

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: P533368

Luminaire Tested: **GALN-SA8D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50799 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

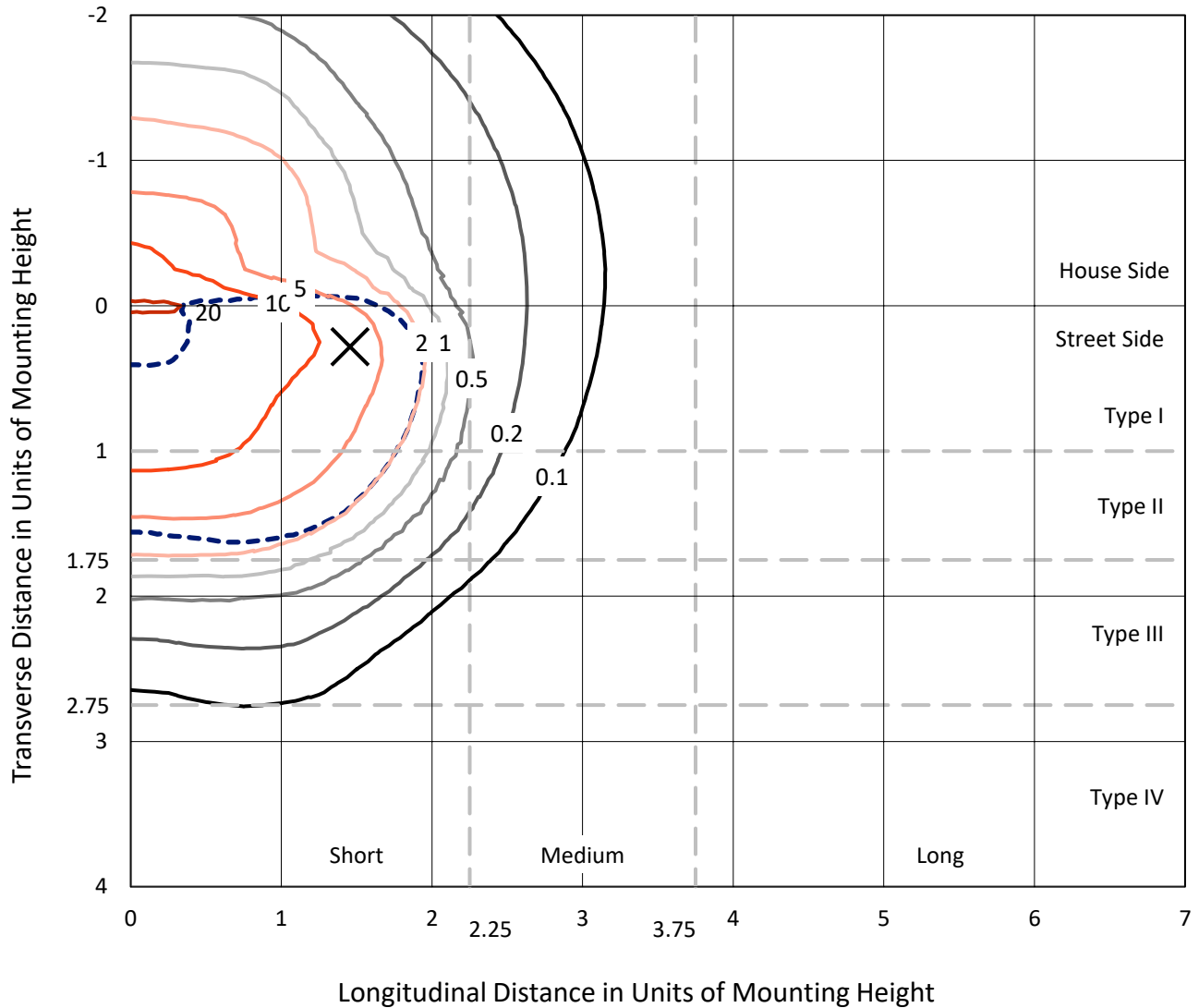
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

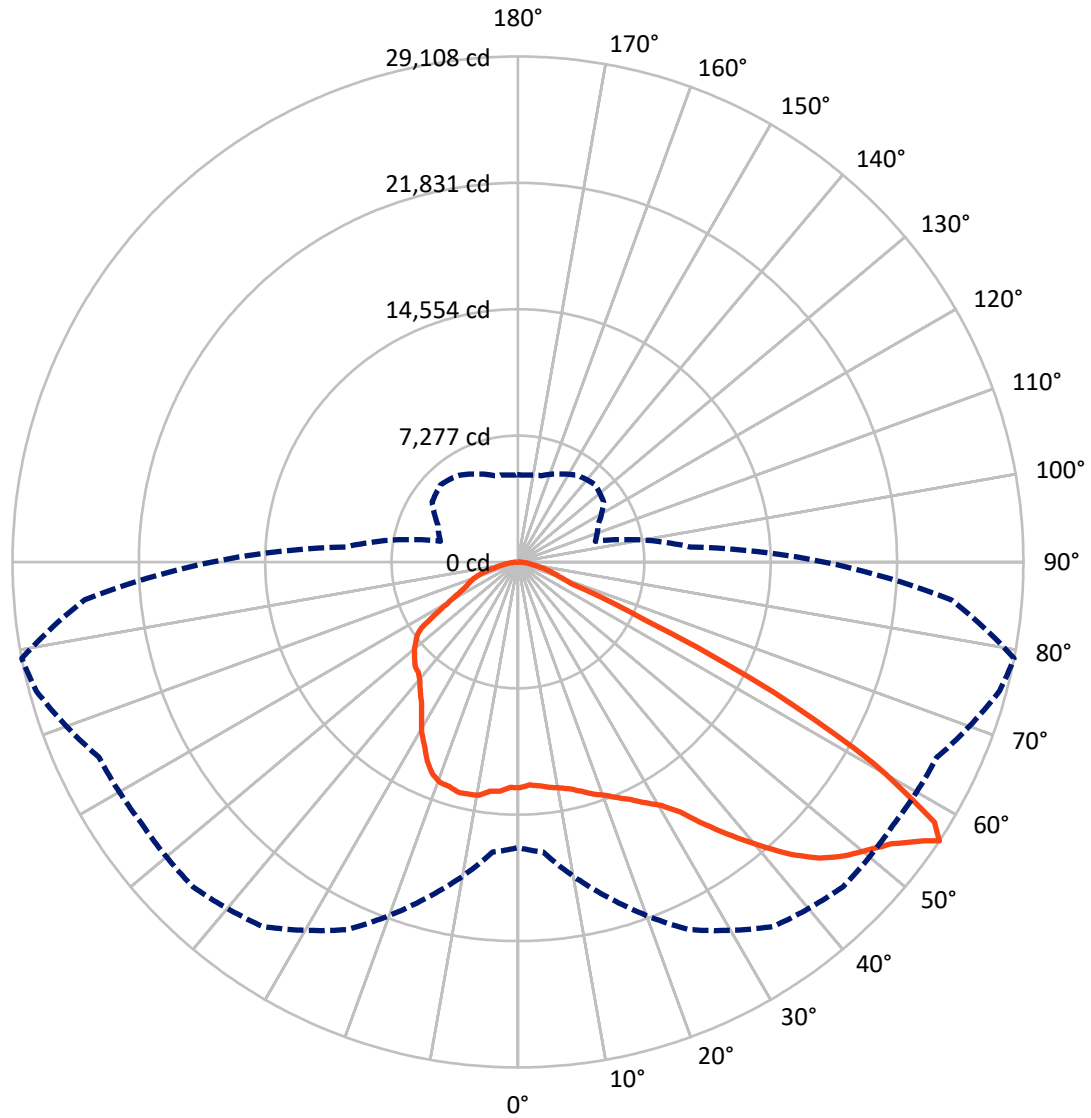
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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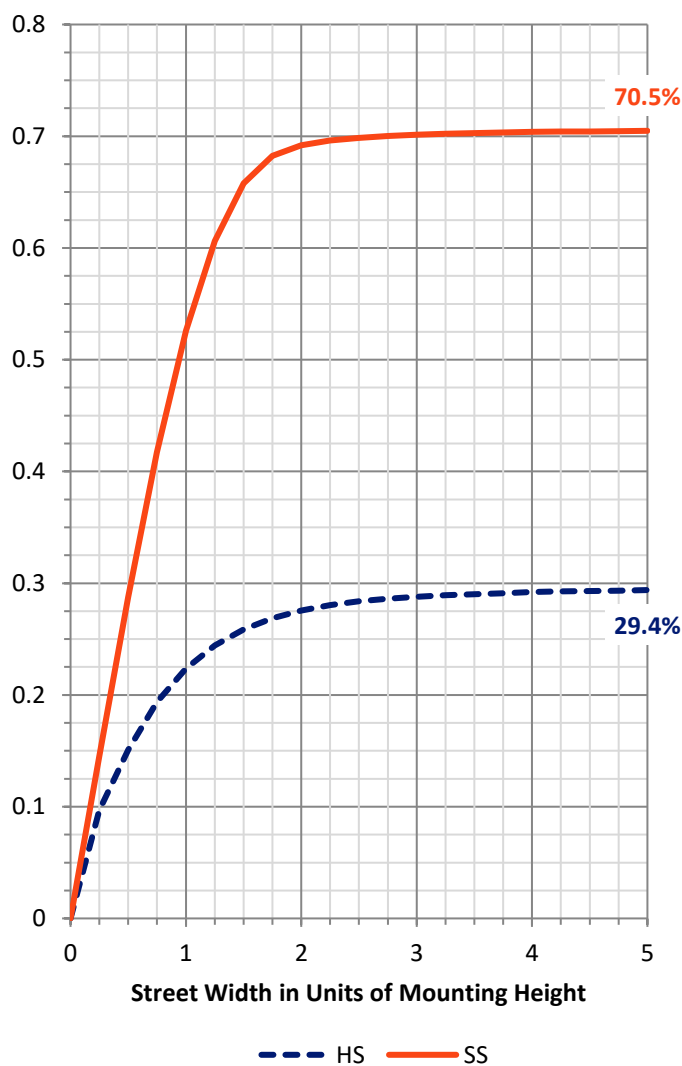
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15002.0	0.0	15002.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	35797.0	0.0	35797.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	50799.0	0.0	50799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.7	2.3
10°-20°	3234.0	6.4
20°-30°	5532.8	10.9
30°-40°	8479.7	16.7
40°-50°	11460.3	22.6
50°-60°	13162.5	25.9
60°-70°	5999.9	11.8
70°-80°	1479.3	2.9
80°-90°	268.9	0.5
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°	50799.0	100.0
0°-180°	50799.0	100.0

Coefficient of Utilization



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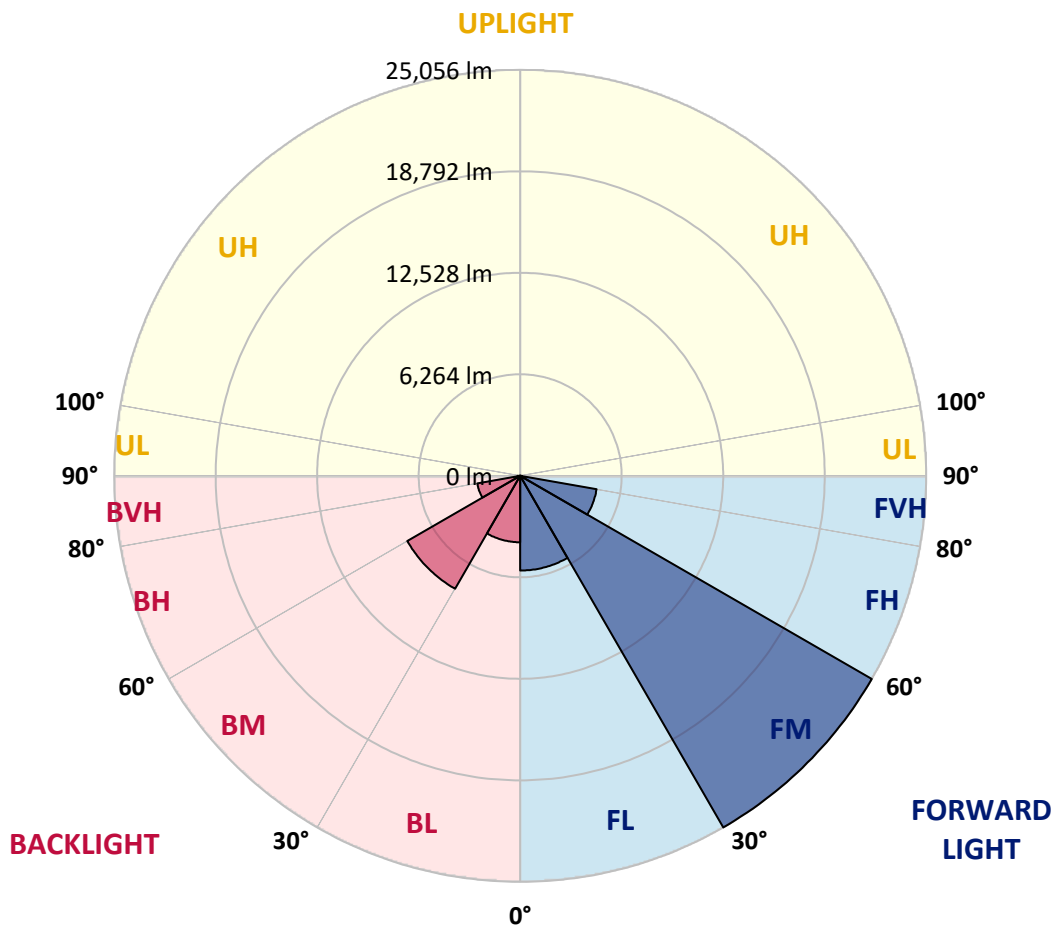
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5844.8	11.5			
FM (30°-60°)	25055.6	49.3			
FH (60°-80°)	4789.2	9.4			G2/5000
FVH (80°-90°)	107.4	0.2			G2/225
BL (0°-30°)	4103.7	8.1	B4/5000		
BM (30°-60°)	8046.9	15.8	B4/8500		
BH (60°-80°)	2689.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	161.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5
2.5°	12364.7	12333.0	12409.0	12465.9	12535.5	12624.1	12668.4	12693.7	12915.2	12858.2	13029.1
5°	12098.9	12016.6	12073.6	12117.9	12238.1	12345.7	12465.9	12655.7	12858.2	12946.8	13155.6
7.5°	11864.8	11820.5	11807.8	11839.5	12004.0	12143.2	12352.0	12630.4	12959.5	13105.0	13225.3
10°	11478.8	11415.5	11510.4	11719.2	11763.5	12054.6	12295.1	12693.7	12978.5	13231.6	13585.9
12.5°	11307.9	11244.6	11263.6	11383.8	11693.9	11972.3	12257.1	12706.4	13307.5	13408.8	13883.4
15°	11580.0	11516.7	11535.7	11504.1	11801.5	11947.0	12396.3	12959.5	13535.3	13706.2	14212.4
17.5°	12200.1	12206.5	12124.2	12054.6	11985.0	12295.1	12605.1	13111.4	13623.9	14054.2	14433.9
20°	13383.5	13174.6	13010.1	12617.8	12510.2	12643.1	13035.4	13522.7	13984.6	14339.0	14769.3
22.5°	14294.7	14313.7	14079.5	13434.1	13199.9	13256.9	13592.3	13990.9	14497.2	14750.3	15243.8
25°	15617.2	15484.3	15231.2	14718.6	14193.4	14237.7	14484.5	14845.2	14984.4	15161.6	15699.5
27.5°	16825.8	16863.8	16363.9	15883.0	15231.2	15104.6	15547.6	15610.9	15376.7	15712.1	15895.6
30°	18053.4	18021.8	17692.7	17129.6	16490.4	16515.8	16711.9	16401.8	16079.1	16262.6	16389.2
32.5°	19325.3	18964.6	18952.0	18445.8	17958.5	17724.4	17483.9	17635.8	17135.9	17173.8	17053.6
35°	20344.1	20394.7	20103.7	19743.0	19502.5	19091.2	18433.1	18705.2	18610.3	18566.0	18047.1
37.5°	21084.5	20888.3	21033.9	20913.6	20685.8	20173.3	19489.9	19749.3	19793.6	20008.7	19407.6
40°	21692.0	21609.7	21995.7	22059.0	21900.8	20793.4	19565.8	20337.8	21002.2	21470.5	20755.4
42.5°	21983.0	22160.2	22565.2	23052.4	22698.1	21514.8	19958.1	20787.1	22267.8	23008.1	22033.7
45°	22375.4	22147.6	22748.7	23640.9	23647.3	22122.2	20337.8	21394.5	23254.9	24330.7	22906.9
47.5°	21976.7	22090.6	22710.7	23843.4	24134.5	22761.4	21362.9	22255.1	24343.3	25298.8	23716.9
50°	21084.5	21312.3	22445.0	23622.0	24501.5	23438.4	22539.9	23185.3	25349.5	26077.2	23849.8
52.5°	20154.3	20280.8	22052.6	23792.8	24666.1	24311.7	24115.5	24469.9	26577.1	26956.7	24014.3
55°	17623.1	18224.3	20755.4	23716.9	25469.7	25887.3	25735.5	26254.3	27969.2	28348.9	24912.8
56°	16452.5	16768.9	19977.1	23362.5	25627.9	26463.2	26387.2	26621.4	28709.6	29108.2	25052.1
57.5°	14288.3	14313.7	17034.6	21793.2	25033.1	26634.0	26558.1	26741.6	28564.0	28291.9	23830.8
60°	8941.3	9333.6	11592.7	16762.5	21287.0	24710.3	25140.6	23666.2	24083.9	23508.1	18540.7
62.5°	4632.0	4575.1	6074.8	9801.9	14130.1	17692.7	18091.4	18021.8	17376.3	16534.7	12111.6
65°	2309.7	2322.3	3176.6	4853.5	7239.1	9264.0	10377.7	10497.9	8783.1	8080.7	5745.7
67.5°	1676.9	1740.2	2284.4	2967.8	3410.7	3815.7	4676.3	4587.7	3474.0	3303.2	3062.7
70°	1303.5	1360.5	1854.1	2265.4	2056.6	2056.6	2240.1	2316.0	2474.2	2543.8	2626.1
72.5°	949.2	993.5	1417.4	1563.0	1347.8	1449.1	1676.9	1854.1	2018.6	2043.9	2138.8
75°	651.8	689.7	930.2	860.6	810.0	999.8	1227.6	1392.1	1512.4	1575.6	1632.6
77.5°	424.0	436.6	531.5	449.3	518.9	645.4	797.3	936.5	1056.8	1107.4	1120.0
80°	189.8	208.8	227.8	284.8	360.7	461.9	569.5	683.4	759.3	778.3	816.3
82.5°	107.6	107.6	139.2	202.5	265.8	335.4	411.3	493.6	582.2	601.1	594.8
85°	57.0	57.0	82.3	120.2	164.5	196.2	189.8	196.2	208.8	240.5	234.1
87.5°	19.0	19.0	25.3	25.3	31.6	38.0	31.6	44.3	57.0	57.0	57.0
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°	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5	12997.5
2.5°	12978.5	13035.4	12959.5	13124.0	13124.0	13092.4	12934.2	12984.8	13022.8	13022.8	13054.4
5°	13225.3	13206.3	13256.9	13060.7	12940.5	12896.2	12636.8	12510.2	12402.6	12396.3	12301.4
7.5°	13364.5	13313.8	13294.9	13149.3	12617.8	12295.1	11738.2	11415.5	11345.9	11099.1	11194.0
10°	13585.9	13680.9	13585.9	12795.0	12054.6	11314.2	10770.0	10270.1	10074.0	9915.8	9820.9
12.5°	14041.6	13997.3	13446.7	12377.3	11339.5	10460.0	9650.0	9124.8	8928.6	8789.4	8776.8
15°	14427.6	14206.1	13364.5	11719.2	10225.8	9289.3	8624.9	8251.5	8163.0	8175.6	8232.6
17.5°	14560.4	14408.6	12934.2	11035.8	9396.9	8295.8	7985.8	7928.8	8011.1	8106.0	8131.3
20°	14769.3	14528.8	12757.0	10105.6	8371.8	7675.7	7656.7	7859.2	8011.1	8150.3	8169.3
22.5°	15205.9	14598.4	12181.2	9226.0	7669.4	7492.2	7675.7	7846.6	8080.7	8194.6	8093.4
25°	15332.4	14446.5	11371.2	8169.3	7226.4	7378.3	7574.5	7808.6	7973.1	8036.4	8080.7
27.5°	15440.0	14212.4	10276.5	7466.9	7087.2	7372.0	7574.5	7770.6	7859.2	7916.2	7966.8
30°	15743.7	14142.8	9327.3	6998.6	6998.6	7245.4	7504.9	7555.5	7675.7	7745.3	7833.9
32.5°	15895.6	13661.9	8352.8	6701.2	6910.0	7308.7	7327.7	7422.6	7428.9	7485.9	7391.0
35°	16294.3	13320.2	7447.9	6486.1	6948.0	7245.4	7340.3	7283.4	6973.3	6821.4	6853.1
37.5°	16585.4	13149.3	6796.1	6460.8	6954.3	7315.0	7365.6	6935.3	6612.6	6359.5	6422.8
40°	17370.0	12725.4	6302.6	6416.5	7011.3	7391.0	7251.7	6783.5	6201.3	5941.9	5897.6
42.5°	17971.2	12421.6	5992.5	6365.8	7055.6	7498.5	7194.8	6479.7	5884.9	5644.5	5707.7
45°	18667.2	12352.0	5828.0	6378.5	7131.5	7555.5	7125.2	6245.6	5612.8	5517.9	5498.9
47.5°	18914.0	11852.1	5650.8	6270.9	7112.5	7536.5	6891.1	6068.4	5511.6	5524.2	5574.9
50°	18502.7	11339.5	5517.9	6049.4	6986.0	7365.6	6524.0	5834.3	5454.6	5612.8	5701.4
52.5°	17977.5	10814.3	5245.8	5752.0	6726.5	7099.9	6353.2	5821.6	5397.7	5347.1	5366.0
55°	18135.7	10384.0	4866.1	5347.1	6308.9	6606.3	6163.3	5701.4	5258.5	5068.6	5131.9
56°	17623.1	9941.1	4619.3	5093.9	6024.1	6289.9	6068.4	5593.8	5144.6	5018.0	5018.0
57.5°	16174.0	8454.0	4296.6	4689.0	5423.0	5739.4	5884.9	5530.6	5018.0	4796.5	4802.9
60°	11928.0	6011.5	3853.7	4132.1	4492.8	4745.9	5423.0	5353.4	4701.6	4549.7	4492.8
62.5°	7353.0	4391.5	3537.3	3644.9	3828.4	4037.2	4733.2	4847.2	4366.2	4201.7	4163.7
65°	4119.4	3360.1	3296.8	3341.1	3429.7	3537.3	3929.6	4182.7	3853.7	3600.6	3587.9
67.5°	3012.1	3005.7	3056.4	3094.3	3132.3	3132.3	3227.2	3328.5	3284.2	3081.7	3062.7
70°	2676.7	2695.7	2733.6	2740.0	2752.6	2708.3	2632.4	2600.8	2651.4	2524.8	2499.5
72.5°	2208.4	2271.7	2316.0	2322.3	2252.7	2195.8	2094.5	1987.0	1949.0	1923.7	1917.3
75°	1695.9	1740.2	1759.1	1752.8	1727.5	1645.2	1525.0	1417.4	1347.8	1271.9	1309.9
77.5°	1145.3	1208.6	1240.3	1240.3	1202.3	1075.7	1018.8	936.5	866.9	784.7	797.3
80°	803.6	847.9	898.6	892.2	829.0	765.7	683.4	607.5	550.5	487.2	480.9
82.5°	601.1	626.5	651.8	639.1	594.8	531.5	474.6	405.0	341.7	297.4	297.4
85°	215.1	234.1	284.8	297.4	322.7	322.7	272.1	227.8	183.5	151.9	151.9
87.5°	63.3	63.3	69.6	69.6	63.3	69.6	57.0	63.3	69.6	44.3	44.3
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)