

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: P318853

Luminaire Tested: **GLEON-SA9C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318853
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-SA9C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46763 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

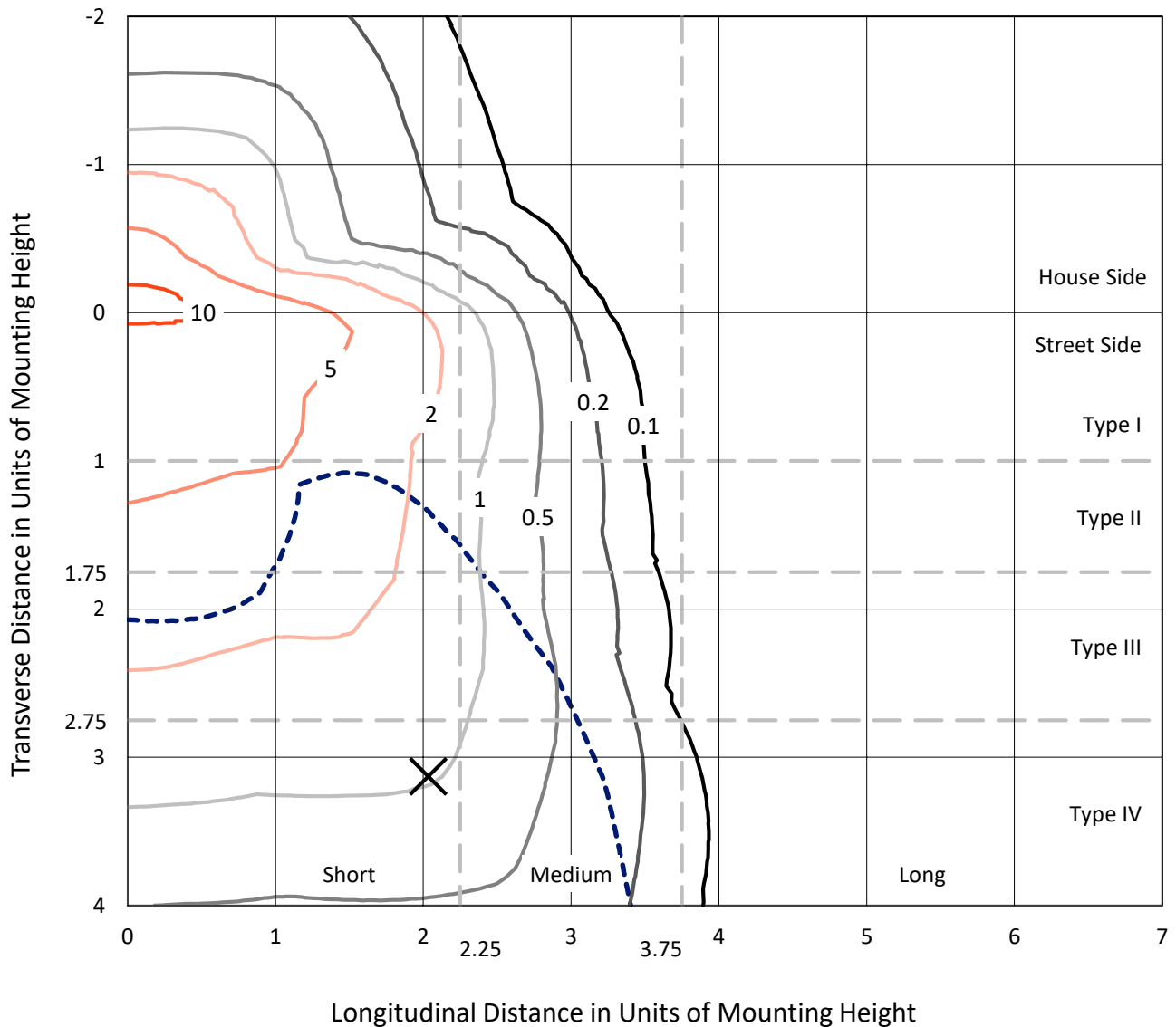
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

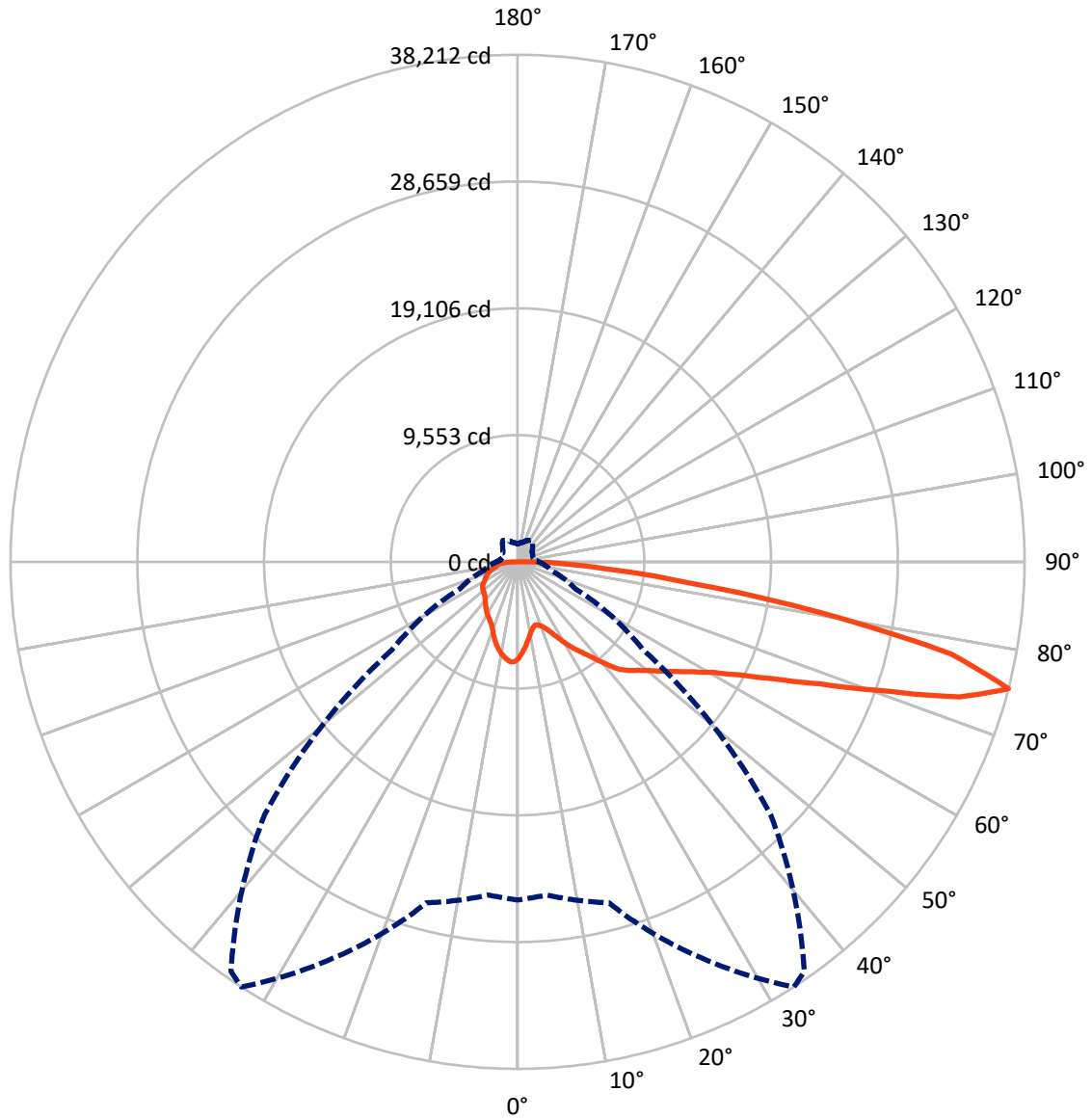
✕ Max cd
 - - - 1/2 Max cd



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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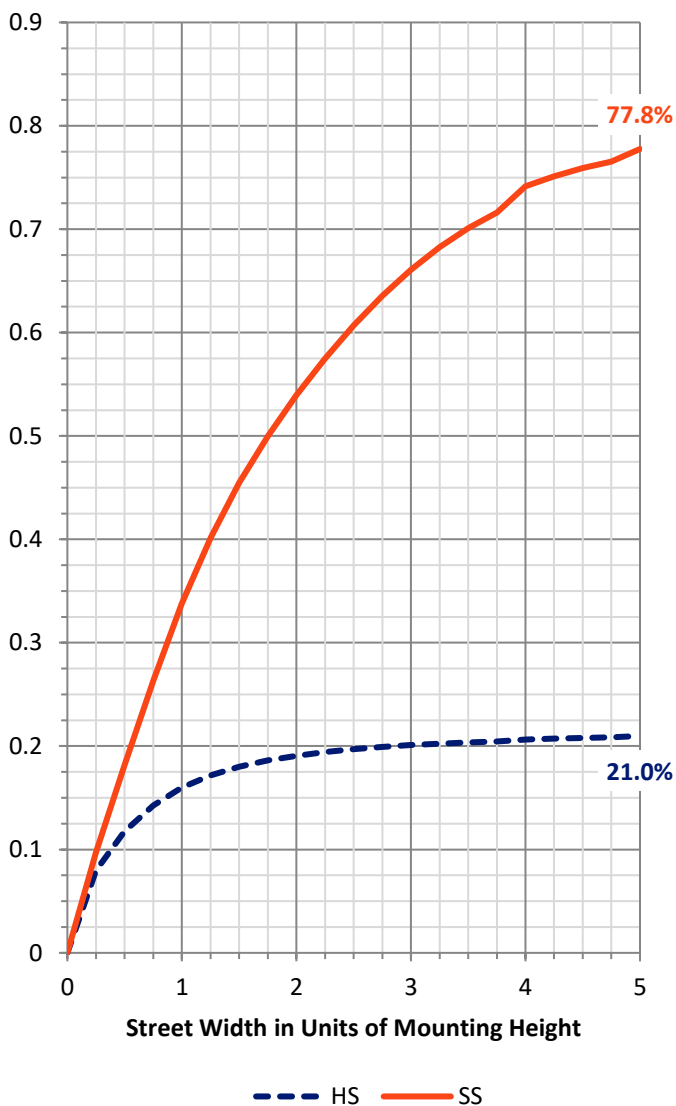
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10041.2	0.0	10041.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36721.7	0.0	36721.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	46763.0	0.0	46763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.0	1.4
10°-20°	1790.4	3.8
20°-30°	2923.9	6.3
30°-40°	4354.4	9.3
40°-50°	6245.4	13.4
50°-60°	8574.0	18.3
60°-70°	10734.2	23.0
70°-80°	9710.8	20.8
80°-90°	1768.9	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°	46763.0	100.0
0°-180°	46763.0	100.0

Coefficient of Utilization

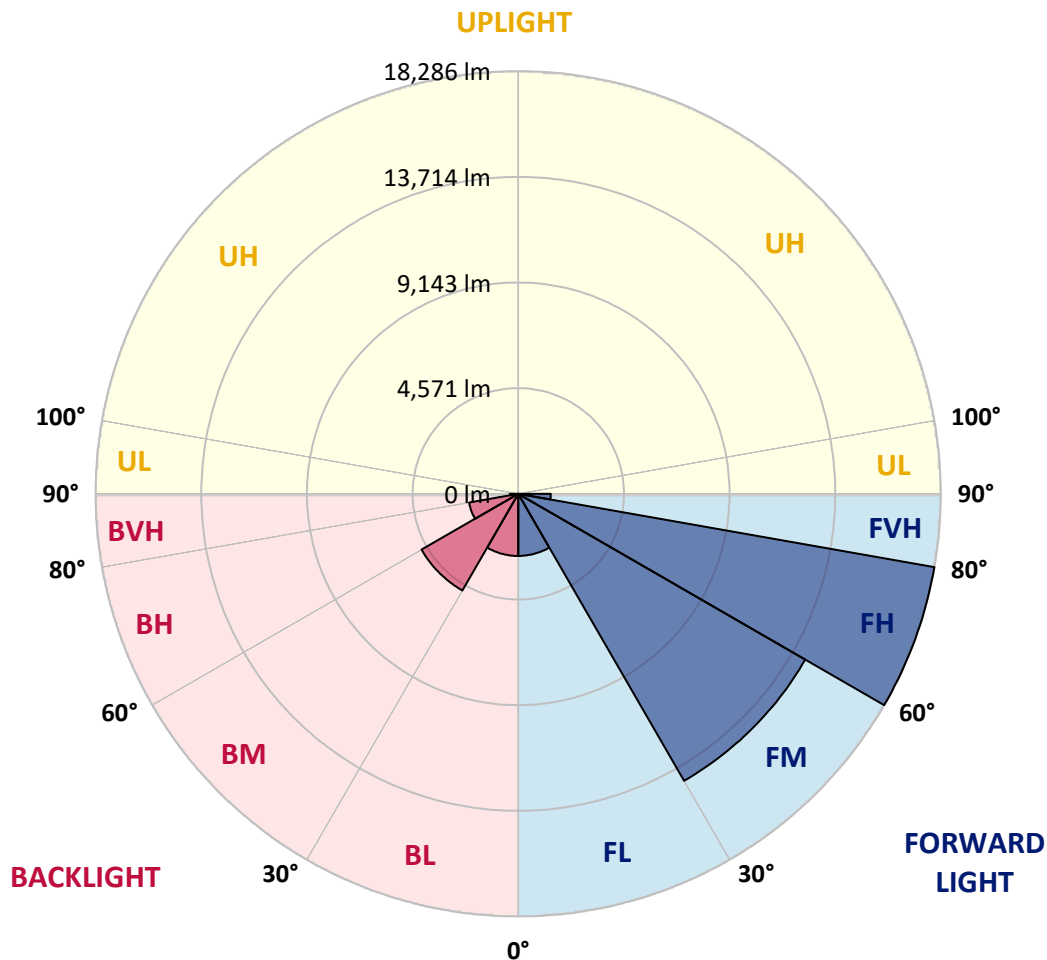


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2685.8	5.7			
FM (30°-60°)	14341.2	30.7			
FH (60°-80°)	18286.0	39.1			G5
FVH (80°-90°)	1408.7	3.0			G5
BL (0°-30°)	2689.5	5.8	B4/5000		
BM (30°-60°)	4832.6	10.3	B3/5000		
BH (60°-80°)	2159.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	360.1	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°	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3
2.5°	6787.6	6761.7	6810.2	6816.6	6858.6	6874.8	6932.9	7023.4	7097.7	7183.3	7260.9
5°	6172.1	6154.4	6222.2	6270.7	6362.7	6401.5	6538.8	6731.0	6902.3	7096.1	7272.2
7.5°	5587.4	5577.7	5653.6	5763.5	5870.1	5923.4	6160.8	6440.3	6726.2	7039.6	7309.3
10°	5094.7	5091.5	5164.2	5272.4	5429.1	5488.9	5795.8	6164.1	6564.7	6995.9	7372.3
12.5°	4818.5	4829.8	4863.7	4954.2	5099.6	5159.3	5500.2	5933.1	6429.0	6981.4	7464.4
15°	4886.3	4904.1	4846.0	4842.7	4946.1	4993.0	5312.8	5768.3	6332.1	7005.6	7598.5
17.5°	5175.5	5178.7	5025.3	4928.3	4991.3	5015.6	5254.6	5674.6	6275.5	7060.6	7766.5
20°	5582.5	5574.5	5303.1	5141.6	5175.5	5181.9	5337.0	5676.2	6270.7	7155.9	7984.5
22.5°	6122.1	6062.3	5697.2	5477.5	5469.5	5459.8	5548.6	5795.8	6341.7	7310.9	8244.6
25°	6826.3	6769.8	6267.4	5967.0	5902.4	5878.1	5891.1	6051.0	6482.3	7477.3	8535.3
27.5°	7609.8	7511.2	7026.6	6601.8	6467.7	6433.8	6356.3	6411.2	6635.7	7637.2	8881.0
30°	8265.6	8212.3	7789.1	7285.1	7126.8	7078.3	6874.8	6815.0	6857.0	7855.3	9317.2
32.5°	8632.3	8596.7	8339.9	7932.8	7785.8	7718.0	7430.5	7310.9	7212.4	8199.4	9908.4
35°	9076.5	9053.9	8898.8	8603.2	8385.1	8314.0	8091.1	7966.8	7713.1	8672.6	10672.4
37.5°	9641.8	9617.6	9620.8	9381.8	9121.7	9055.5	8908.5	8777.6	8362.5	9294.5	11502.7
40°	10281.5	10234.7	10216.9	10205.6	10040.8	10003.7	9926.1	9748.5	9176.6	10037.6	12321.7
42.5°	11244.2	11077.9	10722.5	10856.6	11019.7	11000.3	11063.3	10808.1	10081.2	10916.3	13121.2
45°	12173.0	11900.1	11286.2	11315.3	11672.3	11780.5	12252.2	12071.3	11061.7	11879.1	13948.3
47.5°	12596.3	12389.5	11867.7	11869.4	12223.1	12447.6	13481.5	13352.2	12092.3	12972.6	14957.9
50°	13069.5	12862.8	12394.3	12570.4	12878.9	13118.0	14668.7	14602.5	13072.8	14169.6	16167.7
52.5°	13586.4	13235.9	12938.7	13253.7	13686.6	13964.4	15857.6	15676.7	13972.5	15374.6	17558.5
55°	13592.9	13497.6	13723.8	13954.7	14602.5	14943.3	17103.0	16624.9	14705.9	16558.6	18690.9
57.5°	14366.6	14211.6	14691.3	14797.9	15644.4	16028.8	18341.9	17450.3	15452.1	17466.4	19301.4
60°	15390.8	15258.3	15650.8	15931.9	16933.4	17447.1	19664.9	18298.3	16038.5	18151.3	19272.4
62.5°	17159.5	17009.3	17004.5	17398.6	18747.4	19345.1	21149.4	19130.2	16271.1	18287.0	18450.2
65°	19748.9	19509.8	19059.2	19246.5	21252.8	21848.8	22808.3	19732.7	15964.2	17560.1	16332.5
67.5°	22268.8	22260.7	21706.7	22091.1	24560.9	25039.1	24698.2	19792.5	15006.3	15028.9	12575.3
70°	24780.6	24812.9	24719.2	26056.7	29030.5	29528.0	26710.9	18989.7	12853.1	10853.3	7533.8
72.5°	26770.7	26762.6	27234.3	30683.0	34831.1	34719.7	28407.0	16557.0	9228.3	5858.8	3600.5
75°	25481.7	25200.6	26605.9	32973.5	38212.0	37667.6	26964.5	11549.5	4789.4	2666.9	1938.4
77.5°	16620.0	16886.5	18949.3	27239.1	33424.2	32761.9	19782.8	5388.7	2256.6	1749.4	1405.3
80°	6018.7	6299.7	8872.9	15429.5	23028.0	22919.8	9742.0	2214.6	1526.5	1321.3	1024.1
82.5°	2070.8	2174.2	3500.4	6852.2	13001.7	13486.3	3665.2	1258.3	1109.7	936.9	701.0
85°	812.5	930.4	1600.8	3296.9	6558.2	6606.7	1484.5	752.7	772.1	613.8	384.4
87.5°	308.5	374.8	765.7	1531.3	2994.8	2750.9	531.4	358.6	439.4	365.1	182.5
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°	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3	7309.3
2.5°	7320.6	7354.5	7425.6	7474.1	7525.8	7540.3	7546.8	7559.7	7572.6	7567.8	7569.4
5°	7365.9	7432.1	7546.8	7595.2	7617.8	7592.0	7541.9	7501.5	7472.5	7456.3	7451.5
7.5°	7440.2	7533.8	7656.6	7648.5	7596.8	7482.2	7352.9	7256.0	7175.2	7146.2	7130.0
10°	7538.7	7648.5	7734.1	7642.1	7491.9	7293.2	7099.3	6949.1	6828.0	6781.1	6773.0
12.5°	7664.7	7776.1	7792.3	7596.8	7348.1	7076.7	6813.4	6614.7	6433.8	6375.7	6362.7
15°	7827.8	7932.8	7832.7	7517.7	7170.4	6805.3	6464.5	6194.7	6004.1	5933.1	5907.2
17.5°	7999.1	8099.2	7840.8	7386.9	6937.8	6483.9	6055.8	5779.6	5561.5	5479.2	5469.5
20°	8204.2	8249.4	7806.8	7199.5	6618.0	6067.1	5616.5	5356.4	5240.1	5181.9	5175.5
22.5°	8457.8	8409.4	7729.3	6945.9	6212.5	5585.8	5219.1	5097.9	5068.9	5055.9	5060.8
25°	8726.0	8577.3	7614.6	6614.7	5700.5	5104.4	4928.3	4962.3	5001.0	4996.2	4996.2
27.5°	9021.6	8748.6	7438.5	6175.4	5133.5	4710.3	4731.3	4855.6	4913.8	4912.2	4910.6
30°	9401.2	8942.4	7214.0	5647.2	4603.7	4432.4	4560.0	4711.9	4791.0	4787.8	4789.4
32.5°	9868.0	9155.6	6908.7	5057.6	4220.8	4227.3	4374.3	4524.5	4616.6	4608.5	4610.1
35°	10414.0	9394.7	6495.2	4476.0	3967.2	4064.1	4180.4	4285.4	4372.7	4361.4	4350.1
37.5°	11008.4	9628.9	5946.0	3955.9	3760.5	3912.3	4009.2	4027.0	4067.4	4038.3	4017.3
40°	11573.8	9808.2	5238.5	3529.5	3552.1	3783.1	3846.1	3775.0	3702.3	3692.6	3663.5
42.5°	12066.4	9868.0	4522.9	3188.6	3332.4	3647.4	3686.2	3537.5	3406.7	3345.3	3319.5
45°	12586.6	9889.0	3855.8	2902.7	3120.8	3526.2	3568.2	3369.6	3185.4	3053.0	3009.3
47.5°	13266.6	10040.8	3337.2	2691.1	2959.3	3445.5	3505.2	3235.5	2996.4	2807.4	2767.0
50°	14156.7	10341.3	2915.7	2529.6	2854.3	3392.2	3460.0	3104.6	2841.3	2613.6	2573.2
52.5°	15145.2	10617.5	2574.8	2398.7	2752.5	3298.5	3401.9	3011.0	2696.0	2434.3	2390.7
55°	15836.6	10405.9	2300.2	2263.1	2620.0	3164.4	3321.1	2931.8	2487.6	2259.8	2221.1
57.5°	15969.0	9682.2	2091.8	2122.5	2460.1	2996.4	3196.7	2755.7	2374.5	2183.9	2143.5
60°	15607.2	8674.3	1936.8	1993.3	2288.9	2784.8	2964.1	2631.4	2266.3	2103.1	2069.2
62.5°	14697.8	7642.1	1822.1	1877.0	2129.0	2570.0	2818.7	2500.5	2156.5	2011.1	1977.2
65°	12861.2	6416.0	1712.2	1773.6	1980.4	2384.2	2687.9	2379.4	2048.2	1936.8	1904.5
67.5°	9708.1	4805.6	1608.9	1663.8	1847.9	2222.7	2545.7	2259.8	1943.2	1872.2	1833.4
70°	5716.6	3009.3	1490.9	1549.1	1709.0	2054.7	2393.9	2129.0	1812.4	1780.1	1730.0
72.5°	2660.4	1810.8	1356.9	1413.4	1534.6	1830.2	2198.4	1957.8	1657.3	1586.2	1518.4
75°	1587.9	1324.6	1198.6	1248.6	1334.3	1591.1	1952.9	1783.3	1510.3	1416.6	1345.6
77.5°	1187.3	1012.8	1024.1	1077.4	1146.9	1392.4	1730.0	1646.0	1397.3	1324.6	1276.1
80°	854.5	768.9	835.1	893.3	966.0	1266.4	1657.3	1521.6	1263.2	1166.3	1121.0
82.5°	570.2	552.4	628.4	688.1	759.2	1108.1	1557.2	1332.6	1079.0	956.3	856.1
85°	315.0	332.8	423.2	449.1	510.4	780.2	1276.1	1071.0	812.5	654.2	625.1
87.5°	130.8	153.5	227.8	219.7	271.4	465.2	840.0	646.1	516.9	386.1	300.4
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)