

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: McGRAW-EDISON

Report Number: P455465

Luminaire Tested: **GALN-SA6C-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 30579 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

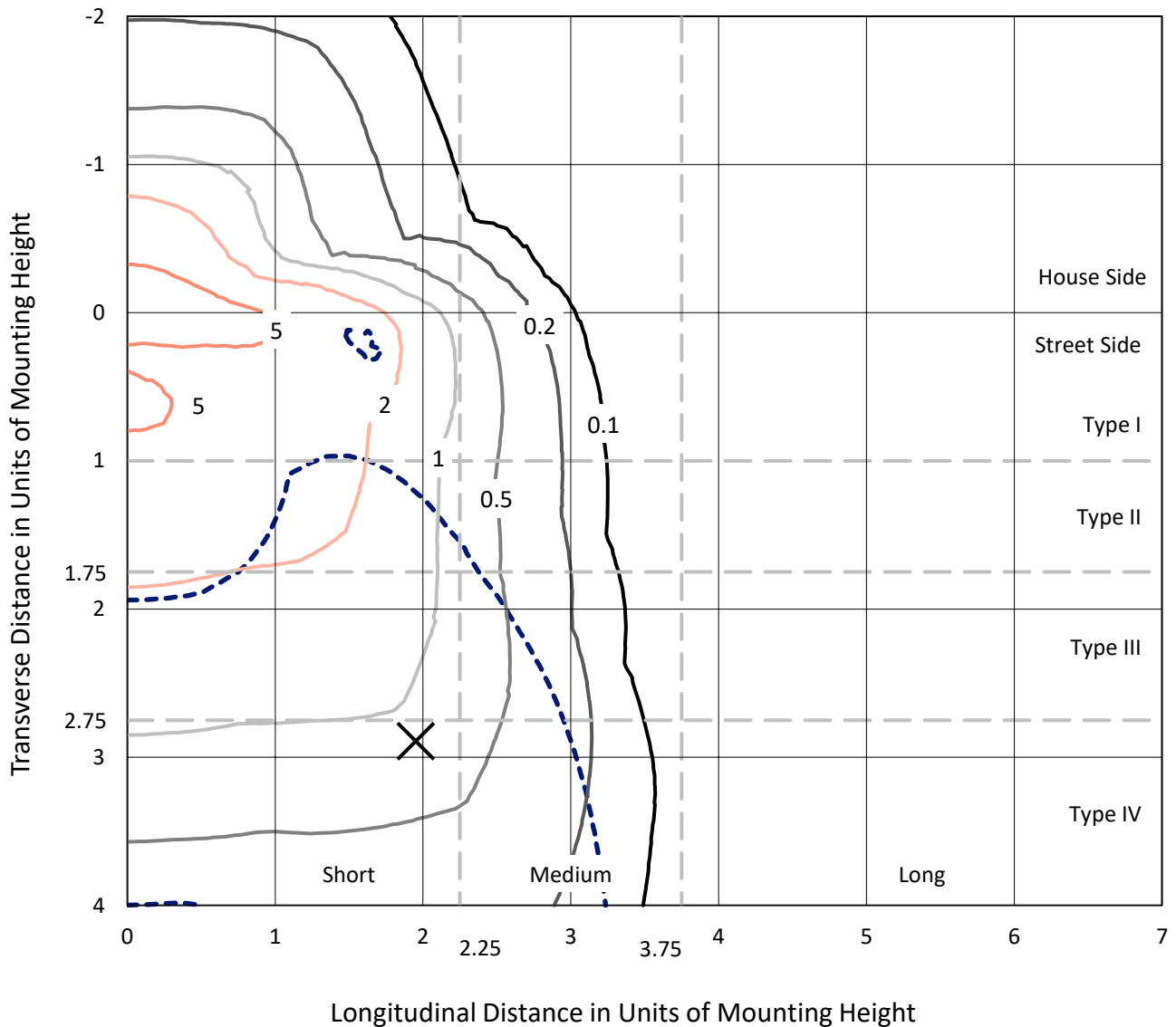
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

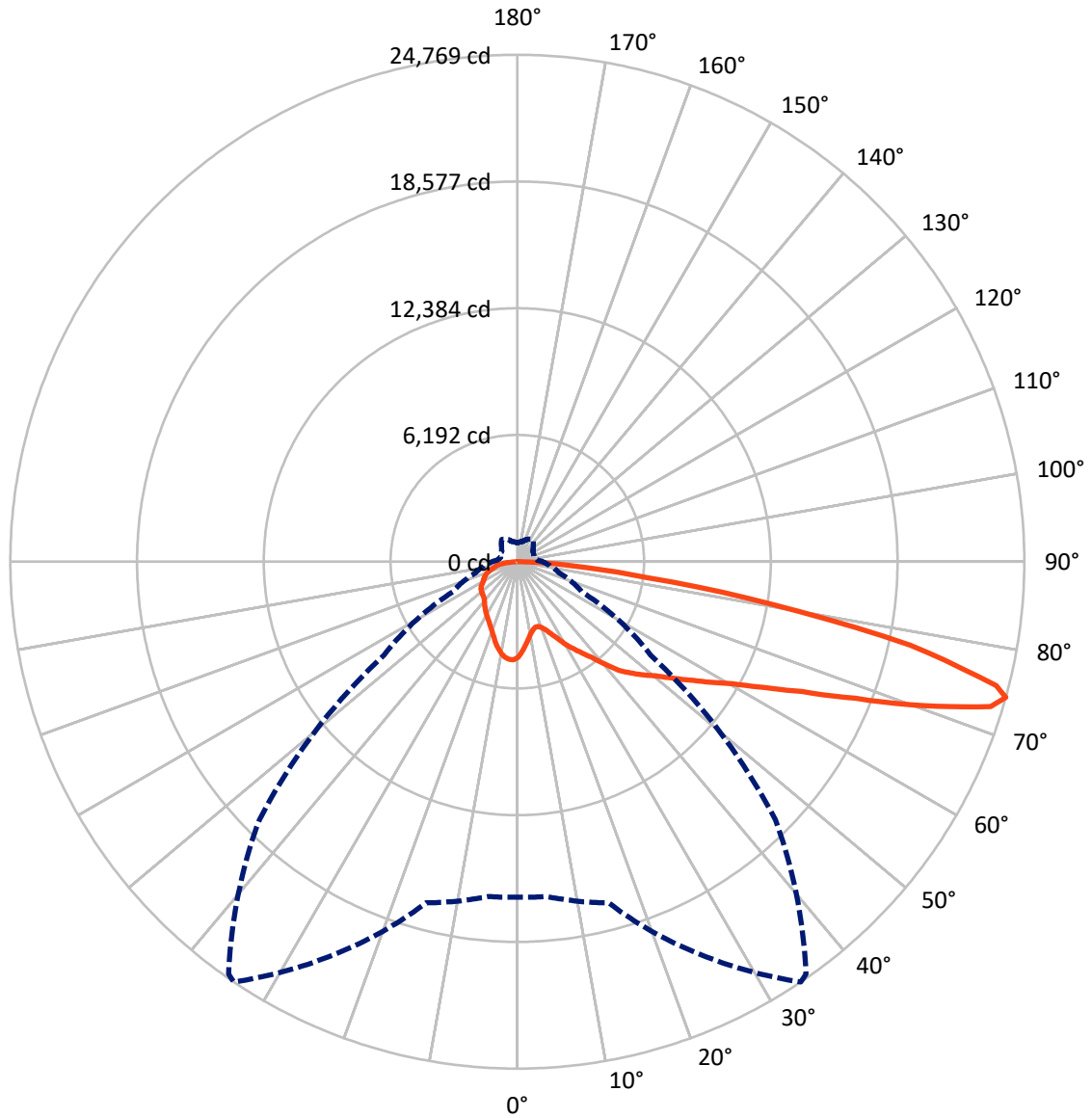
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6507.4	0.0	6507.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	24071.6	0.0	24071.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	30579.0	0.0	30579.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.6	1.4
10°-20°	1162.3	3.8
20°-30°	1916.4	6.3
30°-40°	2870.6	9.4
40°-50°	4173.0	13.6
50°-60°	5828.7	19.1
60°-70°	7297.2	23.9
70°-80°	6034.2	19.7
80°-90°	871.9	2.9
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°	30579.0	100.0
0°-180°	30579.0	100.0

**Coefficient of Utilization**



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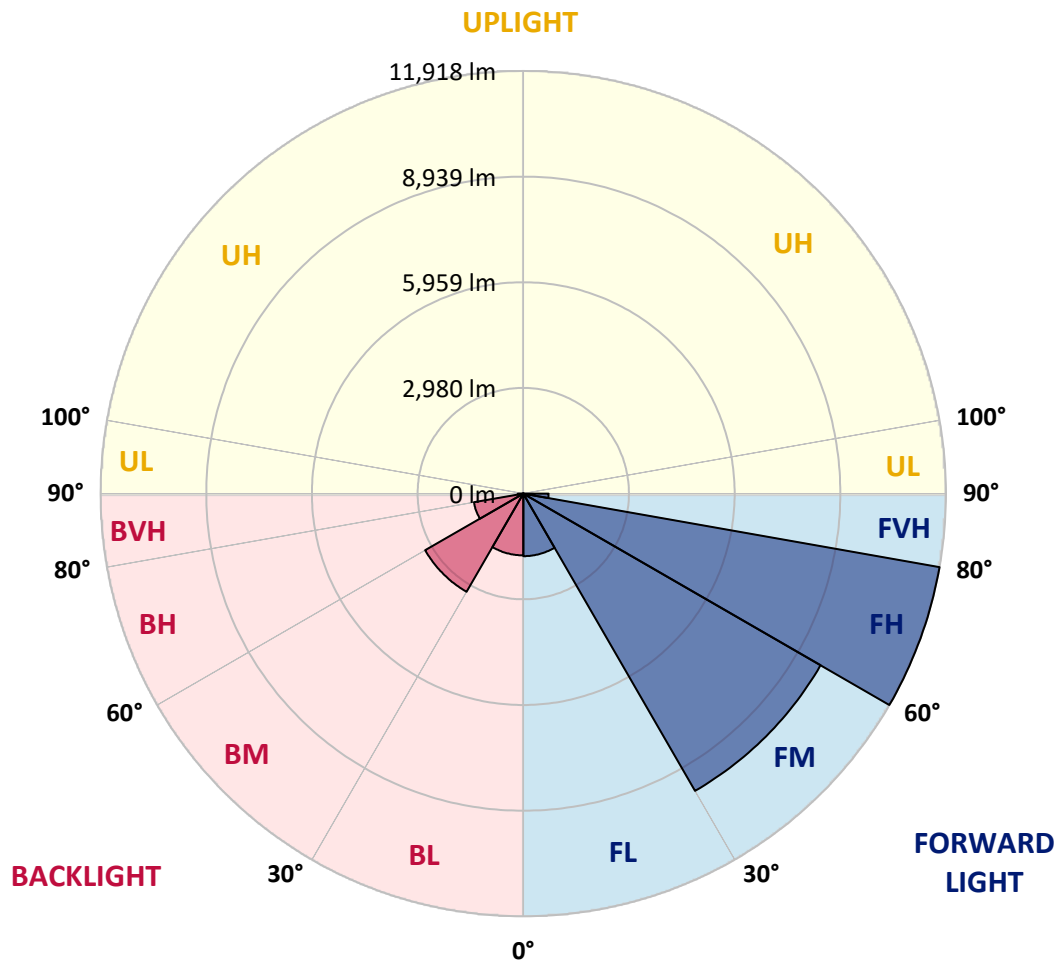
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.7	5.8			
FM	(30°-60°)	9676.5	31.6			
FH	(60°-80°)	11918.1	39.0			G4/12000
FVH	(80°-90°)	714.3	2.3			G4/750
BL	(0°-30°)	1740.6	5.7	B3/2500		
BM	(30°-60°)	3195.8	10.5	B3/5000		
BH	(60°-80°)	1413.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	157.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8
2.5°	4314.8	4336.8	4348.6	4391.0	4401.1	4414.7	4450.3	4497.7	4558.7	4612.9	4660.3
5°	3955.6	3989.5	4009.8	4047.1	4119.9	4126.7	4221.6	4330.0	4453.7	4568.9	4663.7
7.5°	3615.1	3652.4	3669.3	3737.1	3833.6	3848.9	3987.8	4158.9	4365.6	4540.1	4685.7
10°	3359.3	3377.9	3415.2	3466.0	3581.2	3591.4	3772.7	4001.4	4269.0	4526.5	4723.0
12.5°	3220.4	3230.6	3239.0	3293.2	3406.7	3422.0	3611.7	3870.9	4192.8	4536.7	4784.0
15°	3240.7	3244.1	3206.8	3217.0	3308.5	3330.5	3518.5	3784.5	4145.3	4562.1	4875.5
17.5°	3411.8	3400.0	3308.5	3261.1	3325.4	3335.6	3499.9	3750.6	4123.3	4609.5	4970.3
20°	3681.2	3664.2	3506.7	3401.7	3438.9	3447.4	3560.9	3776.0	4145.3	4687.4	5117.7
22.5°	4016.6	4009.8	3771.0	3643.9	3642.2	3642.2	3701.5	3867.5	4211.4	4794.2	5271.9
25°	4485.9	4450.3	4138.6	3974.2	3928.5	3925.1	3918.3	4018.3	4296.1	4907.7	5454.8
27.5°	4967.0	4906.0	4628.2	4375.7	4277.5	4265.6	4221.6	4231.7	4404.5	5036.4	5663.2
30°	5398.9	5360.0	5099.1	4819.6	4702.7	4675.6	4553.6	4497.7	4585.8	5268.5	5995.3
32.5°	5729.3	5705.6	5502.3	5248.2	5075.4	5070.3	4892.4	4846.7	4868.7	5549.7	6374.7
35°	5996.9	6005.4	5902.1	5681.9	5483.6	5454.8	5336.3	5278.7	5214.3	5956.3	6852.4
37.5°	6362.9	6381.5	6374.7	6185.0	5942.7	5949.5	5922.4	5827.5	5656.4	6410.3	7382.7
40°	6766.0	6779.6	6777.9	6705.1	6578.0	6584.8	6574.6	6466.2	6210.4	6988.0	7972.2
42.5°	7323.4	7259.0	7091.3	7164.1	7238.7	7270.9	7340.3	7237.0	6886.3	7604.6	8526.2
45°	7946.8	7824.8	7445.4	7479.2	7755.4	7816.4	8199.2	8056.9	7619.8	8312.7	9178.4
47.5°	8339.8	8219.5	7899.4	7892.6	8258.5	8317.8	8995.4	8942.9	8287.3	9076.7	9974.6
50°	8690.5	8673.5	8312.7	8399.1	8756.6	8844.6	9862.8	9813.6	8953.1	9978.0	10841.9
52.5°	9210.6	9073.3	8785.4	8963.2	9435.9	9551.1	10723.4	10579.4	9564.6	10774.2	11683.9
55°	9444.3	9412.2	9395.2	9549.4	10198.2	10281.2	11560.2	11229.9	10086.4	11448.4	12324.2
57.5°	10069.4	10010.2	10177.9	10282.9	11096.0	11223.1	12434.3	11909.2	10543.8	11983.7	12635.9
60°	10879.2	10847.0	11001.2	11190.9	12098.9	12292.0	13430.4	12488.6	10911.4	12253.1	12464.8
62.5°	12088.8	12085.4	12056.6	12463.1	13520.2	13698.1	14573.9	13052.7	10969.0	12051.5	11580.5
65°	13823.5	13762.5	13511.8	13955.6	15288.8	15497.2	15764.9	13367.8	10621.7	11016.4	9751.0
67.5°	15637.8	15634.4	15431.1	16007.1	17828.2	18043.4	17253.9	13298.3	9657.8	8924.3	6925.3
70°	17142.1	17069.3	17328.5	18863.3	21072.3	21321.3	18556.7	12480.1	7692.7	5893.6	4114.9
72.5°	17502.9	17506.3	18045.0	21065.5	24187.7	24226.6	19025.9	10115.2	5148.2	3250.9	2058.3
74°	16391.7	16420.5	17255.6	21175.7	24768.7	24592.6	17826.5	7950.2	3481.3	2122.6	1484.0
75°	14961.9	14780.6	15988.5	20442.1	24165.7	23975.9	16422.1	6379.8	2656.3	1695.7	1299.3
77.5°	7999.3	8184.0	10047.4	15254.9	19632.4	19413.8	11135.0	3059.5	1434.9	1180.8	935.1
80°	2847.7	3140.8	4414.7	7982.4	12586.8	12654.6	5314.2	1402.7	1009.7	870.7	660.7
82.5°	1162.1	1194.3	1895.6	3542.3	6391.7	6452.6	2170.1	833.5	721.7	599.7	394.7
85°	454.0	467.6	838.6	1592.4	2727.4	2905.3	750.5	440.5	443.8	343.9	201.6
87.5°	152.5	172.8	343.9	530.2	926.6	908.0	218.5	130.4	159.2	149.1	62.7
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°	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8
2.5°	4684.1	4716.2	4738.3	4762.0	4784.0	4790.8	4785.7	4800.9	4802.6	4804.3	4806.0
5°	4711.2	4755.2	4797.6	4821.3	4831.4	4823.0	4794.2	4778.9	4765.4	4755.2	4758.6
7.5°	4748.4	4811.1	4850.1	4860.2	4833.1	4794.2	4723.0	4667.1	4631.5	4607.8	4606.1
10°	4806.0	4867.0	4899.2	4870.4	4795.9	4701.0	4589.2	4484.2	4404.5	4380.8	4379.1
12.5°	4878.9	4948.3	4946.6	4861.9	4731.5	4562.1	4380.8	4258.8	4150.4	4096.2	4118.2
15°	4973.7	5026.3	4977.1	4824.7	4618.0	4385.9	4162.3	3996.3	3874.3	3816.7	3820.1
17.5°	5083.9	5129.6	4999.1	4758.6	4458.7	4160.6	3901.4	3743.9	3647.3	3604.9	3601.6
20°	5221.1	5234.6	4999.1	4643.4	4253.8	3898.0	3650.7	3540.6	3486.4	3464.3	3471.1
22.5°	5368.5	5341.3	4972.0	4480.8	3984.4	3623.6	3457.6	3408.4	3381.3	3377.9	3381.3
25°	5534.5	5458.2	4916.1	4260.5	3703.2	3386.4	3289.8	3298.3	3303.4	3303.4	3315.3
27.5°	5737.8	5585.3	4823.0	3982.7	3374.6	3166.2	3139.1	3198.4	3225.5	3230.6	3239.0
30°	6005.4	5724.2	4668.8	3635.4	3095.0	2968.0	3015.4	3095.0	3125.5	3144.2	3140.8
32.5°	6323.9	5876.7	4460.4	3288.2	2869.7	2829.1	2886.7	2968.0	3001.9	3012.0	2998.5
35°	6698.3	6049.5	4186.0	2962.9	2673.2	2696.9	2764.7	2790.1	2820.6	2820.6	2827.4
37.5°	7101.5	6188.4	3850.6	2664.7	2520.8	2607.1	2656.3	2632.6	2619.0	2602.1	2610.5
40°	7511.4	6291.7	3415.2	2370.0	2368.3	2514.0	2527.5	2459.8	2405.6	2388.6	2380.1
42.5°	7868.9	6356.1	3022.2	2141.3	2224.3	2422.5	2432.7	2324.2	2237.8	2187.0	2170.1
45°	8290.7	6430.6	2637.6	1951.5	2090.5	2349.7	2375.1	2229.4	2102.3	1995.6	1968.5
47.5°	8868.4	6600.0	2334.4	1804.2	1993.9	2303.9	2339.5	2151.4	1983.7	1844.8	1822.8
50°	9520.6	6832.1	2098.9	1704.2	1919.4	2263.3	2307.3	2071.8	1873.6	1719.5	1702.5
52.5°	10118.6	6957.5	1895.6	1614.4	1846.5	2188.7	2264.9	2014.2	1765.2	1594.1	1578.9
55°	10445.5	6754.2	1695.7	1526.3	1746.6	2092.2	2205.7	1934.6	1660.2	1528.0	1506.0
57.5°	10489.6	6334.1	1514.5	1431.5	1641.5	1973.6	2095.5	1838.0	1592.4	1482.3	1463.7
60°	10149.1	5707.3	1373.9	1353.5	1534.8	1839.7	1971.9	1753.3	1523.0	1431.5	1412.8
62.5°	9302.0	5026.3	1275.6	1282.4	1426.4	1699.1	1880.4	1672.0	1456.9	1375.6	1358.6
65°	7845.2	4148.7	1180.8	1209.6	1329.8	1589.0	1797.4	1604.3	1390.8	1333.2	1318.0
67.5°	5449.8	2995.1	1102.8	1133.3	1238.4	1477.2	1700.8	1531.4	1316.3	1285.8	1262.1
70°	3017.1	1843.1	1011.3	1046.9	1143.5	1351.9	1592.4	1421.3	1207.9	1194.3	1160.4
72.5°	1585.6	1174.0	908.0	947.0	1014.7	1190.9	1426.4	1301.0	1101.1	1043.5	999.5
74°	1238.4	962.2	838.6	879.2	925.0	1096.1	1328.1	1214.6	1024.9	957.1	923.3
75°	1079.1	857.2	779.3	831.8	872.4	1031.7	1251.9	1153.6	982.6	918.2	887.7
77.5°	762.3	642.0	637.0	699.6	721.7	904.6	1128.2	1050.3	875.8	808.1	779.3
80°	535.3	481.1	504.8	543.8	574.3	799.6	1046.9	908.0	718.3	638.7	628.5
82.5°	349.0	315.1	360.8	396.4	406.6	589.5	845.3	689.5	523.5	425.2	394.7
85°	160.9	157.5	206.7	201.6	199.9	288.0	501.4	403.2	301.5	225.3	211.8
87.5°	40.7	39.0	50.8	42.4	50.8	44.0	45.7	11.9	1.7	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)