1	106.7	115.1	145.8	109.3	65.5
80°	90.3	89.3	91.9	146.8	140.5	73.4	53.3	56.0	70.2	53.9	31.7
82.5°	54.9	53.9	60.2	68.7	70.8	51.2	32.7	33.3	43.8	34.9	16.9
85°	4.8	6.3	36.4	33.8	24.3	15.8	15.8	16.9	23.2	20.6	9.5
87.5°	0.0	0.0	6.3	9.5	5.3	5.8	5.8	6.3	9.0	9.0	4.8
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°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	2740.9	2686.0	2575.1	2468.4	2378.1	2291.0	2191.7	2093.4	2047.5	2029.0	2010.0
5°	2745.7	2632.7	2404.0	2173.7	1935.0	1720.1	1536.8	1348.8	1254.8	1213.6	1194.6
7.5°	2752.0	2579.8	2210.2	1823.6	1439.1	1147.6	893.0	729.3	658.6	647.5	620.0
10°	2753.1	2515.9	1985.2	1437.0	964.9	691.8	532.3	447.8	416.7	411.4	402.4
12.5°	2755.2	2440.4	1735.4	1064.2	643.2	462.6	385.0	357.0	348.6	348.0	348.0
15°	2761.5	2361.2	1476.1	766.8	462.1	366.5	338.0	326.9	323.7	325.3	324.8
17.5°	2761.5	2267.7	1221.5	571.4	373.4	329.5	313.7	306.3	305.3	306.8	307.4
20°	2741.4	2154.2	988.1	444.7	331.1	305.8	291.5	284.7	282.0	283.1	283.6
22.5°	2693.4	2014.8	798.0	368.1	303.1	284.1	268.8	258.2	254.0	254.6	254.6
25°	2618.4	1849.5	624.2	318.5	280.4	260.9	242.9	230.8	228.1	227.6	228.7
27.5°	2522.3	1666.7	497.0	280.4	253.5	235.0	217.1	207.0	204.9	205.4	206.0
30°	2427.7	1477.1	391.9	248.2	223.4	206.0	192.2	187.5	187.5	189.1	189.6
32.5°	2341.1	1294.9	310.0	220.2	196.5	180.6	172.7	172.2	174.8	175.9	176.4
35°	2266.7	1126.5	256.7	198.6	175.3	161.6	159.0	161.1	164.2	166.4	166.9
37.5°	2213.9	976.0	224.4	180.6	159.0	147.9	147.3	151.6	155.8	160.5	161.6
40°	2191.7	848.7	202.3	164.8	145.8	137.3	135.7	141.5	149.5	156.3	157.4
42.5°	2173.2	744.6	183.3	149.5	135.2	123.1	122.5	129.9	139.4	146.3	147.9
45°	2157.4	661.2	165.8	133.1	121.5	105.6	107.2	116.7	124.1	131.5	133.1
47.5°	2124.6	592.5	146.8	115.7	100.3	90.3	93.5	101.9	107.7	118.8	120.4
50°	2066.0	536.6	127.3	94.5	81.9	78.2	82.9	88.7	96.1	105.6	106.7
52.5°	2026.4	494.3	110.4	79.2	67.6	68.7	73.4	75.5	79.7	83.4	82.4
55°	2003.7	471.1	96.6	68.7	57.6	60.7	61.8	59.1	57.0	53.3	51.8
57.5°	2001.0	450.0	86.1	59.7	50.7	52.3	48.6	39.6	32.2	28.0	26.9
60°	1996.8	424.1	77.6	50.2	44.9	42.8	34.9	21.7	15.3	14.3	14.3
62.5°	1950.9	383.9	71.3	42.2	38.0	32.2	20.1	10.0	8.4	9.0	9.0
65°	1804.6	328.0	65.0	34.3	30.1	23.2	10.0	5.8	3.2	3.7	3.7
67.5°	1534.2	261.4	58.1	26.4	22.7	14.8	5.8	2.6	0.0	0.0	0.0
70°	1027.2	162.1	49.1	18.5	14.8	9.0	4.2	0.5	0.0	0.0	0.0
72.5°	394.0	87.7	39.6	11.1	9.5	6.3	2.6	0.0	0.0	0.0	0.0
75°	88.7	57.6	27.5	7.9	6.9	4.2	1.1	0.0	0.0	0.0	0.0
77.5°	33.8	41.7	15.8	5.3	4.8	2.6	0.0	0.0	0.0	0.0	0.0
80°	16.4	24.8	7.4	3.2	2.6	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	9.5	3.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	4.8	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.6	0.5	0.5	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)