

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: P531287

Luminaire Tested: **GALN-SA6C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25355 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

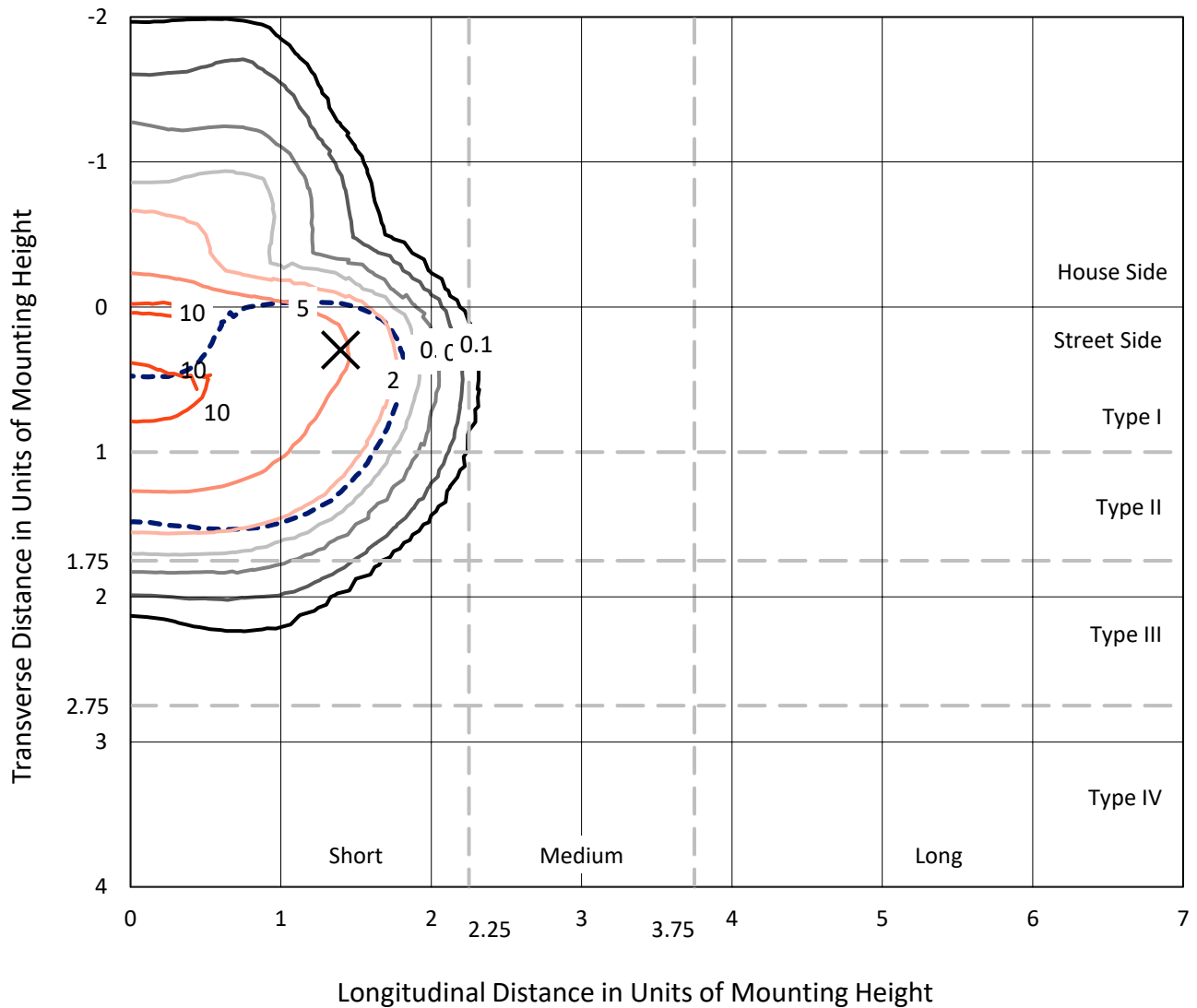
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

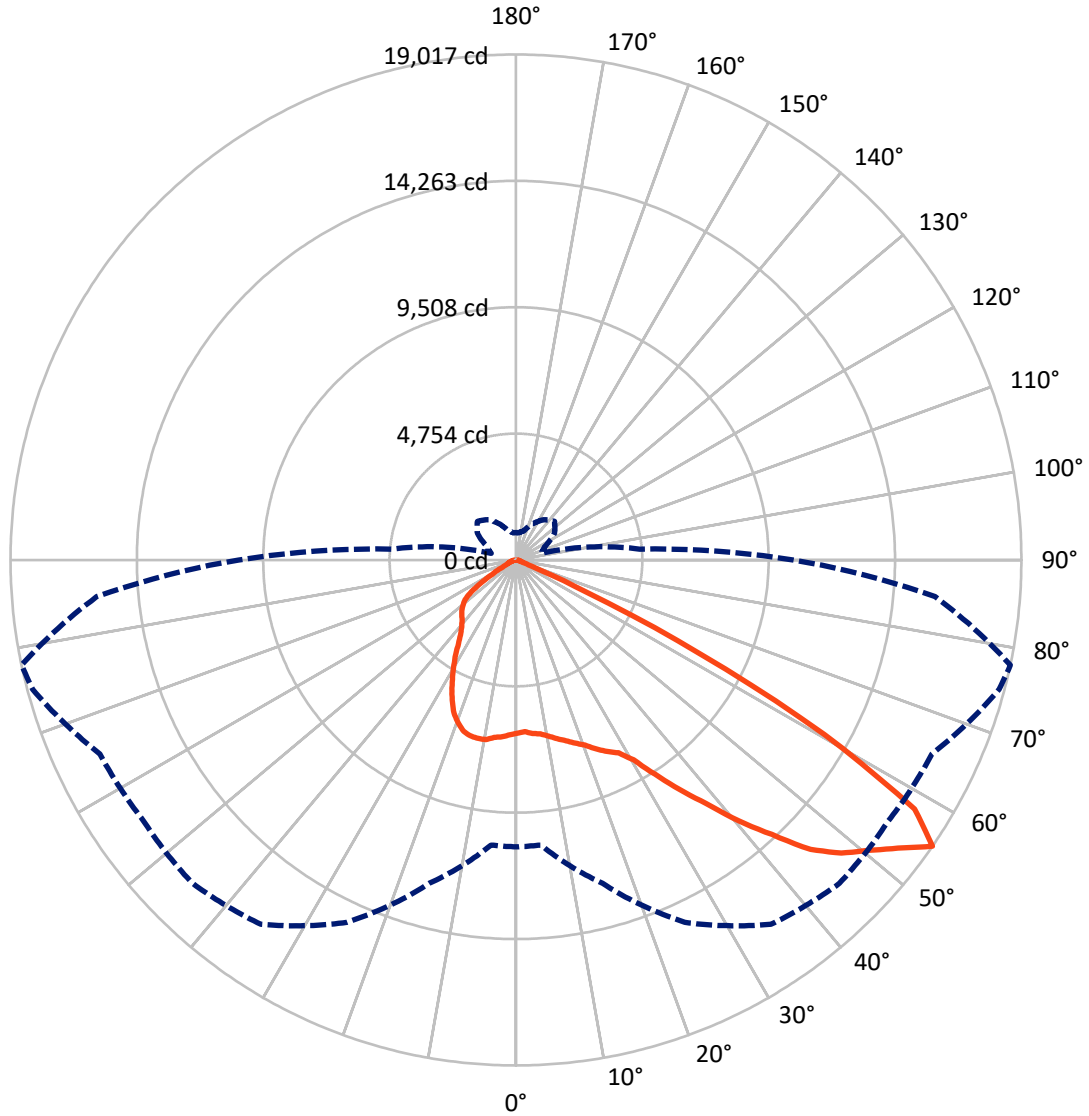
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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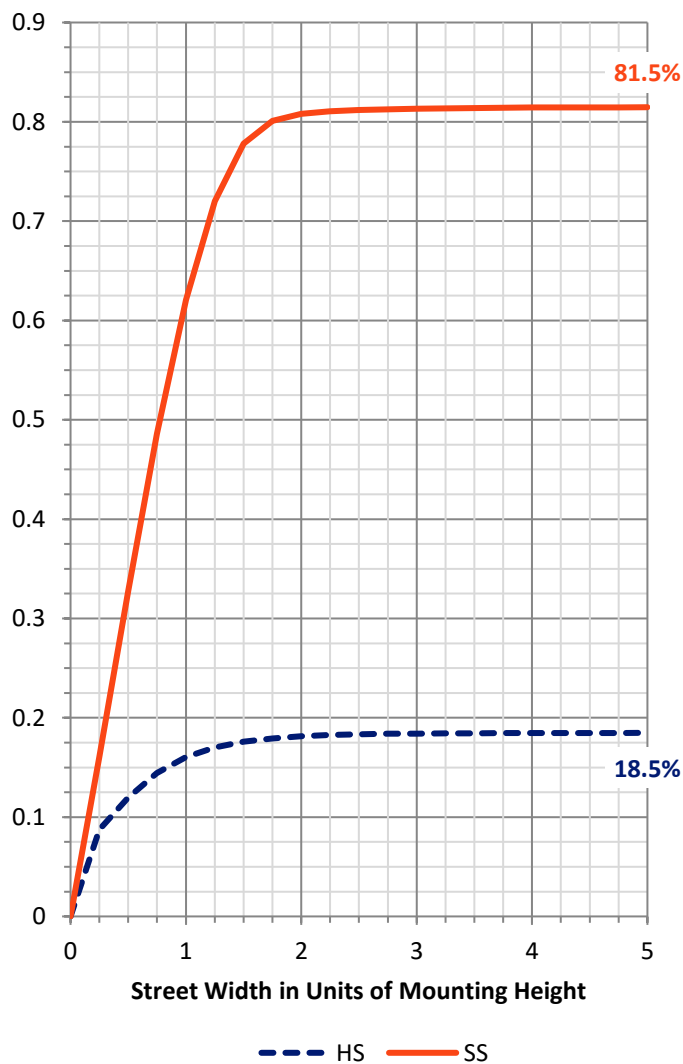
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4709.4	0.0	4709.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20645.6	0.0	20645.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	25355.0	0.0	25355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	2.3
10°-20°	1538.3	6.1
20°-30°	2696.4	10.6
30°-40°	4446.1	17.5
40°-50°	6469.6	25.5
50°-60°	7330.7	28.9
60°-70°	2096.0	8.3
70°-80°	162.8	0.6
80°-90°	33.9	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°	25355.0	100.0
0°-180°	25355.0	100.0

Coefficient of Utilization



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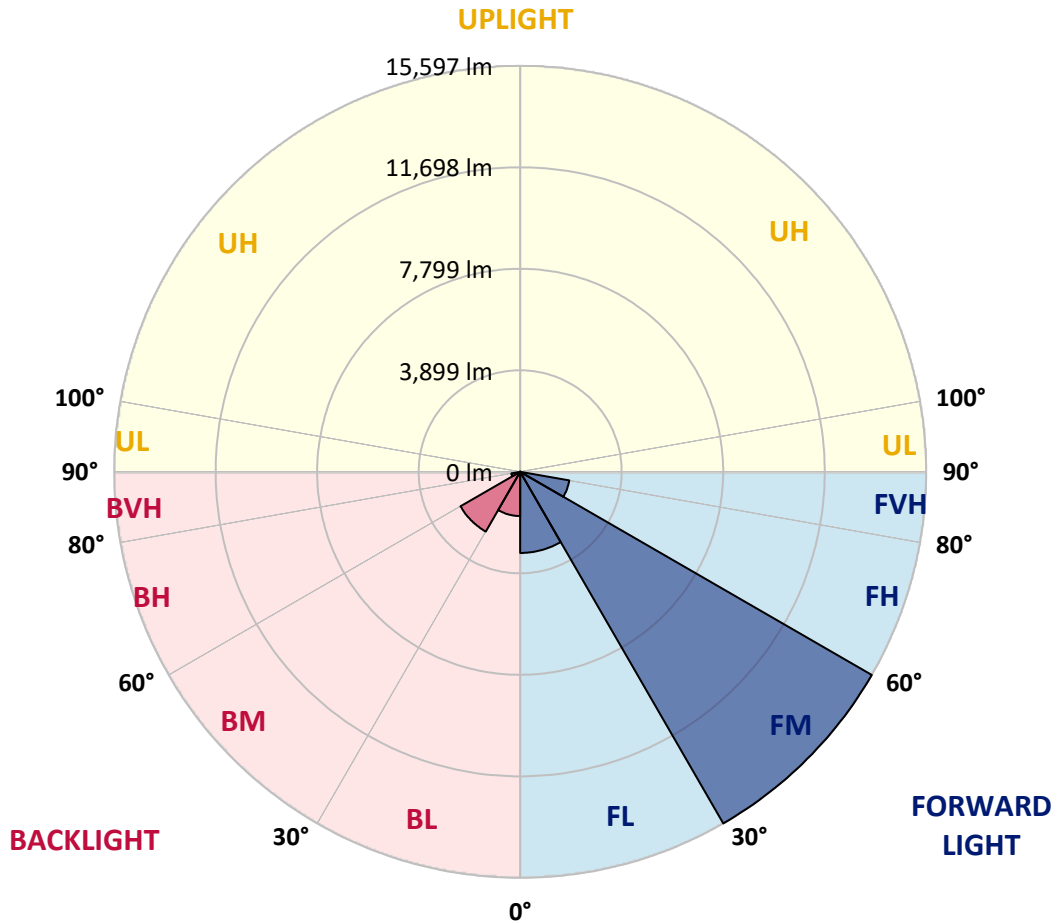
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.9	12.3			
FM (30°-60°)	15597.3	61.5			
FH (60°-80°)	1915.0	7.6			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1699.2	6.7	B3/2500		
BM (30°-60°)	2649.1	10.4	B3/5000		
BH (60°-80°)	343.8	1.4	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8
2.5°	6128.9	6187.9	6196.9	6269.5	6264.9	6387.3	6423.6	6428.1	6509.7	6468.9	6573.2
5°	5956.7	5924.9	5911.3	6038.3	6074.5	6183.3	6274.0	6328.4	6496.1	6555.1	6663.8
7.5°	5802.5	5802.5	5811.6	5924.9	5911.3	6051.9	6147.1	6314.8	6559.6	6609.5	6740.9
10°	5652.9	5598.5	5666.5	5784.4	5884.1	5947.6	6147.1	6305.7	6591.3	6736.4	6917.7
12.5°	5575.9	5603.1	5612.1	5698.3	5807.1	5997.5	6106.3	6369.2	6818.0	6904.1	7099.0
15°	6060.9	6006.5	5875.1	5798.0	5888.7	5979.3	6251.3	6518.8	6935.8	7058.2	7275.8
17.5°	6623.0	6577.7	6468.9	6260.4	6056.4	6224.1	6437.2	6682.0	7062.8	7244.1	7566.0
20°	7357.4	7284.9	7176.1	6768.1	6591.3	6410.0	6636.6	6926.8	7271.3	7434.5	7765.4
22.5°	8232.3	8232.3	7987.6	7493.4	7126.2	6954.0	7049.2	7216.9	7502.5	7724.6	8051.0
25°	9143.5	9116.3	8894.2	8381.9	7760.9	7556.9	7665.7	7783.6	7860.6	7983.0	8200.6
27.5°	10186.2	10027.5	9746.4	9179.8	8631.3	8236.9	8354.7	8250.5	8155.3	8218.7	8531.5
30°	10893.4	10993.1	10635.0	10091.0	9574.2	9134.5	9157.1	9066.5	8631.3	8721.9	8907.8
32.5°	11627.7	11691.2	11491.7	11192.5	10675.8	10163.5	9977.6	9900.6	9574.2	9615.0	9433.7
35°	12239.7	12362.1	12185.3	12053.9	11904.3	11491.7	10979.5	11228.8	10703.0	10603.2	10131.8
37.5°	12801.8	12765.6	12974.1	12838.1	12806.4	12516.2	11954.1	12004.0	11650.4	11627.7	11083.7
40°	13305.0	13314.1	13599.7	13663.2	13536.2	13019.4	12203.5	12597.8	12883.4	12910.6	12212.5
42.5°	13722.1	13844.5	14089.3	14601.5	14411.1	13549.8	12461.9	12892.5	13953.3	14121.0	13282.4
45°	14084.7	14334.1	14637.8	15095.7	14986.9	14302.3	13105.6	13500.0	15095.7	15535.4	14288.7
47.5°	14107.4	14433.8	14764.7	15444.7	15580.7	14705.8	13772.0	14461.0	16002.3	16478.3	15023.1
50°	14016.7	14189.0	14850.9	15589.8	15898.0	15363.1	14705.8	15267.9	16881.8	17180.9	15394.9
52.5°	12942.4	13073.8	14402.1	15725.8	16469.2	16106.6	15943.4	16392.2	17779.3	18001.5	15743.9
55°	10789.1	10766.4	12593.3	15041.3	16732.2	17208.1	17108.4	17267.1	18817.4	19016.9	15830.0
57.5°	7380.1	7792.6	9370.2	12525.3	15122.9	16949.7	17054.0	16791.1	17607.1	17684.1	13799.2
60°	3980.2	4152.4	5421.7	8359.3	11514.4	13812.8	14084.7	13608.8	13545.3	13327.7	9850.7
62.5°	1582.1	1668.2	2389.0	4138.8	6274.0	8395.5	8980.3	8785.4	8368.3	7797.2	5099.9
65°	752.5	806.9	1187.7	1935.7	2783.4	3499.7	4084.4	4265.8	3146.1	2833.3	1681.8
67.5°	512.3	553.1	865.8	1106.1	992.8	1038.1	1350.9	1255.7	738.9	630.1	466.9
70°	389.9	417.1	693.6	752.5	444.3	312.8	349.1	326.4	303.7	308.3	303.7
72.5°	276.5	299.2	507.7	444.3	194.9	145.1	185.9	222.1	222.1	222.1	217.6
75°	167.7	190.4	294.7	172.3	77.1	77.1	117.9	149.6	158.7	163.2	154.1
77.5°	86.1	108.8	99.7	49.9	49.9	58.9	86.1	104.3	113.3	113.3	108.8
80°	18.1	18.1	18.1	27.2	49.9	63.5	86.1	95.2	108.8	108.8	99.7
82.5°	0.0	4.5	13.6	27.2	45.3	58.9	81.6	95.2	108.8	113.3	104.3
85°	0.0	4.5	9.1	18.1	31.7	36.3	31.7	27.2	27.2	27.2	27.2
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8	6518.8
2.5°	6582.3	6595.9	6573.2	6568.7	6550.5	6604.9	6473.5	6441.7	6523.3	6446.3	6464.4
5°	6668.4	6700.1	6659.3	6591.3	6491.6	6337.5	6206.0	6033.7	5952.1	5893.2	5884.1
7.5°	6731.8	6754.5	6713.7	6496.1	6196.9	5807.1	5516.9	5303.9	5136.2	5086.3	5004.7
10°	6990.2	6994.8	6790.8	6310.3	5725.5	5213.2	4769.0	4442.6	4274.8	4170.6	4125.2
12.5°	7162.5	7153.4	6740.9	5943.1	5163.3	4483.4	3975.6	3581.3	3427.1	3377.3	3345.5
15°	7380.1	7330.2	6623.0	5566.8	4438.0	3703.6	3245.8	2973.8	2960.2	2928.5	2960.2
17.5°	7552.4	7411.8	6450.8	4882.3	3744.4	3050.9	2751.7	2769.8	2806.1	2837.8	2842.3
20°	7833.4	7543.3	6056.4	4283.9	3100.7	2615.7	2611.1	2692.7	2783.4	2819.7	2855.9
22.5°	8046.5	7597.7	5634.8	3644.7	2574.9	2438.9	2515.9	2638.3	2706.3	2742.6	2797.0
25°	8123.5	7448.1	5072.7	3005.5	2321.0	2357.3	2475.1	2556.7	2642.9	2683.7	2661.0
27.5°	8200.6	7371.0	4401.8	2475.1	2185.0	2302.9	2402.6	2484.2	2511.4	2565.8	2602.1
30°	8386.5	7103.6	3798.8	2139.7	2117.0	2266.6	2339.1	2366.3	2438.9	2470.6	2470.6
32.5°	8536.1	6999.3	3159.7	1981.0	2108.0	2284.7	2293.8	2293.8	2302.9	2280.2	2271.1
35°	8844.3	6641.2	2588.5	1885.8	2103.4	2289.3	2311.9	2234.9	2026.4	1944.8	1922.1
37.5°	9225.1	6410.0	2166.9	1863.2	2135.2	2343.7	2379.9	2089.8	1817.8	1686.4	1663.7
40°	9687.5	6246.8	1890.4	1854.1	2207.7	2470.6	2361.8	1976.5	1622.9	1432.5	1423.4
42.5°	10227.0	6097.2	1704.5	1849.6	2298.3	2602.1	2343.7	1881.3	1423.4	1296.5	1314.6
45°	10657.6	6015.6	1577.6	1817.8	2330.1	2679.1	2357.3	1713.6	1341.8	1260.2	1269.3
47.5°	10993.1	5843.3	1473.3	1763.4	2325.5	2706.3	2234.9	1645.6	1301.0	1323.7	1346.4
50°	11002.2	5612.1	1341.8	1645.6	2257.5	2656.5	2094.4	1582.1	1292.0	1387.2	1432.5
52.5°	10879.8	5285.7	1201.3	1477.8	2098.9	2484.2	1967.4	1554.9	1251.2	1242.1	1296.5
55°	10444.6	4673.8	965.6	1196.8	1772.5	2049.0	1854.1	1505.0	1128.8	1024.5	1033.6
57.5°	8440.9	3350.1	711.7	856.8	1255.7	1500.5	1672.8	1482.4	1015.4	870.4	874.9
60°	5226.8	1899.4	521.3	584.8	775.2	911.2	1355.4	1378.1	906.6	734.4	725.3
62.5°	2683.7	938.4	403.5	412.5	476.0	534.9	929.3	1156.0	820.5	698.1	698.1
65°	897.6	462.4	353.6	317.3	317.3	330.9	562.1	802.4	693.6	584.8	584.8
67.5°	385.3	344.5	308.3	276.5	253.9	240.3	317.3	466.9	516.8	444.3	426.1
70°	299.2	290.1	267.5	231.2	199.5	181.3	185.9	240.3	294.7	285.6	276.5
72.5°	222.1	222.1	213.1	181.3	154.1	131.5	122.4	126.9	140.5	145.1	149.6
75°	154.1	158.7	158.7	140.5	113.3	95.2	81.6	68.0	54.4	45.3	40.8
77.5°	104.3	108.8	117.9	104.3	86.1	63.5	49.9	36.3	22.7	9.1	9.1
80°	90.7	104.3	113.3	104.3	90.7	68.0	49.9	27.2	13.6	0.0	0.0
82.5°	95.2	104.3	117.9	99.7	86.1	63.5	49.9	31.7	13.6	4.5	0.0
85°	22.7	22.7	27.2	31.7	40.8	45.3	36.3	22.7	13.6	4.5	0.0
87.5°	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	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)