

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: P319794

Luminaire Tested: **GLEON-SA0A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33911 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

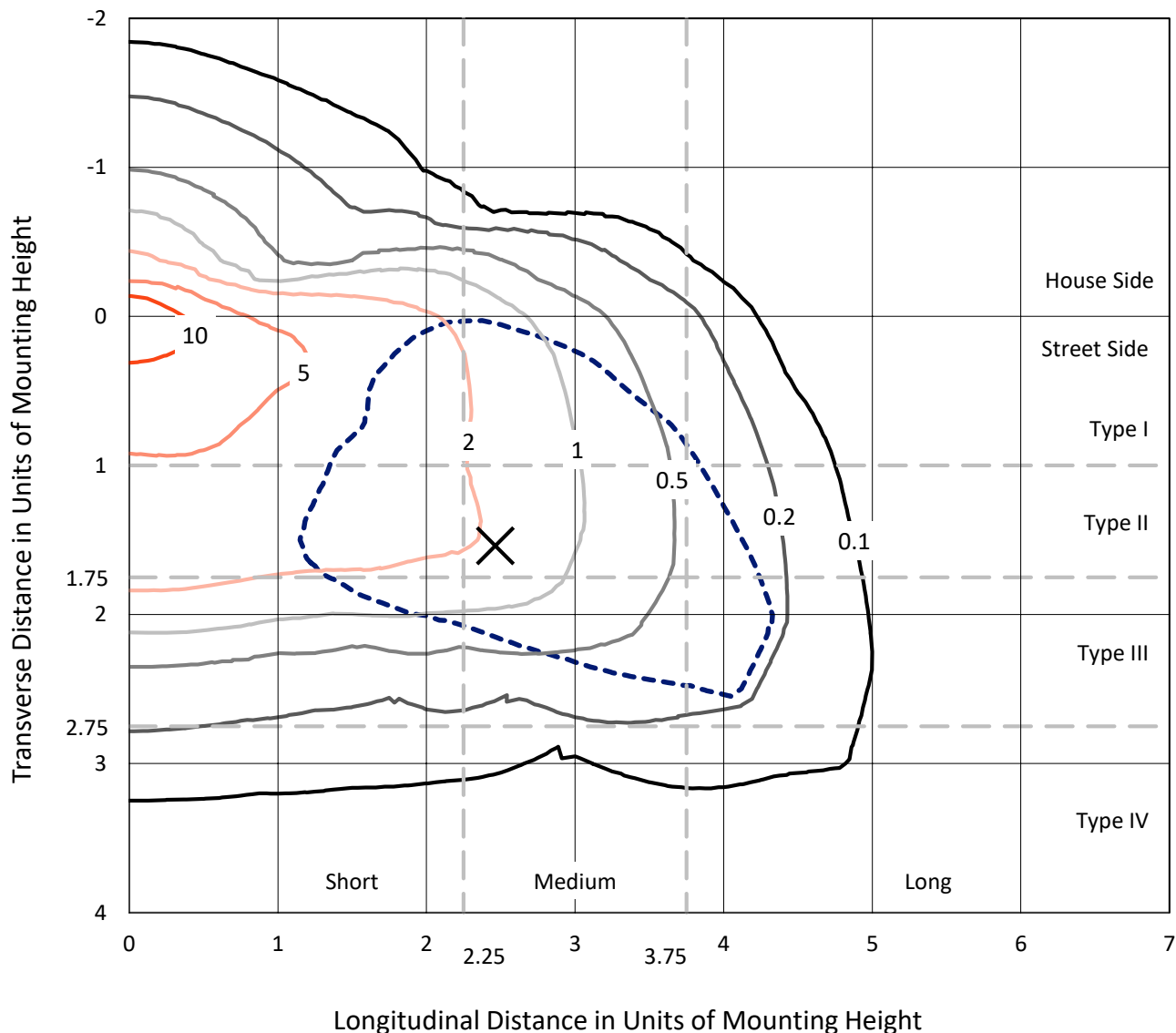
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

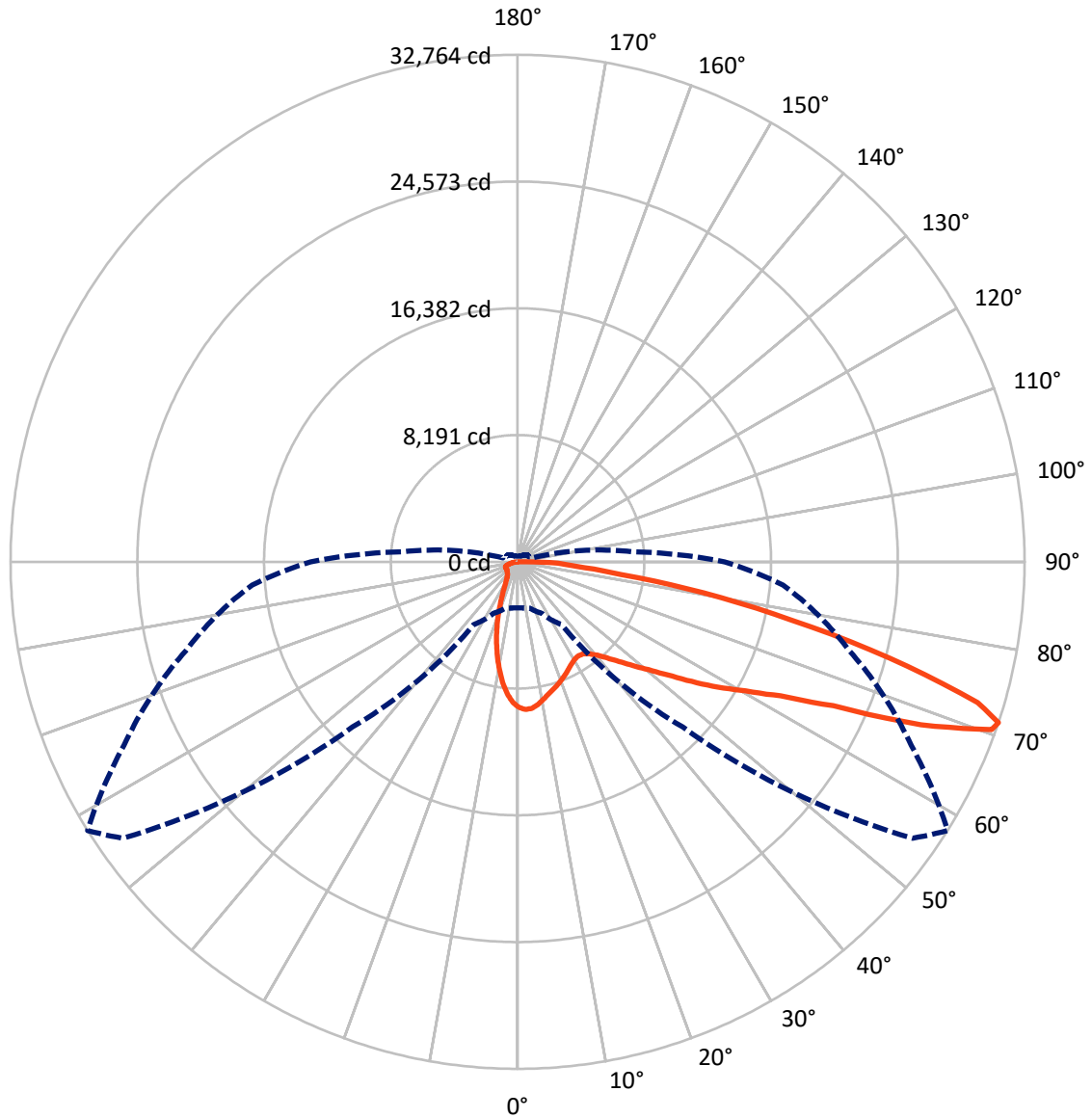
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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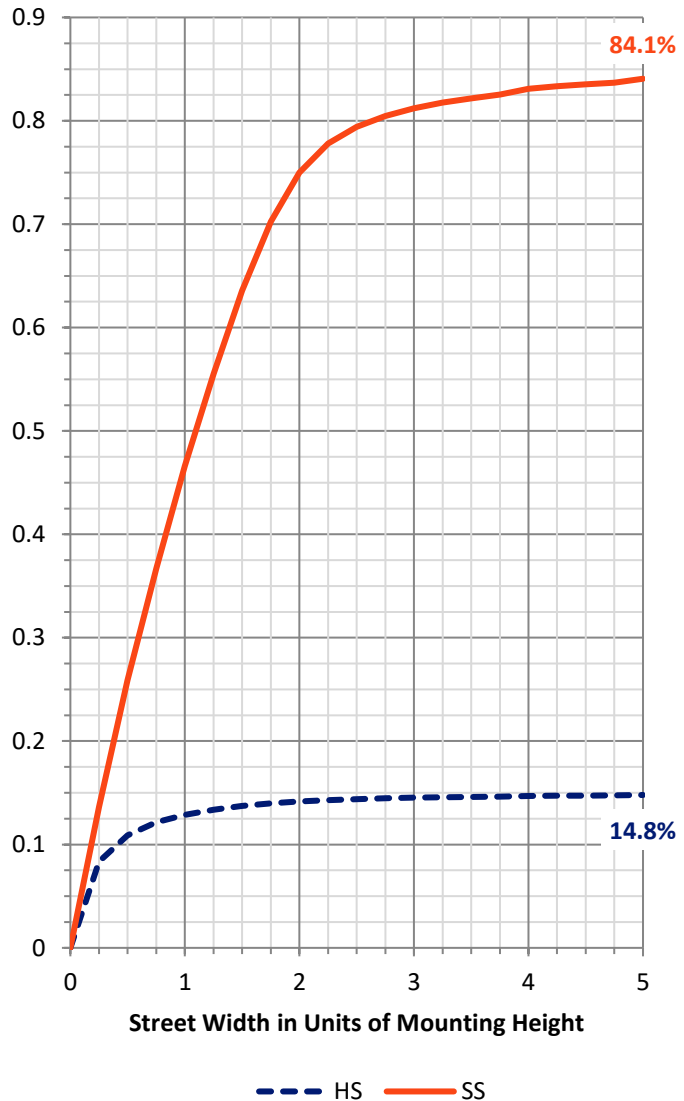
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5069.9	0.0	5069.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28841.1	0.0	28841.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	33911.0	0.0	33911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.6	2.4
10°-20°	1802.4	5.3
20°-30°	2290.6	6.8
30°-40°	2917.8	8.6
40°-50°	4137.6	12.2
50°-60°	6403.1	18.9
60°-70°	8717.0	25.7
70°-80°	5815.2	17.1
80°-90°	1016.7	3.0
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°	33911.0	100.0
0°-180°	33911.0	100.0

Coefficient of Utilization

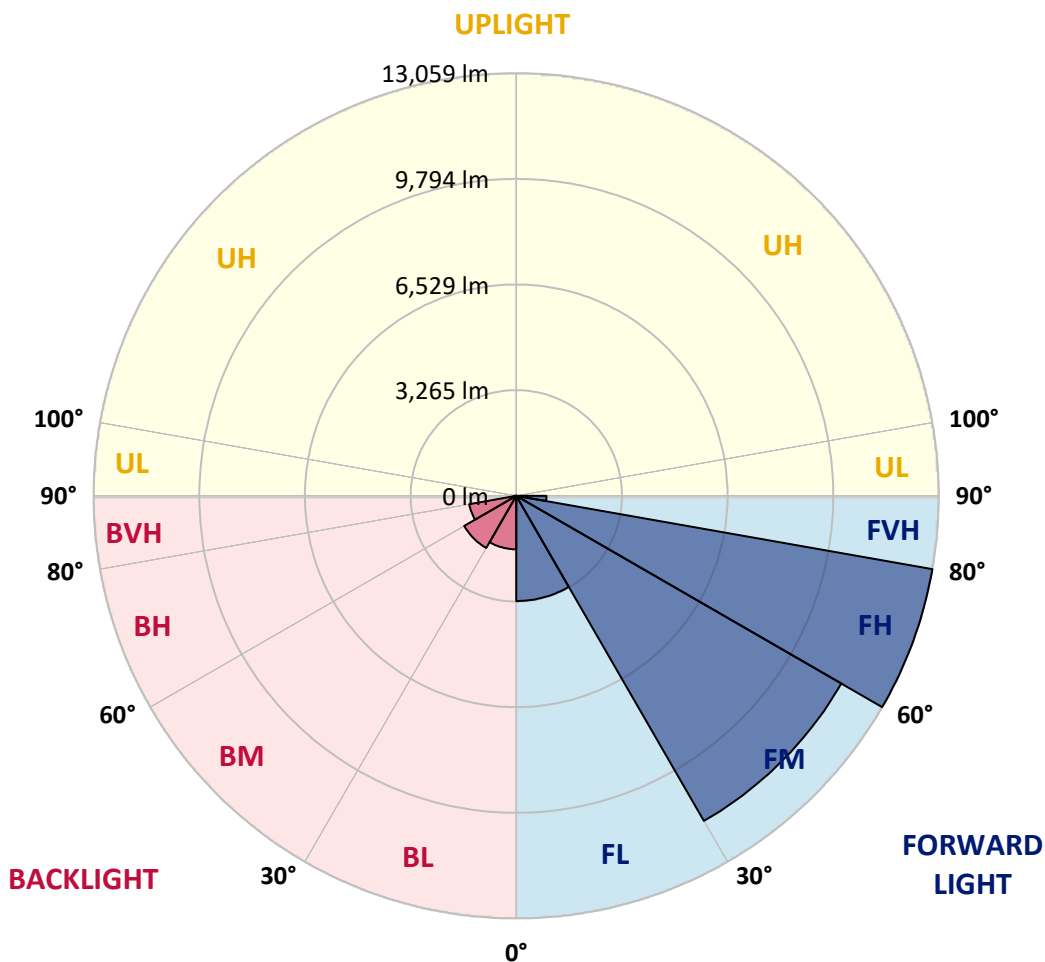


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3250.9	9.6			
FM (30°-60°)	11599.2	34.2			
FH (60°-80°)	13058.7	38.5			G5
FVH (80°-90°)	932.2	2.7			G5
BL (0°-30°)	1652.6	4.9	B3/2500		
BM (30°-60°)	1859.3	5.5	B2/2500		
BH (60°-80°)	1473.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	84.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6
2.5°	9644.9	9631.9	9636.6	9627.1	9604.7	9582.3	9549.2	9555.1	9509.0	9440.5	9355.5
5°	9462.9	9458.2	9493.7	9513.7	9530.3	9517.3	9507.8	9519.6	9452.3	9357.8	9210.2
7.5°	9081.4	9029.4	9074.3	9141.6	9205.4	9253.9	9317.7	9325.9	9283.4	9184.2	8990.4
10°	8539.2	8489.6	8555.7	8660.9	8788.5	8904.2	9033.0	9056.6	9064.9	8975.1	8740.0
12.5°	7976.9	7939.1	8005.3	8152.9	8364.4	8542.8	8748.3	8783.7	8857.0	8796.7	8508.5
15°	7473.7	7459.6	7539.9	7685.2	7928.5	8201.4	8497.9	8562.8	8686.9	8666.8	8327.8
17.5°	7039.0	7035.5	7096.9	7249.3	7518.6	7863.5	8248.6	8358.5	8542.8	8566.4	8178.9
20°	6715.4	6708.3	6750.8	6863.0	7140.6	7531.6	7979.3	8130.5	8396.3	8479.0	8025.4
22.5°	6541.7	6540.5	6541.7	6594.9	6821.7	7185.5	7717.1	7901.3	8253.4	8409.3	7855.3
25°	6512.2	6508.7	6482.7	6476.8	6605.5	6896.1	7457.2	7660.4	8117.5	8360.8	7693.4
27.5°	6589.0	6593.7	6559.4	6503.9	6529.9	6705.9	7231.6	7448.9	8008.8	8351.4	7581.2
30°	6748.4	6746.1	6716.6	6658.7	6607.9	6635.0	7070.9	7288.3	7935.6	8392.7	7504.4
32.5°	6924.5	6937.4	6931.5	6899.6	6824.0	6715.4	7022.5	7235.1	7914.3	8492.0	7471.4
35°	7135.9	7150.1	7192.6	7217.4	7128.8	6954.0	7126.4	7310.7	7975.8	8678.6	7524.5
37.5°	7336.7	7373.3	7492.6	7597.8	7522.2	7327.3	7402.9	7534.0	8165.9	8972.7	7667.5
40°	7568.2	7600.1	7795.0	8018.3	8006.5	7804.5	7848.2	7935.6	8501.4	9394.4	7926.1
42.5°	7796.2	7860.0	8142.3	8458.9	8549.8	8371.5	8441.2	8487.2	8973.9	9953.2	8377.4
45°	8099.8	8168.3	8560.5	8942.0	9154.6	9054.2	9165.3	9183.0	9568.1	10713.9	9033.0
47.5°	8559.3	8637.3	9094.4	9494.8	9819.7	9830.3	10013.4	10006.3	10309.9	11584.5	9858.7
50°	9275.1	9387.3	9761.8	10136.3	10530.8	10750.5	10995.0	10960.8	11199.4	12511.7	10809.6
52.5°	10213.0	10265.0	10542.6	10819.0	11309.2	11801.8	12152.6	12121.9	12208.2	13465.0	11889.2
55°	11185.2	11224.2	11338.8	11490.0	12149.1	12952.3	13694.2	13645.7	13427.2	14454.9	12955.9
57.5°	12059.3	12138.5	12217.6	12280.2	12994.9	14154.8	15271.1	15274.7	14750.2	15522.7	14058.0
60°	12195.2	12264.9	12788.1	13281.9	14441.9	15759.0	16959.1	16923.7	16119.3	16681.5	15286.5
62.5°	10780.0	10937.1	11811.3	13124.8	15835.8	18693.2	19112.5	19068.8	17756.5	18109.7	16717.0
65°	7725.3	7903.7	8958.6	10932.4	15160.1	21926.2	22998.8	22410.6	19989.0	19866.2	18392.0
67.5°	4456.8	4499.4	4956.5	6541.7	11543.1	22095.2	28927.5	28104.2	23456.0	21858.9	19211.8
70°	3295.7	3294.5	3403.2	4025.7	6246.4	18032.9	31747.1	32485.4	27106.0	22514.5	18053.0
71°	2980.3	2983.8	3105.5	3664.2	4947.0	15093.9	31148.2	32764.2	28067.5	22190.8	17214.3
72.5°	2549.1	2560.9	2729.9	3286.2	4161.5	10409.1	28568.4	31091.5	28523.5	21392.3	15901.9
75°	1933.7	1960.9	2194.8	2770.0	3803.6	5279.0	20967.1	24827.4	25338.9	18876.3	11816.0
77.5°	1379.7	1410.4	1675.0	2329.4	3615.8	3978.4	14041.4	18109.7	18647.1	12097.1	5329.8
80°	871.8	908.4	1108.0	1853.4	3397.3	3777.6	8823.9	12172.7	10168.1	3870.9	1356.1
82.5°	511.5	539.8	687.5	1210.8	2774.7	3638.2	5191.6	6747.3	3957.2	1169.4	616.6
85°	296.5	309.5	428.8	771.4	2015.2	3433.9	3814.2	3771.7	1717.5	571.7	291.8
87.5°	138.2	153.6	254.0	402.8	1118.6	2488.9	3014.5	2604.6	1067.8	268.1	137.0
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°	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6	9395.6
2.5°	9314.1	9294.0	9210.2	9135.7	9057.8	8956.2	8844.0	8829.8	8761.3	8774.3	8750.7
5°	9129.8	9079.0	8877.0	8694.0	8477.8	8284.1	8073.8	7976.9	7837.6	7828.1	7792.7
7.5°	8866.4	8771.9	8458.9	8111.6	7764.3	7433.6	7106.4	6891.4	6671.7	6578.3	6570.1
10°	8569.9	8409.3	7948.6	7434.7	6933.9	6450.8	5983.0	5636.9	5325.0	5177.4	5171.5
12.5°	8288.8	8051.4	7419.4	6720.1	6035.0	5408.9	4767.5	4312.7	3921.7	3790.6	3735.1
15°	8050.2	7715.9	6904.4	6010.2	5178.6	4309.2	3579.2	3100.8	2739.3	2614.1	2590.5
17.5°	7818.7	7388.7	6376.4	5293.2	4287.9	3332.3	2601.1	2245.5	2053.0	2002.2	2001.0
20°	7588.3	7052.0	5824.7	4559.6	3426.8	2492.4	1999.8	1840.4	1775.4	1769.5	1760.1
22.5°	7327.3	6695.3	5244.7	3823.7	2674.3	1959.7	1699.8	1636.0	1627.8	1649.0	1649.0
25°	7082.7	6340.9	4656.5	3103.1	2080.2	1634.8	1517.9	1504.9	1527.3	1565.1	1568.7
27.5°	6854.8	5999.5	4082.4	2462.9	1666.7	1439.9	1391.5	1406.9	1447.0	1490.7	1491.9
30°	6666.9	5677.1	3524.8	1940.8	1408.0	1294.6	1286.4	1317.1	1360.8	1395.0	1403.3
32.5°	6521.6	5401.8	2986.2	1560.4	1239.1	1186.0	1193.1	1219.0	1246.2	1265.1	1278.1
35°	6454.3	5165.6	2488.9	1315.9	1131.6	1102.1	1111.6	1125.7	1137.5	1151.7	1162.3
37.5°	6466.1	4982.5	2044.7	1163.5	1059.6	1044.2	1044.2	1044.2	1044.2	1051.3	1052.5
40°	6576.0	4877.4	1683.3	1066.7	1011.1	994.6	981.6	969.8	960.4	965.1	962.7
42.5°	6857.1	4867.9	1418.7	1005.2	972.2	945.0	919.0	902.5	890.7	895.4	897.7
45°	7334.3	4986.0	1240.3	961.5	935.5	894.2	861.1	843.4	835.1	850.5	852.9
47.5°	7952.1	5243.5	1131.6	929.6	901.3	847.0	811.5	795.0	797.3	819.8	825.7
50°	8748.3	5661.7	1079.7	909.6	877.7	806.8	770.2	756.0	763.1	795.0	802.1
52.5°	9622.4	6264.1	1085.6	903.7	862.3	777.3	738.3	721.7	733.6	763.1	769.0
55°	10631.2	6988.2	1183.6	911.9	839.9	758.4	712.3	683.9	693.4	720.6	725.3
57.5°	11752.2	7817.5	1380.9	909.6	811.5	740.6	685.1	642.6	649.7	666.2	670.9
60°	12919.3	8819.2	1686.8	916.6	798.5	719.4	648.5	595.3	593.0	607.2	609.5
62.5°	14320.2	9978.0	2036.5	921.4	806.8	692.2	600.1	548.1	541.0	544.6	546.9
65°	15763.7	10816.7	1905.3	902.5	832.8	669.8	557.5	502.0	489.0	486.7	487.9
67.5°	15808.6	9917.7	1336.0	864.7	843.4	658.0	525.7	463.0	441.8	433.5	432.3
70°	14177.3	8057.3	1040.7	824.5	800.9	639.1	496.1	431.2	399.3	386.3	385.1
71°	13381.1	7417.0	986.3	804.4	769.0	620.2	483.1	417.0	383.9	369.7	367.4
72.5°	12132.6	6649.2	920.2	772.5	707.6	571.7	458.3	396.9	362.6	346.1	342.6
75°	8706.9	4348.2	790.3	688.7	585.9	456.0	401.6	356.7	327.2	307.1	304.8
77.5°	3354.7	1730.5	597.7	572.9	448.9	356.7	330.7	308.3	287.0	267.0	265.8
80°	1037.1	773.7	435.9	431.2	324.8	265.8	257.5	251.6	243.3	222.1	217.3
82.5°	554.0	444.1	300.0	278.8	212.6	177.2	186.6	189.0	190.2	167.7	165.4
85°	264.6	235.1	168.9	158.3	124.0	99.2	114.6	124.0	125.2	102.8	95.7
87.5°	126.4	122.8	79.1	60.2	46.1	33.1	40.2	49.6	54.3	39.0	34.3
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)