

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: P318729

Luminaire Tested: **GAN-SA5C-740-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35564 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

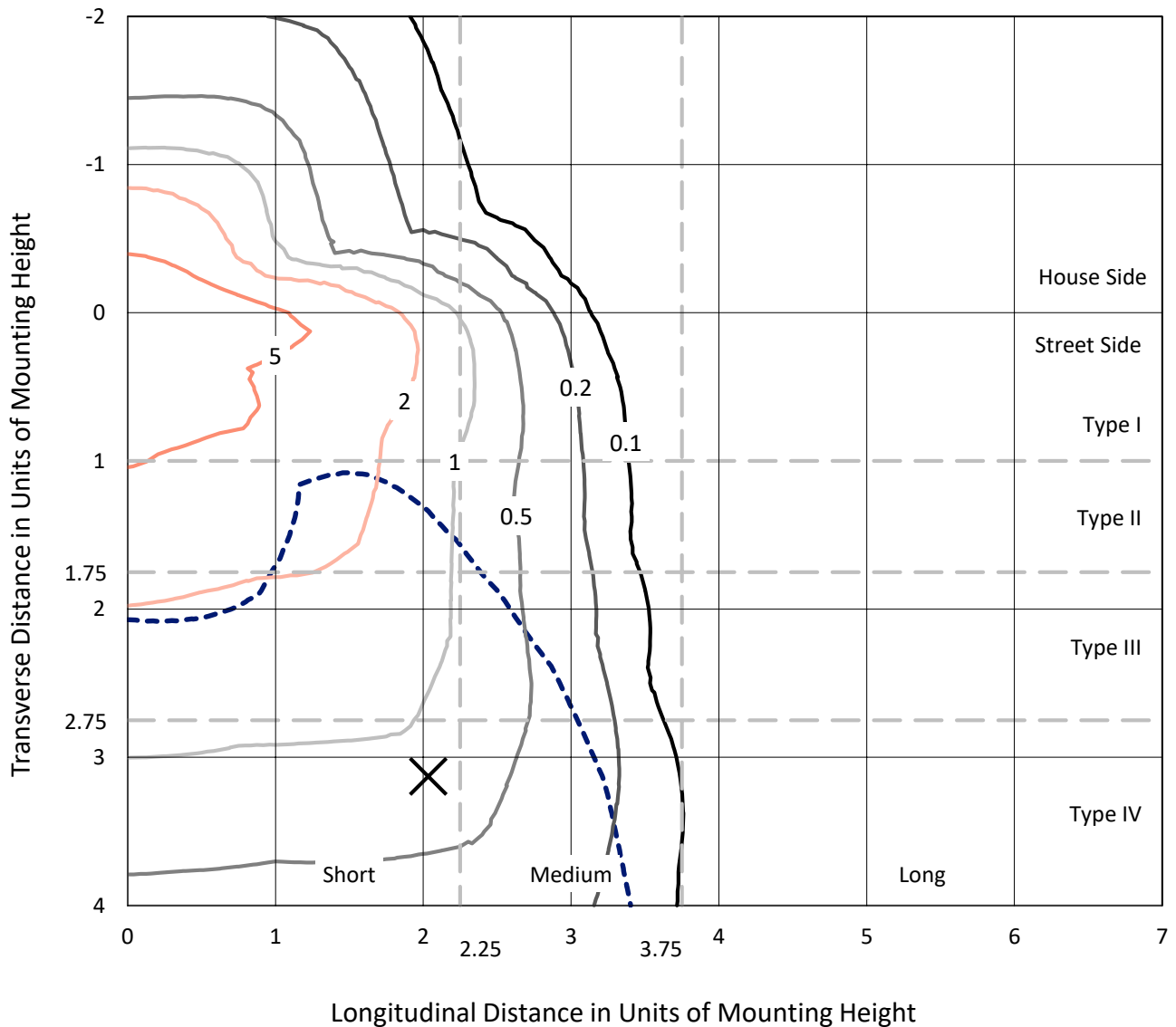
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

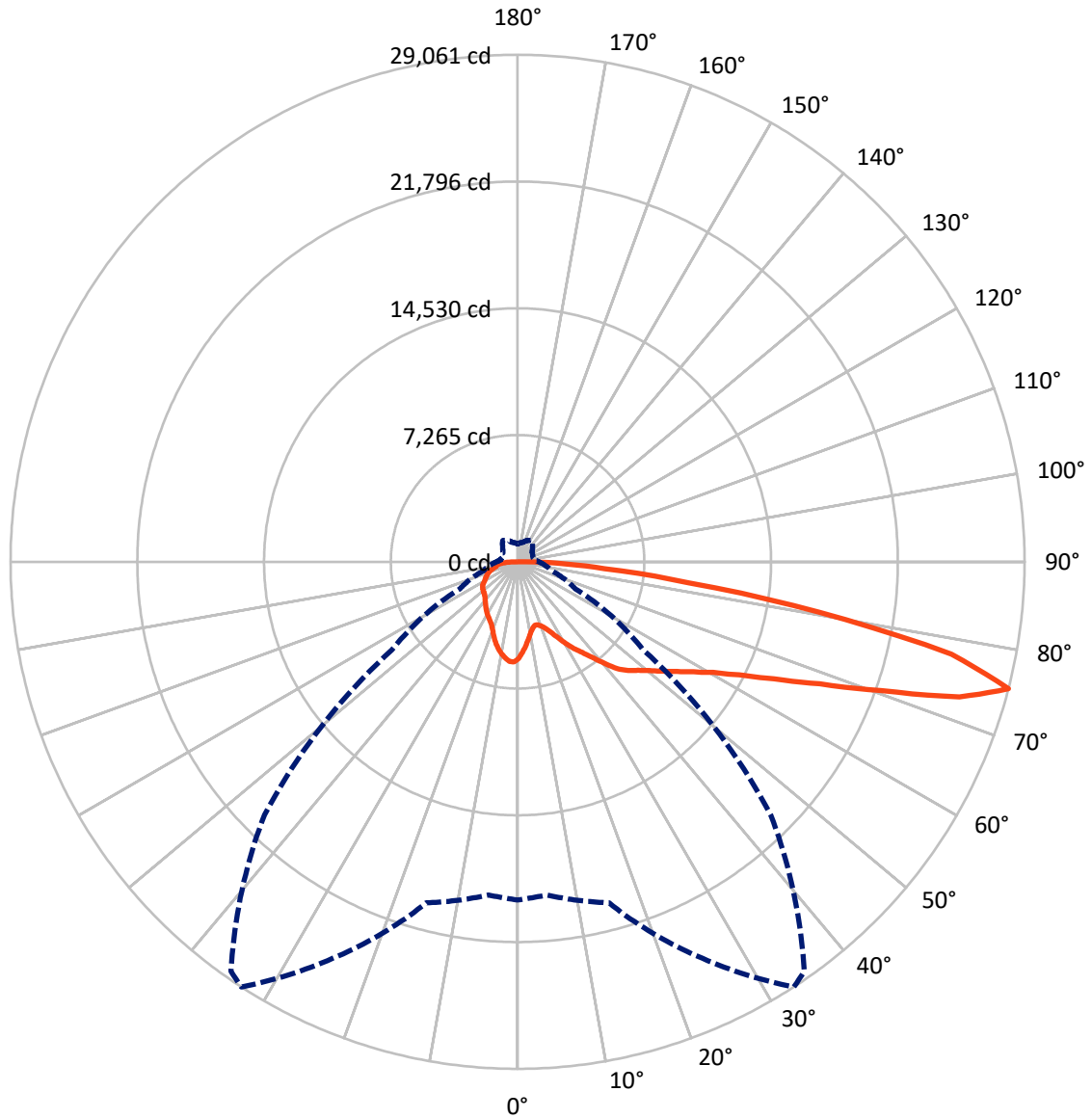
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7636.5	0.0	7636.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	27927.5	0.0	27927.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	35564.0	0.0	35564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.7	1.4
10°-20°	1361.6	3.8
20°-30°	2223.7	6.3
30°-40°	3311.6	9.3
40°-50°	4749.7	13.4
50°-60°	6520.6	18.3
60°-70°	8163.6	23.0
70°-80°	7385.2	20.8
80°-90°	1345.3	3.8
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°	35564.0	100.0
0°-180°	35564.0	100.0

**Coefficient of Utilization**



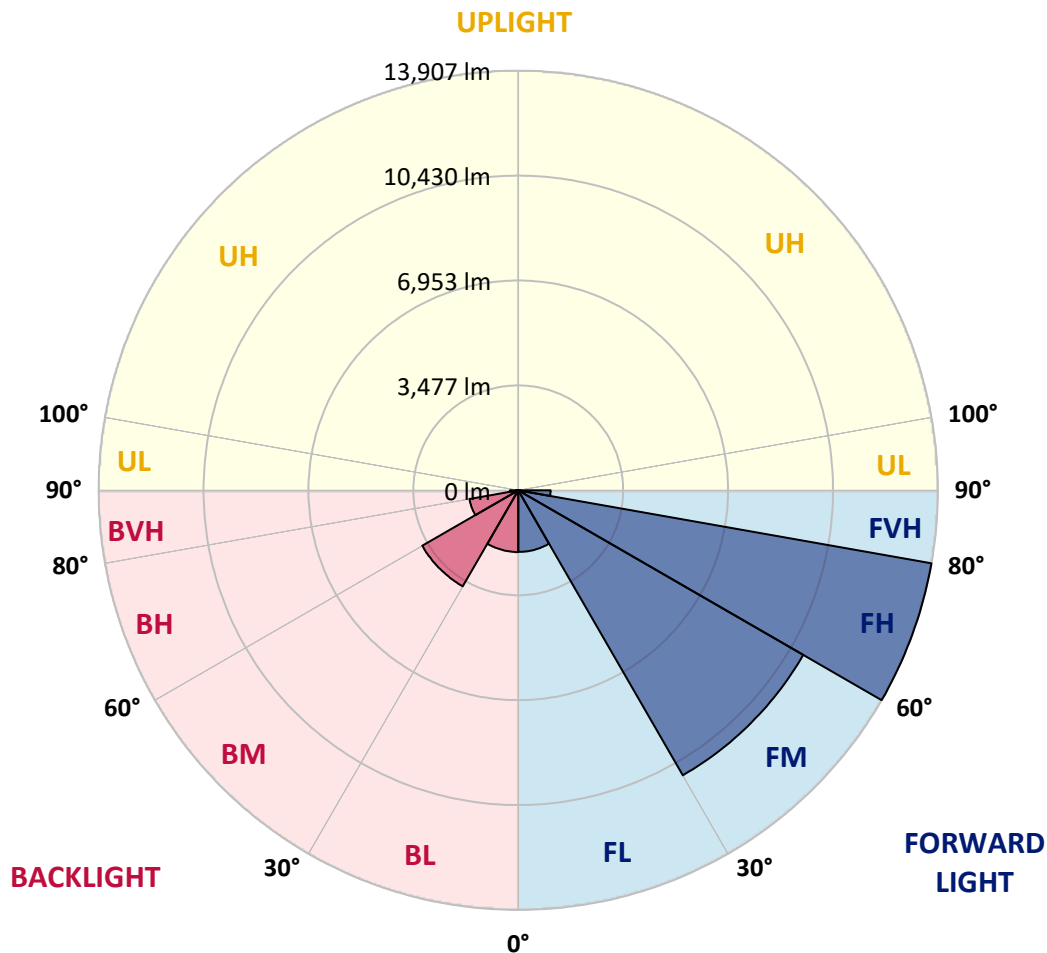
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.6	5.7			
FM (30°-60°)	10906.7	30.7			
FH (60°-80°)	13906.8	39.1			G5
FVH (80°-90°)	1071.4	3.0			G5
BL (0°-30°)	2045.4	5.8	B3/2500		
BM (30°-60°)	3675.2	10.3	B3/5000		
BH (60°-80°)	1642.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	273.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9
2.5°	5162.1	5142.4	5179.3	5184.2	5216.1	5228.4	5272.6	5341.4	5397.9	5463.0	5522.0
5°	4694.0	4680.5	4732.1	4768.9	4839.0	4868.4	4972.9	5119.1	5249.3	5396.7	5530.6
7.5°	4249.3	4241.9	4299.7	4383.2	4464.3	4504.8	4685.4	4897.9	5115.4	5353.7	5558.9
10°	3874.6	3872.2	3927.4	4009.7	4128.9	4174.4	4407.8	4687.9	4992.5	5320.5	5606.8
12.5°	3664.5	3673.1	3698.9	3767.7	3878.3	3923.8	4183.0	4512.2	4889.3	5309.5	5676.8
15°	3716.1	3729.7	3685.4	3683.0	3761.6	3797.2	4040.5	4386.9	4815.6	5327.9	5778.7
17.5°	3936.0	3938.5	3821.8	3748.1	3796.0	3814.4	3996.2	4315.6	4772.6	5369.7	5906.5
20°	4245.6	4239.5	4033.1	3910.2	3936.0	3941.0	4058.9	4316.9	4768.9	5442.1	6072.4
22.5°	4655.9	4610.5	4332.8	4165.8	4159.6	4152.2	4219.8	4407.8	4823.0	5560.1	6270.1
25°	5191.5	5148.5	4766.5	4538.0	4488.9	4470.4	4480.3	4601.9	4929.9	5686.6	6491.3
27.5°	5787.3	5712.4	5343.9	5020.8	4918.8	4893.0	4834.1	4875.8	5046.6	5808.2	6754.2
30°	6286.1	6245.6	5923.7	5540.4	5420.0	5383.2	5228.4	5182.9	5214.9	5974.1	7085.8
32.5°	6565.0	6537.9	6342.6	6033.0	5921.3	5869.7	5651.0	5560.1	5485.1	6235.7	7535.5
35°	6902.8	6885.6	6767.7	6542.9	6377.0	6323.0	6153.4	6058.8	5866.0	6595.7	8116.5
37.5°	7332.8	7314.3	7316.8	7135.0	6937.2	6886.8	6775.0	6675.5	6359.8	7068.6	8748.0
40°	7819.2	7783.6	7770.1	7761.5	7636.2	7608.0	7549.0	7413.9	6979.0	7633.7	9370.8
42.5°	8551.4	8424.9	8154.6	8256.6	8380.7	8365.9	8413.8	8219.7	7666.9	8302.0	9978.9
45°	9257.8	9050.2	8583.4	8605.5	8877.0	8959.3	9318.0	9180.4	8412.6	9034.2	10607.9
47.5°	9579.7	9422.4	9025.6	9026.8	9295.9	9466.6	10252.9	10154.6	9196.4	9865.9	11375.7
50°	9939.6	9782.4	9426.1	9560.0	9794.6	9976.5	11155.8	11105.4	9942.1	10776.2	12295.8
52.5°	10332.7	10066.1	9840.1	10079.6	10408.9	10620.2	12059.9	11922.4	10626.3	11692.6	13353.5
55°	10337.6	10265.1	10437.1	10612.8	11105.4	11364.6	13007.1	12643.5	11184.0	12593.1	14214.7
57.5°	10926.1	10808.1	11173.0	11254.1	11897.8	12190.2	13949.3	13271.2	11751.6	13283.5	14679.1
60°	11704.9	11604.2	11902.7	12116.5	12878.1	13268.8	14955.5	13916.2	12197.5	13804.4	14656.9
62.5°	13050.1	12935.8	12932.2	13231.9	14257.7	14712.2	16084.4	14548.8	12374.4	13907.6	14031.6
65°	15019.3	14837.5	14494.8	14637.3	16163.1	16616.4	17346.1	15007.1	12141.0	13354.8	12421.1
67.5°	16935.8	16929.6	16508.3	16800.6	18679.0	19042.6	18783.4	15052.5	11412.5	11429.7	9563.7
70°	18846.0	18870.6	18799.4	19816.5	22078.2	22456.5	20314.1	14442.0	9775.0	8254.1	5729.6
72.5°	20359.5	20353.4	20712.1	23334.9	26489.6	26404.9	21604.0	12591.9	7018.3	4455.7	2738.3
75°	19379.2	19165.4	20234.2	25076.9	29060.8	28646.8	20506.9	8783.6	3642.4	2028.2	1474.2
77.5°	12639.8	12842.5	14411.2	20715.8	25419.6	24915.9	15045.1	4098.2	1716.2	1330.4	1068.8
80°	4577.3	4791.1	6748.0	11734.4	17513.1	17430.8	7408.9	1684.2	1160.9	1004.9	778.9
82.5°	1574.9	1653.5	2662.1	5211.2	9888.0	10256.5	2787.4	957.0	844.0	712.5	533.2
85°	617.9	707.6	1217.4	2507.3	4987.6	5024.5	1129.0	572.5	587.2	466.8	292.4
87.5°	234.6	285.0	582.3	1164.6	2277.6	2092.1	404.2	272.7	334.1	277.6	138.8
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°	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9	5558.9
2.5°	5567.5	5593.2	5647.3	5684.2	5723.5	5734.5	5739.4	5749.3	5759.1	5755.4	5756.6
5°	5601.8	5652.2	5739.4	5776.3	5793.5	5773.8	5735.8	5705.0	5682.9	5670.6	5667.0
7.5°	5658.4	5729.6	5823.0	5816.8	5777.5	5690.3	5592.0	5518.3	5456.9	5434.8	5422.5
10°	5733.3	5816.8	5881.9	5811.9	5697.7	5546.6	5399.2	5284.9	5192.8	5157.1	5151.0
12.5°	5829.1	5913.9	5926.2	5777.5	5588.3	5382.0	5181.7	5030.6	4893.0	4848.8	4839.0
15°	5953.2	6033.0	5956.9	5717.3	5453.2	5175.6	4916.4	4711.2	4566.2	4512.2	4492.5
17.5°	6083.4	6159.6	5963.0	5617.8	5276.3	4931.1	4605.6	4395.5	4229.6	4167.0	4159.6
20°	6239.4	6273.8	5937.2	5475.3	5033.1	4614.2	4271.4	4073.6	3985.2	3941.0	3936.0
22.5°	6432.3	6395.4	5878.3	5282.4	4724.7	4248.1	3969.2	3877.1	3855.0	3845.1	3848.8
25°	6636.2	6523.2	5791.0	5030.6	4335.3	3882.0	3748.1	3773.9	3803.4	3799.7	3799.7
27.5°	6861.0	6653.4	5657.1	4696.5	3904.1	3582.2	3598.2	3692.8	3737.0	3735.8	3734.6
30°	7149.7	6800.8	5486.4	4294.8	3501.2	3370.9	3468.0	3583.5	3643.7	3641.2	3642.4
32.5°	7504.8	6963.0	5254.2	3846.4	3210.0	3214.9	3326.7	3441.0	3511.0	3504.8	3506.1
35°	7920.0	7144.8	4939.7	3404.1	3017.1	3090.8	3179.3	3259.1	3325.5	3316.9	3308.3
37.5°	8372.1	7322.9	4522.0	3008.5	2859.9	2975.4	3049.1	3062.6	3093.3	3071.2	3055.2
40°	8802.0	7459.3	3983.9	2684.2	2701.4	2877.1	2925.0	2870.9	2815.7	2808.3	2786.2
42.5°	9176.7	7504.8	3439.7	2425.0	2534.3	2773.9	2803.4	2690.4	2590.9	2544.2	2524.5
45°	9572.3	7520.7	2932.4	2207.6	2373.4	2681.8	2713.7	2562.6	2422.6	2321.8	2288.7
47.5°	10089.5	7636.2	2538.0	2046.6	2250.6	2620.3	2665.8	2460.6	2278.8	2135.1	2104.4
50°	10766.4	7864.7	2217.4	1923.8	2170.7	2579.8	2631.4	2361.1	2160.9	1987.7	1957.0
52.5°	11518.2	8074.8	1958.2	1824.3	2093.3	2508.5	2587.2	2289.9	2050.3	1851.3	1818.1
55°	12044.0	7913.8	1749.3	1721.1	1992.6	2406.6	2525.7	2229.7	1891.9	1718.6	1689.2
57.5°	12144.7	7363.5	1590.9	1614.2	1871.0	2278.8	2431.2	2095.8	1805.9	1660.9	1630.2
60°	11869.5	6596.9	1472.9	1515.9	1740.8	2117.9	2254.3	2001.2	1723.6	1599.5	1573.7
62.5°	11177.9	5811.9	1385.7	1427.5	1619.1	1954.5	2143.7	1901.7	1640.0	1529.5	1503.7
65°	9781.1	4879.5	1302.2	1348.9	1506.1	1813.2	2044.2	1809.5	1557.7	1472.9	1448.4
67.5°	7383.1	3654.7	1223.6	1265.3	1405.4	1690.4	1936.1	1718.6	1477.9	1423.8	1394.3
70°	4347.6	2288.7	1133.9	1178.1	1299.7	1562.6	1820.6	1619.1	1378.3	1353.8	1315.7
72.5°	2023.3	1377.1	1031.9	1074.9	1167.1	1391.9	1672.0	1488.9	1260.4	1206.4	1154.8
75°	1207.6	1007.4	911.5	949.6	1014.7	1210.0	1485.2	1356.2	1148.6	1077.4	1023.3
77.5°	902.9	770.3	778.9	819.4	872.2	1058.9	1315.7	1251.8	1062.6	1007.4	970.5
80°	649.9	584.8	635.1	679.3	734.6	963.1	1260.4	1157.2	960.7	887.0	852.6
82.5°	433.7	420.1	477.9	523.3	577.4	842.7	1184.3	1013.5	820.6	727.3	651.1
85°	239.6	253.1	321.9	341.5	388.2	593.4	970.5	814.5	617.9	497.5	475.4
87.5°	99.5	116.7	173.2	167.1	206.4	353.8	638.8	491.4	393.1	293.6	228.5
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)