

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: P383463

Luminaire Tested: **GLEON-SA7C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383463
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: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 46884.8 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

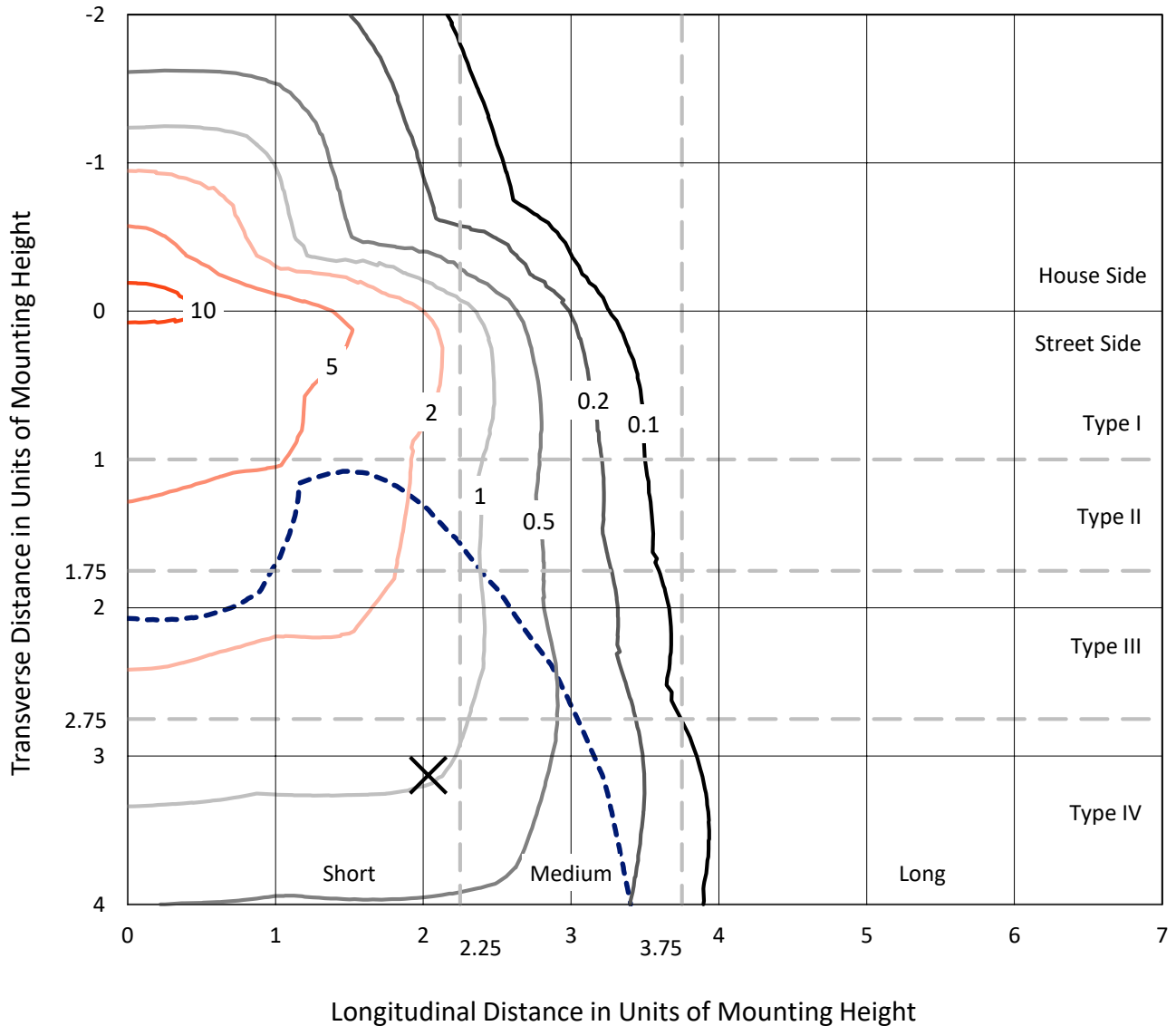
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

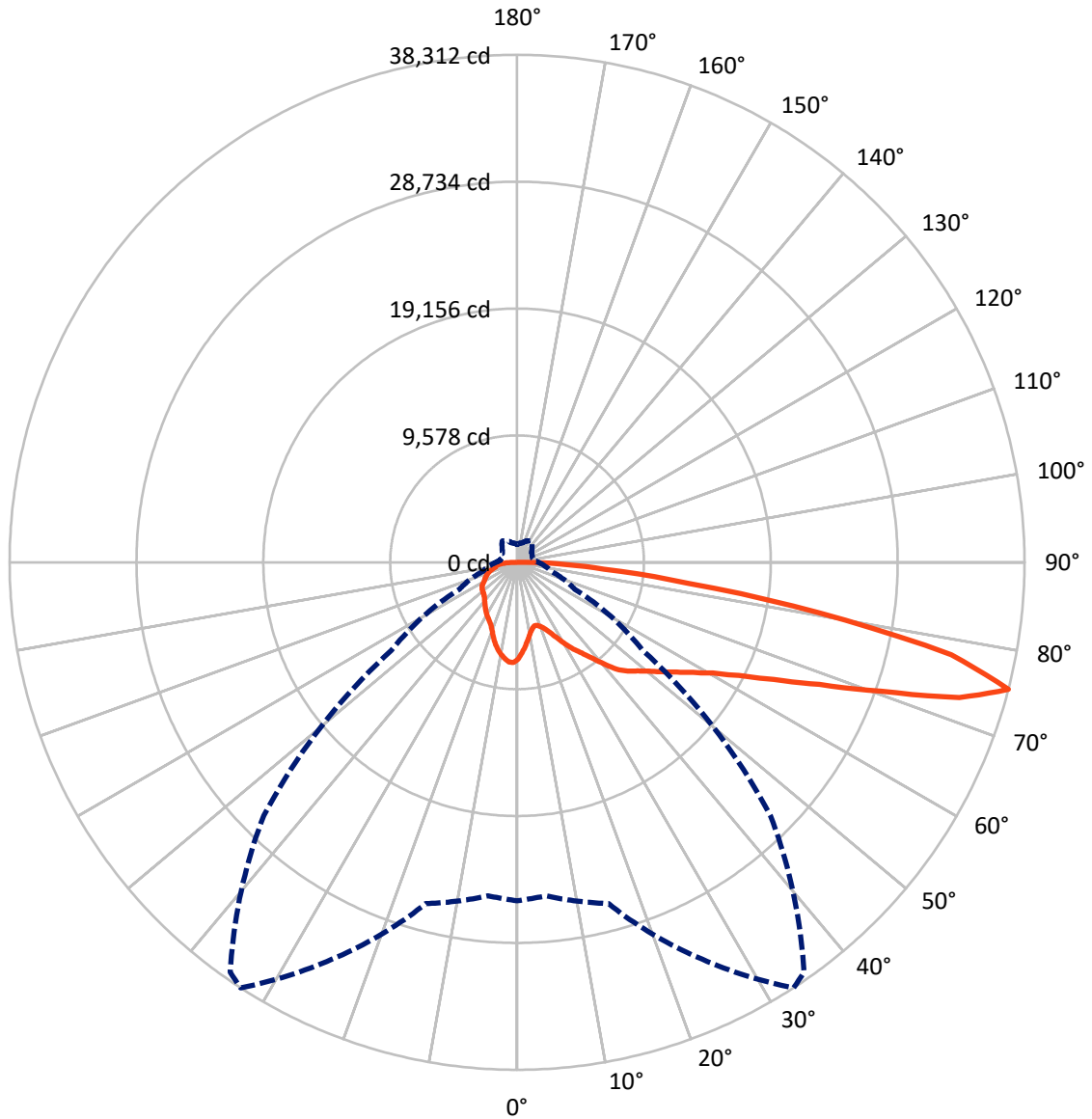
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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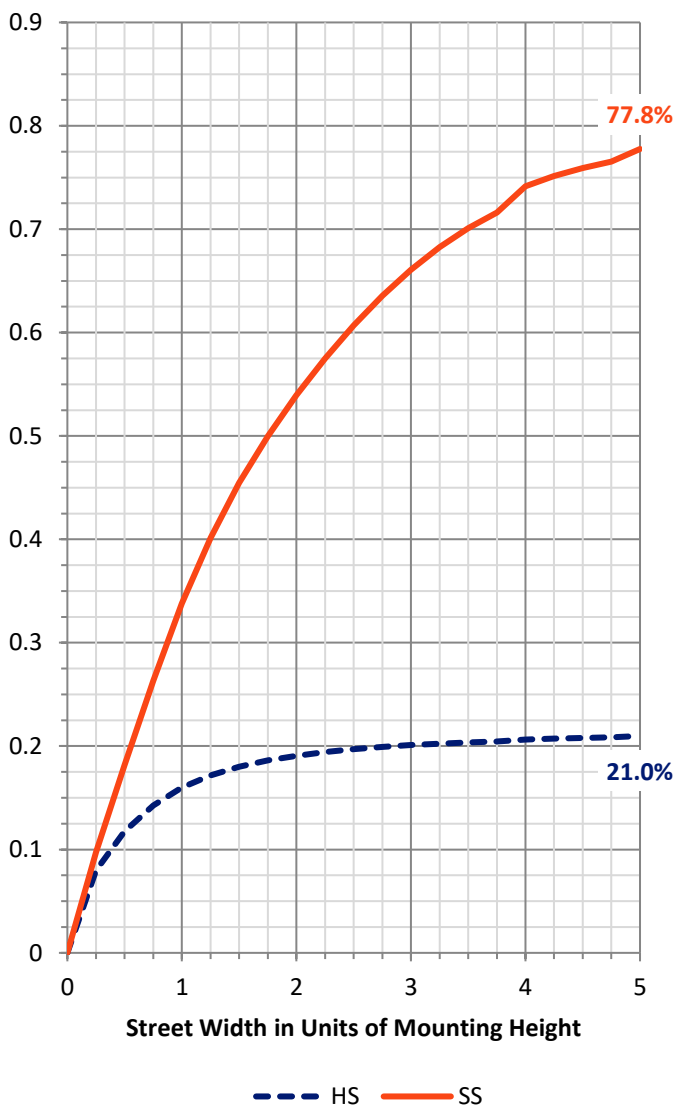
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10067.4	0.0	10067.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36817.4	0.0	36817.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	46884.8	0.0	46884.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.8	1.4
10°-20°	1795.0	3.8
20°-30°	2931.5	6.3
30°-40°	4365.7	9.3
40°-50°	6261.7	13.4
50°-60°	8596.3	18.3
60°-70°	10762.2	23.0
70°-80°	9736.0	20.8
80°-90°	1773.5	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°	46884.8	100.0
0°-180°	46884.8	100.0

Coefficient of Utilization

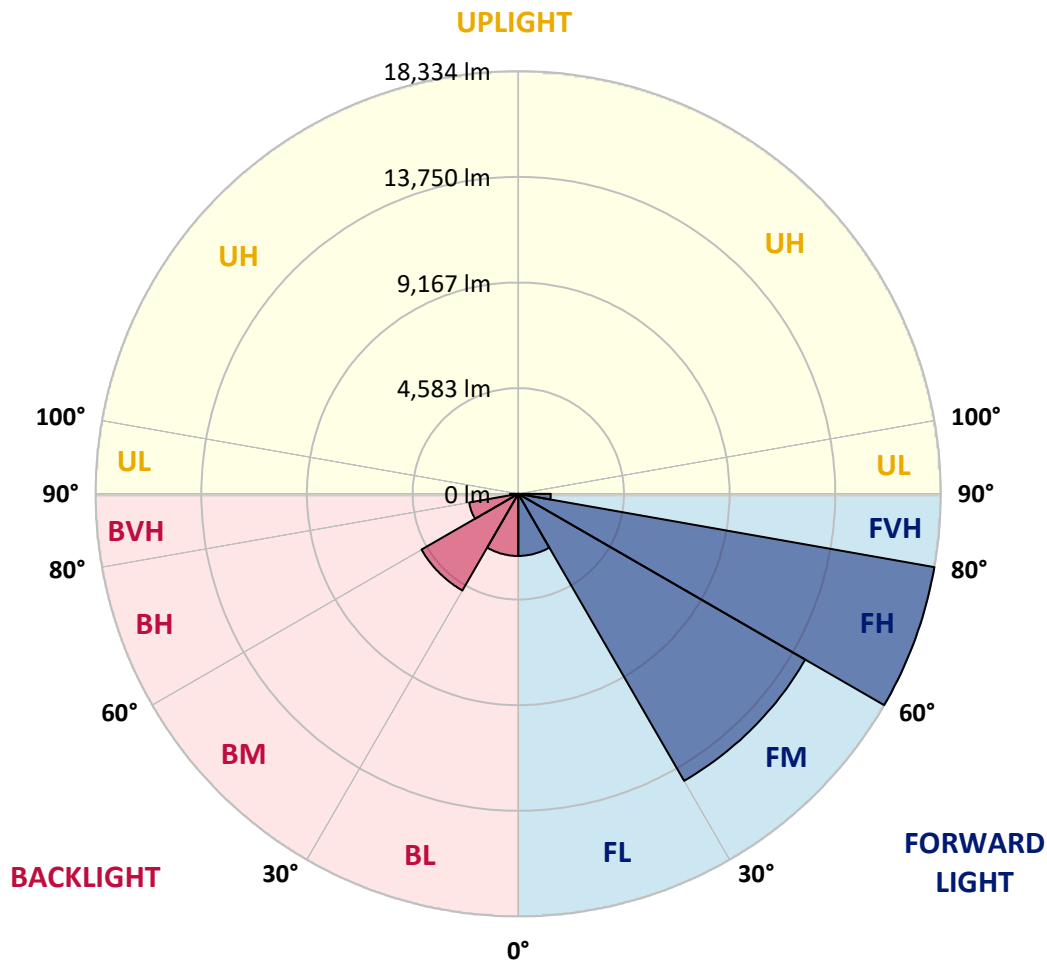


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2692.8	5.7			
FM (30°-60°)	14378.6	30.7			
FH (60°-80°)	18333.6	39.1			G5
FVH (80°-90°)	1412.4	3.0			G5
BL (0°-30°)	2696.5	5.8	B4/5000		
BM (30°-60°)	4845.1	10.3	B3/5000		
BH (60°-80°)	2164.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	361.1	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°	33°	35°	45°	55°	65°	75°	85°
0°	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4
2.5°	6805.2	6779.3	6828.0	6834.4	6876.5	6892.7	6951.0	7041.7	7116.2	7202.1	7279.8
5°	6188.2	6170.4	6238.4	6287.0	6379.3	6418.2	6555.9	6748.6	6920.3	7114.6	7291.1
7.5°	5602.0	5592.3	5668.4	5778.5	5885.3	5938.8	6176.9	6457.0	6743.8	7057.9	7328.4
10°	5108.0	5104.8	5177.6	5286.2	5443.2	5503.1	5810.9	6180.1	6581.8	7014.2	7391.6
12.5°	4831.0	4842.4	4876.4	4967.1	5112.8	5172.8	5514.5	5948.5	6445.8	6999.6	7483.9
15°	4899.1	4916.9	4858.6	4855.3	4959.0	5006.0	5326.6	5783.3	6348.5	7023.9	7618.3
17.5°	5189.0	5192.2	5038.4	4941.2	5004.4	5028.6	5268.3	5689.4	6291.9	7078.9	7786.7
20°	5597.1	5589.0	5316.9	5155.0	5189.0	5195.4	5350.9	5691.0	6287.0	7174.5	8005.3
22.5°	6138.0	6078.1	5712.1	5491.8	5483.7	5474.0	5563.1	5810.9	6358.3	7330.0	8266.1
25°	6844.1	6787.4	6283.8	5982.5	5917.7	5893.4	5906.4	6066.7	6499.1	7496.8	8557.6
27.5°	7629.6	7530.8	7044.9	6619.0	6484.6	6450.6	6372.8	6427.9	6653.0	7657.1	8904.2
30°	8287.1	8233.7	7809.3	7304.1	7145.3	7096.8	6892.7	6832.8	6874.9	7875.8	9341.5
32.5°	8654.7	8619.1	8361.6	7953.5	7806.1	7738.1	7449.9	7330.0	7231.1	8220.7	9934.2
35°	9100.1	9077.5	8922.0	8625.6	8406.9	8335.7	8112.2	7987.5	7733.2	8695.3	10700.2
37.5°	9666.9	9642.6	9645.9	9406.2	9145.5	9079.0	8931.7	8800.5	8384.3	9318.7	11532.7
40°	10308.3	10261.3	10243.5	10232.2	10067.0	10029.7	9952.0	9773.8	9200.5	10063.7	12353.7
42.5°	11273.5	11106.7	10750.4	10884.9	11048.4	11029.0	11092.1	10836.2	10107.5	10944.8	13155.4
45°	12204.8	11931.1	11315.6	11344.8	11702.7	11811.2	12284.1	12102.8	11090.5	11910.0	13984.6
47.5°	12629.1	12421.7	11898.7	11900.2	12255.0	12480.0	13516.6	13387.0	12123.8	13006.5	14996.8
50°	13103.6	12896.3	12426.7	12603.2	12912.5	13152.1	14706.9	14640.5	13106.8	14206.5	16209.9
52.5°	13621.8	13270.4	12972.4	13288.2	13722.3	14000.8	15898.9	15717.5	14008.9	15414.7	17604.3
55°	13628.4	13532.8	13759.5	13991.1	14640.5	14982.3	17147.6	16668.2	14744.2	16601.8	18739.6
57.5°	14404.1	14248.6	14729.6	14836.5	15685.1	16070.6	18389.7	17495.8	15492.4	17512.0	19351.7
60°	15430.8	15298.1	15691.5	15973.3	16977.5	17492.5	19716.1	18346.0	16080.3	18198.6	19322.5
62.5°	17204.2	17053.7	17048.7	17443.9	18796.2	19395.5	21204.4	19180.0	16313.4	18334.6	18498.2
65°	19800.3	19560.6	19108.7	19296.6	21308.1	21905.7	22867.7	19784.1	16005.8	17605.9	16375.0
67.5°	22326.8	22318.7	21763.2	22148.7	24624.9	25104.3	24762.6	19844.0	15045.4	15068.1	12608.0
70°	24845.1	24877.5	24783.6	26124.6	29106.1	29605.0	26780.5	19039.2	12886.6	10881.6	7553.5
72.5°	26840.4	26832.3	27305.2	30762.9	34921.9	34810.1	28481.0	16600.2	9252.3	5874.1	3609.9
75°	25548.1	25266.3	26675.2	33059.4	38311.5	37765.7	27034.7	11579.6	4801.8	2673.8	1943.4
77.5°	16663.3	16930.5	18998.6	27310.1	33511.2	32847.2	19834.3	5402.7	2262.4	1753.9	1409.0
80°	6034.4	6316.2	8896.1	15469.7	23087.9	22979.4	9767.4	2220.3	1530.4	1324.8	1026.8
82.5°	2076.2	2179.9	3509.5	6870.1	13035.6	13521.4	3674.7	1261.6	1112.6	939.3	702.9
85°	814.6	932.9	1605.0	3305.4	6575.2	6623.9	1488.3	754.7	774.1	615.4	385.5
87.5°	309.4	375.7	767.7	1535.3	3002.6	2758.0	532.8	359.6	440.5	366.0	183.0
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°	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4	7328.4
2.5°	7339.7	7373.7	7444.9	7493.6	7545.3	7560.0	7566.4	7579.4	7592.3	7587.5	7589.1
5°	7385.0	7451.4	7566.4	7615.0	7637.7	7611.8	7561.6	7521.0	7492.0	7475.8	7470.9
7.5°	7459.6	7553.5	7676.5	7668.5	7616.6	7501.7	7372.1	7274.9	7194.0	7164.8	7148.6
10°	7558.3	7668.5	7754.3	7662.0	7511.3	7312.2	7117.9	6967.2	6845.8	6798.8	6790.7
12.5°	7684.6	7796.4	7812.6	7616.6	7367.2	7095.1	6831.1	6632.0	6450.6	6392.3	6379.3
15°	7848.2	7953.5	7853.0	7537.2	7189.0	6823.0	6481.3	6210.9	6019.8	5948.5	5922.6
17.5°	8019.9	8120.3	7861.1	7406.1	6955.9	6500.8	6071.6	5794.7	5576.1	5493.4	5483.7
20°	8225.6	8270.9	7827.1	7218.2	6635.2	6082.9	5631.1	5370.4	5253.7	5195.4	5189.0
22.5°	8479.9	8431.3	7749.5	6964.0	6228.7	5600.3	5232.7	5111.2	5082.1	5069.1	5074.0
25°	8748.7	8599.7	7634.4	6632.0	5715.3	5117.7	4941.2	4975.2	5014.1	5009.2	5009.2
27.5°	9045.0	8771.4	7457.9	6191.4	5146.9	4722.6	4743.6	4868.3	4926.6	4925.0	4923.3
30°	9425.7	8965.7	7232.8	5661.9	4615.6	4443.9	4571.9	4724.2	4803.5	4800.3	4801.8
32.5°	9893.7	9179.5	6926.7	5070.7	4231.8	4238.3	4385.6	4536.3	4628.6	4620.5	4622.2
35°	10441.1	9419.2	6512.1	4487.7	3977.5	4074.7	4191.3	4296.6	4384.0	4372.7	4361.4
37.5°	11037.1	9654.0	5961.4	3966.3	3770.3	3922.5	4019.6	4037.5	4077.9	4048.8	4027.7
40°	11603.9	9833.8	5252.2	3538.7	3561.3	3792.9	3856.0	3784.9	3711.9	3702.2	3673.1
42.5°	12097.8	9893.7	4534.7	3197.0	3341.1	3656.9	3695.7	3546.8	3415.6	3354.0	3328.1
45°	12619.3	9914.7	3865.8	2910.2	3128.9	3535.4	3577.5	3378.4	3193.7	3060.9	3017.2
47.5°	13301.2	10067.0	3345.9	2698.1	2967.0	3454.5	3514.4	3243.9	3004.2	2814.8	2774.2
50°	14193.5	10368.2	2923.3	2536.1	2861.7	3401.0	3469.0	3112.8	2848.8	2620.4	2579.9
52.5°	15184.7	10645.2	2581.5	2405.0	2759.7	3307.1	3410.8	3018.8	2703.0	2440.7	2396.9
55°	15877.9	10433.0	2306.2	2269.0	2626.9	3172.7	3329.7	2939.4	2494.0	2265.7	2226.9
57.5°	16010.6	9707.5	2097.3	2128.0	2466.6	3004.2	3205.1	2762.9	2380.7	2189.6	2149.1
60°	15647.9	8696.8	1941.8	1998.4	2294.9	2792.0	2971.8	2638.2	2272.2	2108.7	2074.6
62.5°	14736.1	7662.0	1826.9	1881.9	2134.5	2576.7	2826.0	2507.0	2162.0	2016.3	1982.3
65°	12894.7	6432.8	1716.7	1778.2	1985.5	2390.4	2694.9	2385.6	2053.6	1941.8	1909.4
67.5°	9733.4	4818.1	1613.1	1668.1	1852.8	2228.4	2552.3	2265.7	1948.3	1877.1	1838.1
70°	5731.5	3017.2	1494.9	1553.2	1713.5	2060.0	2400.1	2134.5	1817.1	1784.8	1734.5
72.5°	2667.4	1815.5	1360.4	1417.1	1538.5	1835.0	2204.1	1962.9	1661.6	1590.3	1522.3
75°	1592.0	1328.0	1201.7	1251.9	1337.7	1595.3	1958.0	1787.9	1514.2	1420.3	1349.1
77.5°	1190.3	1015.5	1026.8	1080.2	1149.9	1396.0	1734.5	1650.3	1400.9	1328.0	1279.4
80°	856.7	770.9	837.3	895.6	968.4	1269.7	1661.6	1525.6	1266.4	1169.3	1123.9
82.5°	571.7	553.9	630.0	689.9	761.2	1111.0	1561.2	1336.1	1081.8	958.7	858.3
85°	315.8	333.6	424.3	450.2	511.8	782.2	1279.4	1073.7	814.6	655.9	626.7
87.5°	131.2	153.9	228.3	220.2	272.1	466.4	842.1	647.8	518.2	387.1	301.3
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)