

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: P522890

Luminaire Tested: **GALN-SA8C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41764 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

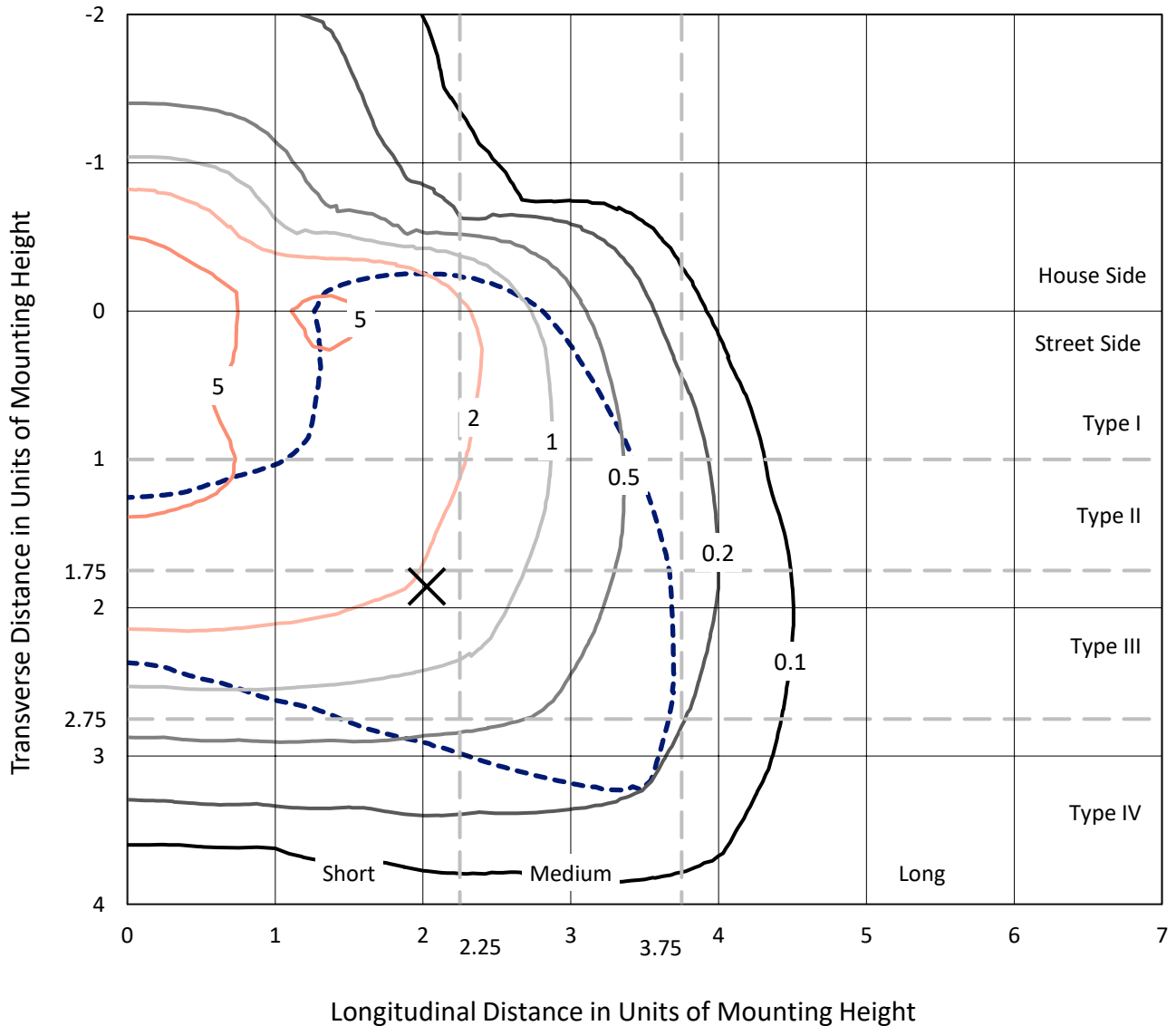
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

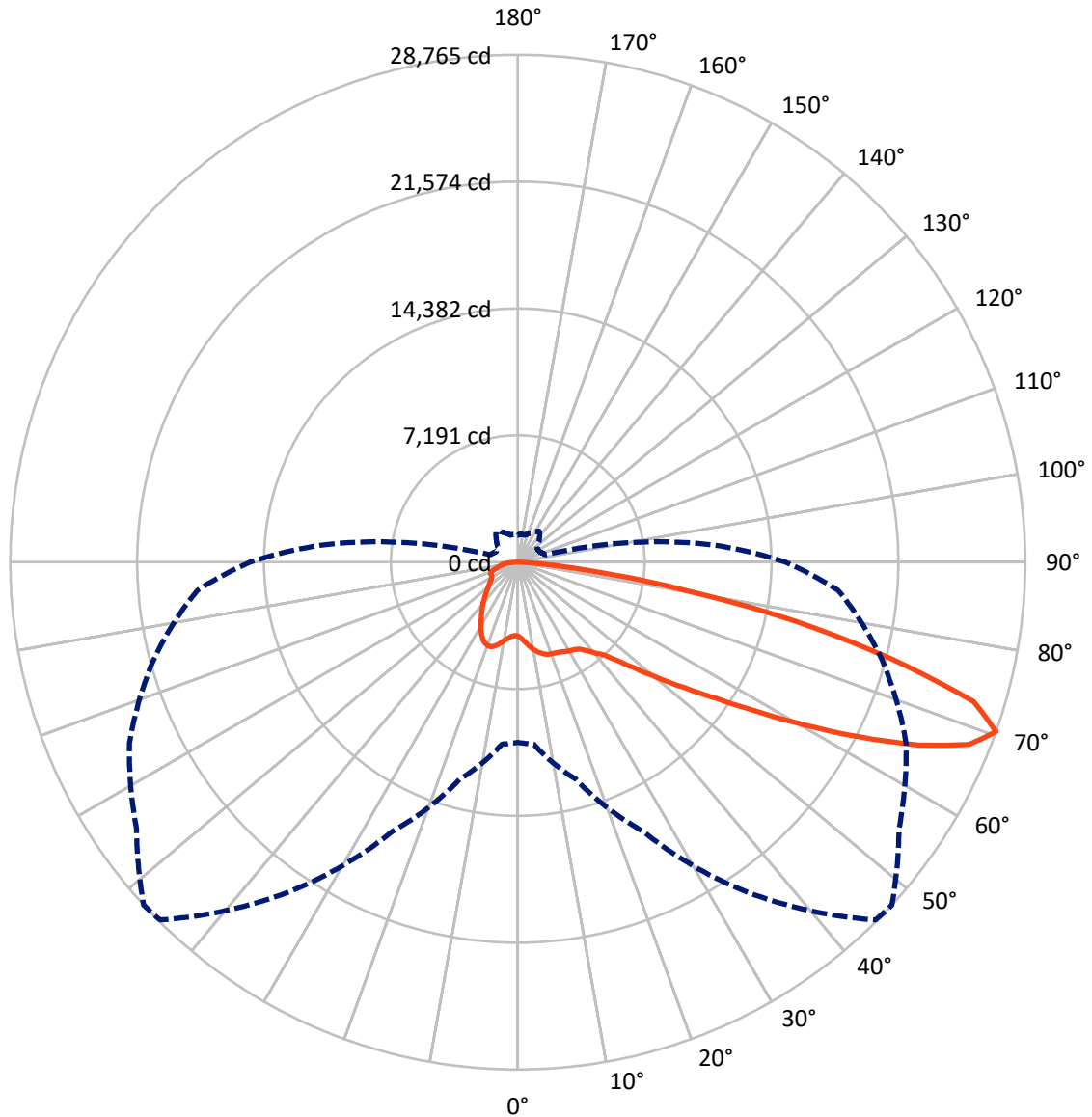
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9456.2	0.0	9456.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	32307.8	0.0	32307.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	41764.0	0.0	41764.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.2	1.0
10°-20°	1444.8	3.5
20°-30°	2402.6	5.8
30°-40°	3405.4	8.2
40°-50°	5027.1	12.0
50°-60°	8707.1	20.8
60°-70°	12299.1	29.4
70°-80°	7070.2	16.9
80°-90°	975.5	2.3
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°	41764.0	100.0
0°-180°	41764.0	100.0



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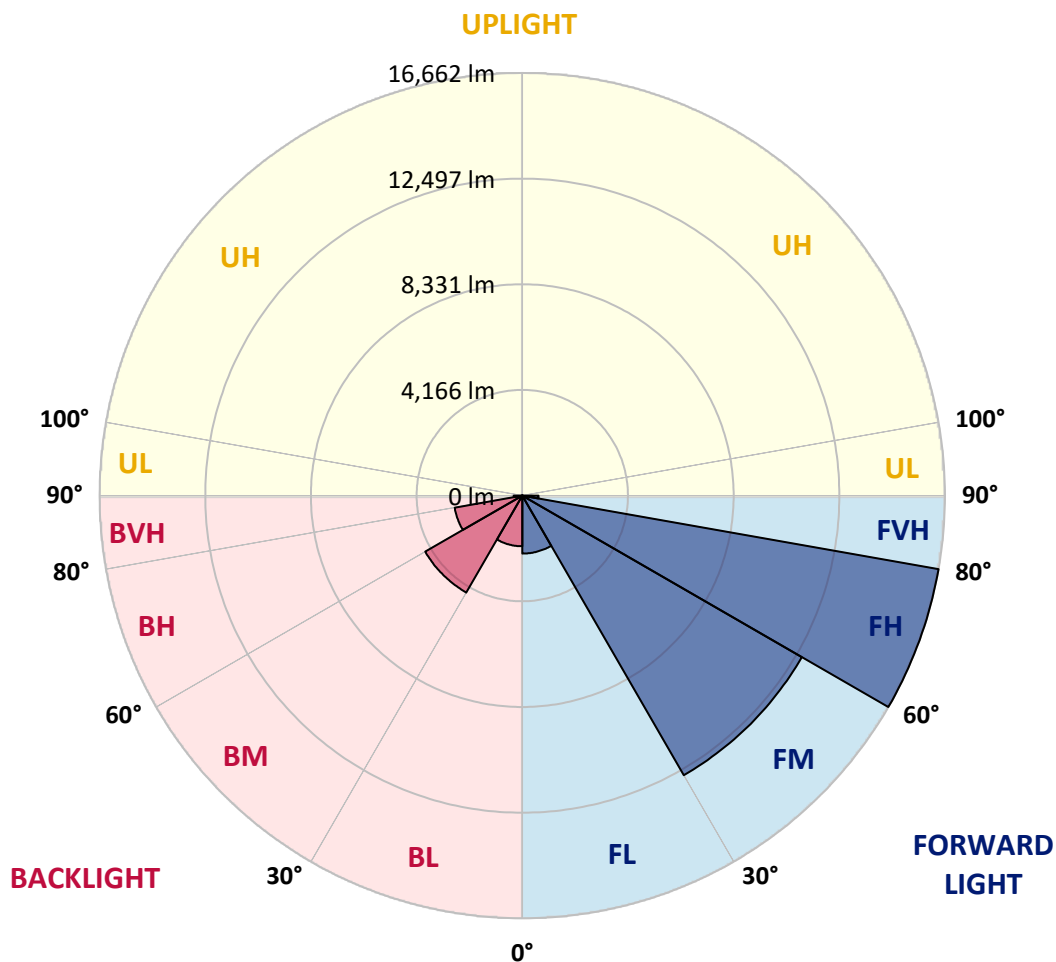
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2283.8	5.5			
FM	(30°-60°)	12724.7	30.5			
FH	(60°-80°)	16662.1	39.9			G5
FVH	(80°-90°)	637.2	1.5			G4/750
BL	(0°-30°)	1995.8	4.8	B3/2500		
BM	(30°-60°)	4414.9	10.6	B3/5000		
BH	(60°-80°)	2707.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	338.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6
2.5°	4463.0	4447.4	4445.1	4411.6	4393.7	4360.2	4346.8	4315.5	4277.5	4239.5	4203.8
5°	4813.9	4813.9	4798.3	4751.3	4677.6	4601.6	4568.1	4507.7	4400.4	4313.3	4239.5
7.5°	5173.7	5178.2	5146.9	5077.6	4972.6	4849.7	4818.4	4729.0	4577.0	4449.6	4340.1
10°	5484.4	5484.4	5441.9	5348.0	5216.2	5082.1	5050.8	4950.2	4780.4	4621.7	4478.7
12.5°	5721.2	5721.2	5665.4	5542.5	5399.4	5278.7	5243.0	5146.9	4988.2	4811.7	4630.6
15°	5875.5	5864.3	5801.7	5663.1	5524.6	5419.5	5395.0	5314.5	5169.2	4990.4	4787.1
17.5°	5882.2	5877.7	5817.3	5701.1	5580.5	5508.9	5493.3	5439.7	5325.7	5155.8	4941.3
20°	5752.5	5761.5	5721.2	5638.6	5580.5	5549.2	5542.5	5524.6	5444.1	5285.5	5070.9
22.5°	5614.0	5629.6	5591.6	5546.9	5542.5	5573.7	5578.2	5582.7	5531.3	5377.1	5180.4
25°	5580.5	5591.6	5553.6	5513.4	5538.0	5620.7	5638.6	5656.4	5616.2	5486.6	5310.0
27.5°	5750.3	5741.4	5667.6	5580.5	5596.1	5707.8	5732.4	5752.5	5732.4	5620.7	5470.9
30°	6230.8	6201.7	6054.2	5799.5	5719.0	5797.2	5821.8	5877.7	5877.7	5795.0	5645.3
32.5°	7035.3	6979.5	6709.1	6208.4	5929.1	5882.2	5906.7	5998.4	6045.3	5980.5	5817.3
35°	8012.0	7953.9	7567.2	6894.6	6313.5	6052.0	6045.3	6148.1	6273.3	6128.0	5915.7
37.5°	8993.1	8932.7	8467.9	7712.5	6874.4	6409.6	6369.4	6405.1	6458.8	6192.8	6052.0
40°	9974.2	9902.7	9495.9	8626.6	7560.5	6883.4	6778.3	6617.4	6595.1	6405.1	6315.7
42.5°	10946.4	10881.5	10675.9	9652.4	8383.0	7346.0	7185.1	6908.0	6992.9	6878.9	6800.7
45°	11927.5	11931.9	11712.9	10803.3	9375.3	8199.7	7982.9	7549.4	7750.5	7708.0	7752.7
47.5°	12796.8	12785.7	12707.4	11920.8	10606.7	9299.3	9019.9	8517.1	8861.2	9017.7	9359.6
50°	13639.4	13632.7	13637.1	13187.9	12037.0	10606.7	10298.2	9770.8	10546.3	11089.4	11701.7
52.5°	14846.2	14884.2	14613.8	14495.3	13775.7	12151.0	11811.3	11265.9	12537.6	13393.5	14589.2
55°	16057.5	16026.2	15813.9	15936.8	15594.9	13979.1	13623.7	13190.2	14754.6	15691.0	17487.8
57.5°	16770.4	16781.6	16998.4	17599.5	17840.9	16258.6	15936.8	15601.6	17246.4	17910.2	20066.8
60°	17411.8	17463.2	18086.7	19222.1	19876.9	19058.9	18772.8	18446.6	19532.7	19796.4	22306.2
62.5°	17613.0	17771.6	18860.0	20558.5	21861.4	22219.0	21863.7	21144.0	21709.5	21606.7	23823.6
65°	16609.5	16826.3	18777.3	21059.1	23633.7	25218.2	24992.5	23656.0	23564.4	22945.3	24071.7
67.5°	13967.9	14184.7	16690.0	20008.7	24366.7	27815.1	27589.4	25488.6	24690.8	23070.5	22194.4
70°	10220.0	10356.4	12752.1	16846.4	22893.9	28686.7	28764.9	26382.6	24288.5	21369.8	18223.1
72.5°	5888.9	6190.6	7869.0	11851.5	18703.6	26483.1	27026.2	24523.2	21745.2	17827.5	12741.0
75°	2532.1	2538.8	3638.4	6537.0	12667.2	21287.1	21812.3	20328.3	17076.6	12327.5	6802.9
77.5°	1204.6	1226.9	1600.2	2918.7	6972.8	14707.6	16124.5	14361.2	10921.8	5922.4	2570.1
80°	782.2	797.8	978.9	1448.2	3419.3	8528.2	9516.0	8284.6	4818.4	2116.4	1108.5
82.5°	473.8	478.3	654.8	885.0	1881.8	3861.8	4552.4	3595.9	2056.1	1267.2	652.6
85°	288.3	290.5	397.8	547.5	1142.0	1334.2	1370.0	1358.8	1206.8	829.1	348.6
87.5°	138.6	143.0	205.6	259.2	449.2	413.4	391.1	453.7	569.9	447.0	149.7
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°	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6	4192.6
2.5°	4188.1	4181.4	4165.8	4159.1	4154.6	4156.8	4154.6	4154.6	4156.8	4156.8	4156.8
5°	4208.2	4197.1	4172.5	4172.5	4185.9	4217.2	4246.2	4268.6	4293.2	4290.9	4290.9
7.5°	4295.4	4275.3	4246.2	4255.2	4288.7	4337.9	4389.3	4438.4	4487.6	4492.1	4489.8
10°	4422.8	4402.7	4371.4	4382.6	4436.2	4510.0	4574.8	4646.3	4699.9	4715.6	4711.1
12.5°	4568.1	4527.8	4501.0	4532.3	4617.2	4715.6	4778.1	4831.8	4869.8	4892.1	4883.2
15°	4715.6	4677.6	4646.3	4711.1	4813.9	4905.5	4936.8	4945.8	4952.5	4974.8	4970.3
17.5°	4858.6	4807.2	4796.0	4880.9	4979.3	5019.5	5001.6	4963.6	4934.6	4952.5	4950.2
20°	4986.0	4945.8	4941.3	5026.2	5064.2	5026.2	4950.2	4883.2	4831.8	4836.2	4834.0
22.5°	5106.7	5075.4	5079.8	5115.6	5055.3	4925.6	4800.5	4708.9	4653.0	4664.2	4670.9
25°	5240.8	5209.5	5220.6	5162.5	4963.6	4737.9	4556.9	4478.7	4456.3	4478.7	4494.3
27.5°	5415.1	5395.0	5388.3	5164.8	4800.5	4460.8	4255.2	4226.1	4246.2	4295.4	4320.0
30°	5602.8	5602.8	5567.0	5126.8	4577.0	4127.8	3949.0	3953.5	4022.8	4092.0	4116.6
32.5°	5783.8	5821.8	5710.1	5024.0	4288.7	3803.7	3667.4	3671.9	3732.2	3817.1	3839.5
35°	5933.6	6043.1	5833.0	4836.2	3949.0	3531.1	3428.3	3367.9	3370.2	3435.0	3452.9
37.5°	6139.2	6342.5	5904.5	4556.9	3587.0	3298.7	3182.4	3077.4	3008.1	2981.3	2981.3
40°	6496.7	6796.2	5922.4	4143.4	3245.0	3077.4	2912.0	2786.9	2652.8	2532.1	2509.8
42.5°	7102.4	7480.1	5886.6	3667.4	2936.6	2833.8	2672.9	2518.7	2333.2	2163.3	2149.9
45°	8175.1	8369.6	5790.5	3173.5	2661.7	2599.1	2442.7	2275.1	2078.4	1926.5	1915.3
47.5°	9893.7	9618.9	5663.1	2735.5	2411.4	2393.5	2272.9	2078.4	1881.8	1776.7	1765.5
50°	12403.5	11585.5	5645.3	2418.1	2210.3	2219.2	2120.9	1942.1	1770.0	1682.9	1669.4
52.5°	15425.0	13961.2	5763.7	2194.6	2033.7	2067.2	2018.1	1852.7	1700.7	1627.0	1613.6
55°	18357.2	16097.7	5835.2	2020.3	1868.3	1930.9	1937.6	1799.1	1660.5	1586.8	1577.8
57.5°	20737.3	17706.8	5517.9	1861.6	1725.3	1821.4	1870.6	1767.8	1640.4	1584.5	1575.6
60°	22393.3	18466.7	4615.0	1720.8	1620.3	1734.3	1846.0	1770.0	1689.6	1696.3	1700.7
62.5°	22920.8	18129.2	3461.8	1615.8	1548.8	1705.2	1886.2	1861.6	1779.0	1830.4	1839.3
65°	22046.9	16734.7	2509.8	1533.1	1486.2	1725.3	2006.9	1928.7	1747.7	1785.7	1785.7
67.5°	19121.5	14417.1	1953.3	1457.1	1414.7	1763.3	2127.6	1922.0	1673.9	1718.6	1678.4
70°	15168.0	11152.0	1627.0	1372.2	1338.7	1707.4	2138.8	1852.7	1586.8	1595.7	1519.7
72.5°	10065.8	7332.6	1399.0	1291.8	1222.5	1535.4	2047.1	1763.3	1501.8	1450.4	1374.4
75°	4932.3	3656.2	1220.2	1191.2	1070.5	1336.4	1922.0	1678.4	1410.2	1329.7	1287.3
77.5°	1910.8	1555.5	1041.4	1063.8	931.9	1177.8	1756.6	1557.7	1289.5	1180.0	1146.5
80°	927.5	882.8	853.7	887.2	766.6	1003.5	1604.6	1452.7	1177.8	1057.1	1007.9
82.5°	576.6	545.3	654.8	690.6	590.0	916.3	1521.9	1363.3	1037.0	876.1	835.8
85°	292.8	312.9	438.0	471.6	422.4	728.6	1253.8	1023.6	748.7	621.3	625.8
87.5°	111.7	149.7	230.2	248.1	225.7	384.4	690.6	596.7	480.5	326.3	301.7
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)