

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: P322689

Luminaire Tested: **GLEON-SA5C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18455 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

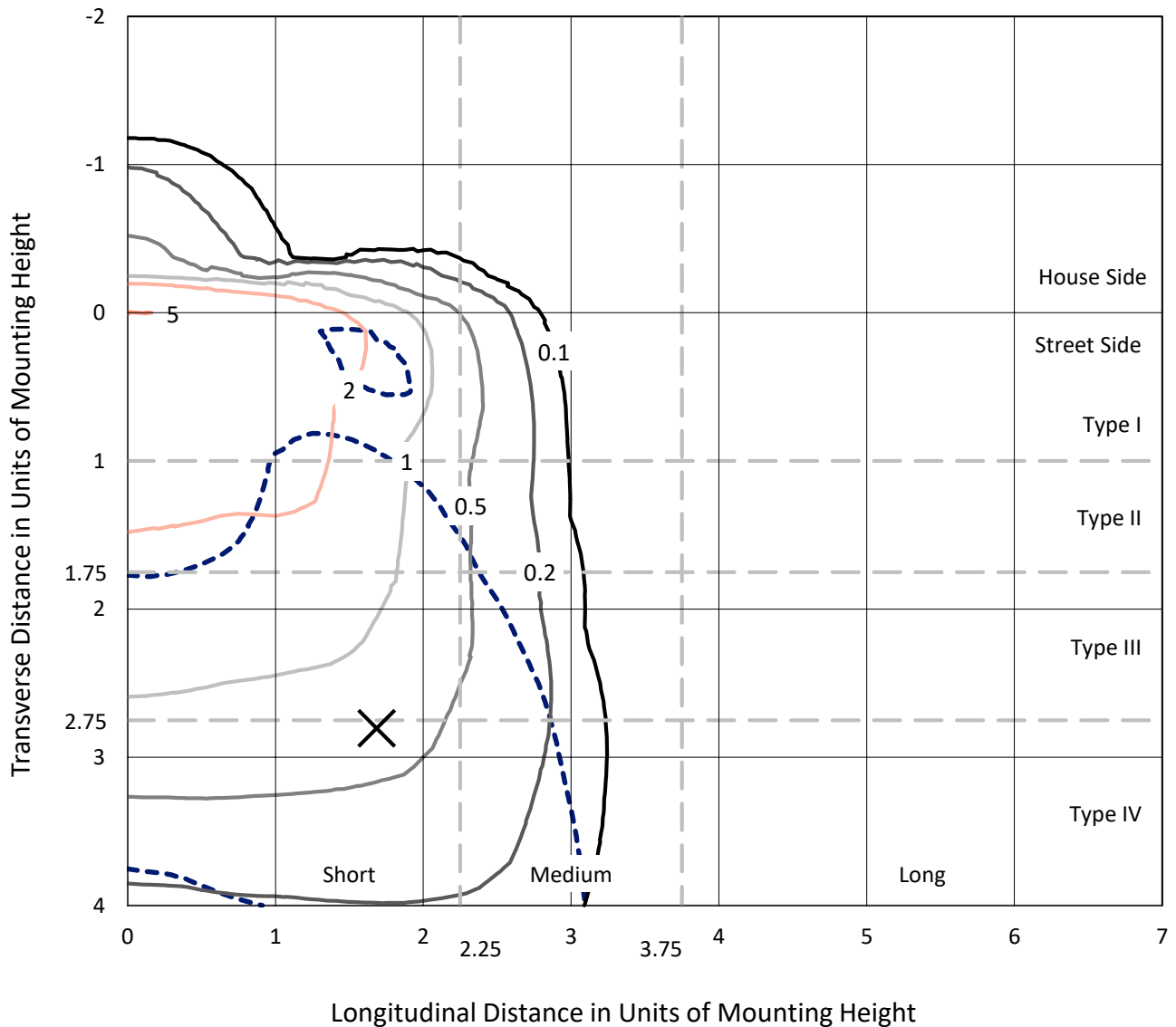
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

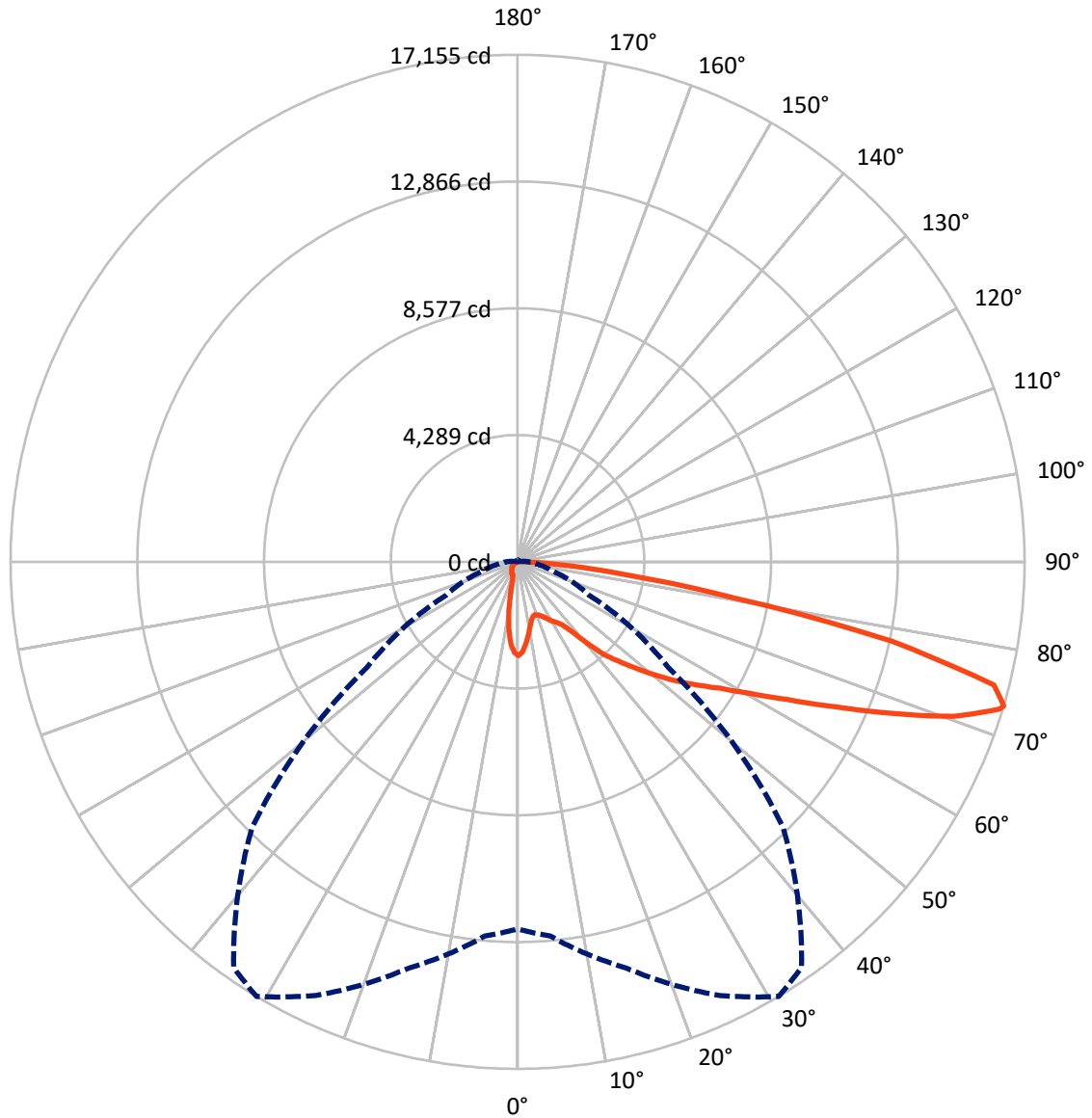
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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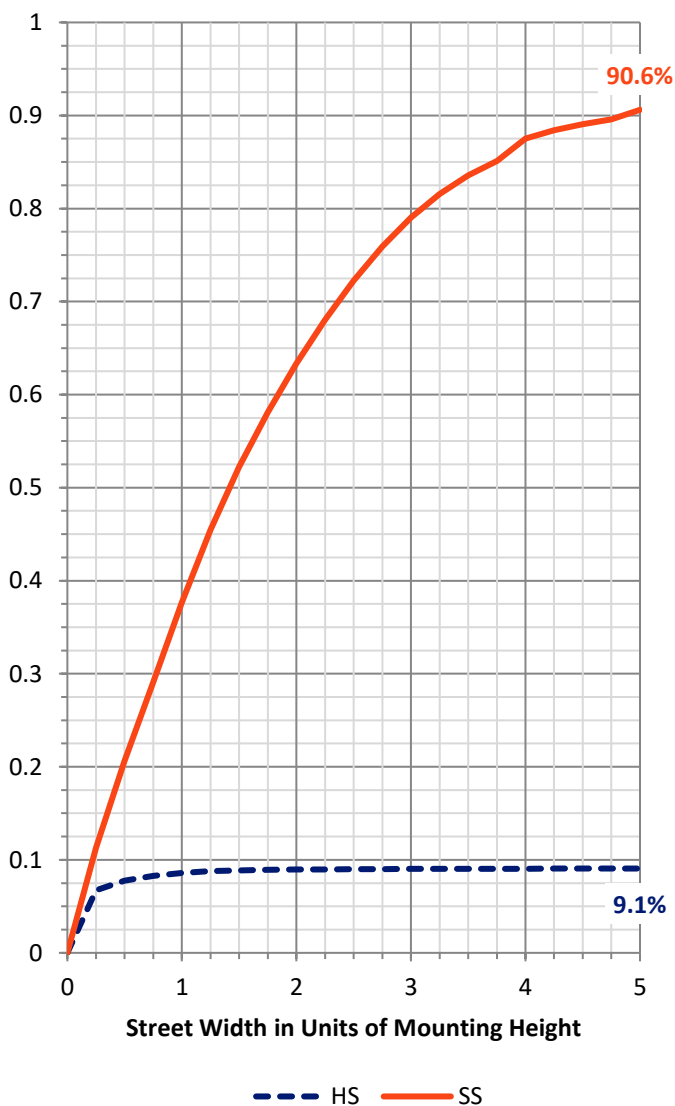
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.2	0.0	1682.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16772.8	0.0	16772.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	18455.0	0.0	18455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.4
10°-20°	571.6	3.1
20°-30°	856.5	4.6
30°-40°	1362.7	7.4
40°-50°	2433.3	13.2
50°-60°	3775.8	20.5
60°-70°	5019.4	27.2
70°-80°	3775.6	20.5
80°-90°	396.7	2.1
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°	18455.0	100.0
0°-180°	18455.0	100.0

Coefficient of Utilization

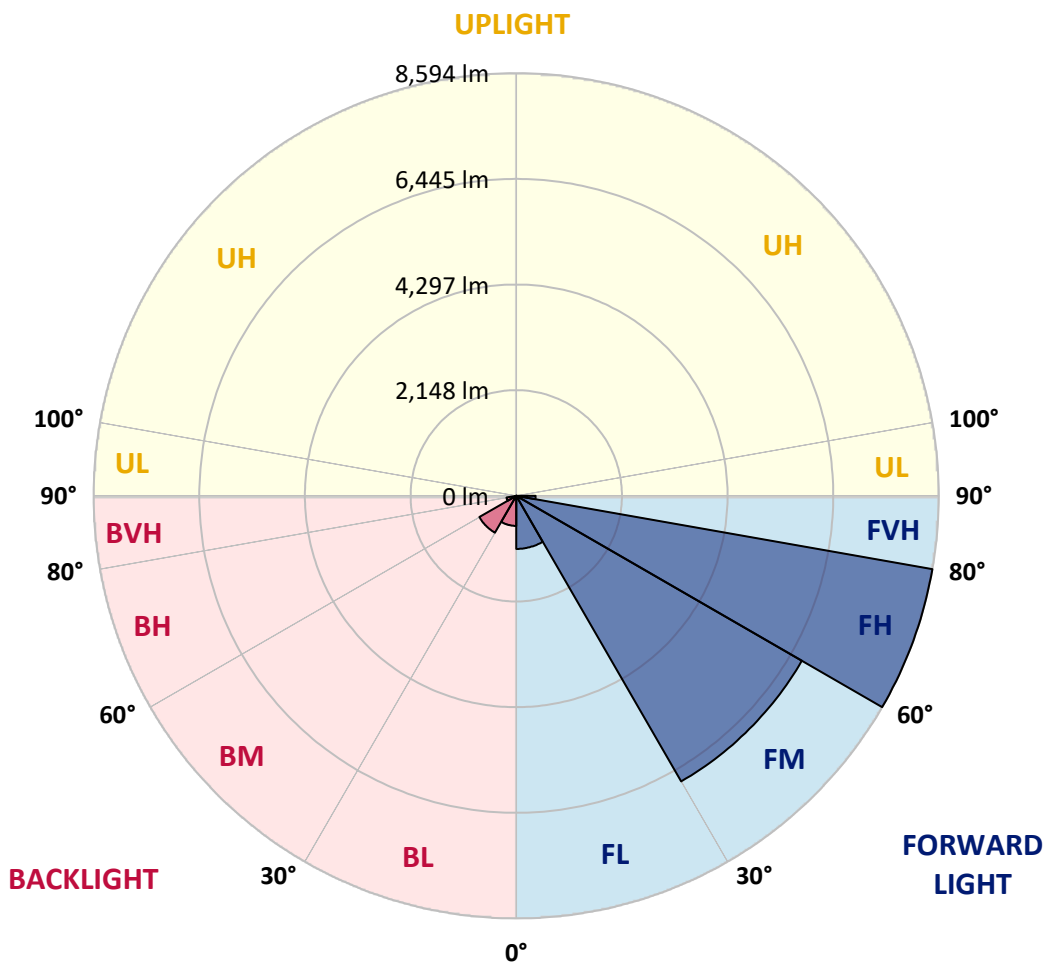


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.6	5.9			
FM (30°-60°)	6705.9	36.3			
FH (60°-80°)	8593.8	46.6			G4/12000
FVH (80°-90°)	393.4	2.1			G3/500
BL (0°-30°)	611.7	3.3	B2/1000		
BM (30°-60°)	865.9	4.7	B1/1000		
BH (60°-80°)	201.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	3009.1	3021.7	3035.2	3038.0	3060.5	3061.4	3093.9	3118.3	3142.7	3166.2	3174.3
5°	2700.2	2721.0	2745.4	2769.7	2817.6	2836.6	2916.0	2997.3	3075.0	3149.0	3185.2
7.5°	2370.6	2394.1	2428.4	2488.9	2542.2	2579.2	2704.7	2849.2	2993.7	3130.1	3208.6
10°	2069.9	2091.5	2127.7	2191.8	2273.9	2324.5	2493.4	2693.9	2906.1	3112.9	3243.9
12.5°	1878.4	1890.1	1910.0	1978.6	2052.7	2109.6	2308.3	2556.6	2833.9	3112.0	3300.7
15°	1843.2	1846.8	1830.5	1861.2	1919.0	1974.1	2175.5	2445.5	2778.8	3126.5	3374.8
17.5°	1899.2	1897.4	1843.2	1839.6	1885.6	1930.8	2110.5	2368.8	2739.9	3159.9	3470.5
20°	1984.1	1977.7	1883.8	1866.7	1915.4	1957.9	2106.0	2339.9	2725.5	3215.9	3587.0
22.5°	2096.9	2086.1	1938.9	1920.8	1973.2	2017.5	2162.0	2367.9	2738.1	3290.8	3722.5
25°	2236.9	2220.7	2033.7	2013.9	2067.1	2111.4	2262.2	2448.2	2776.1	3382.0	3894.1
27.5°	2395.0	2371.5	2185.4	2134.0	2194.5	2240.5	2395.9	2571.1	2835.7	3478.7	4104.5
30°	2544.0	2513.3	2345.3	2260.4	2334.5	2385.9	2540.4	2717.4	2931.4	3627.7	4392.6
32.5°	2693.9	2659.6	2488.0	2386.8	2453.7	2509.7	2689.4	2918.7	3111.1	3855.2	4775.5
35°	3038.9	3002.7	2792.3	2625.2	2624.3	2656.0	2898.0	3194.2	3348.6	4172.2	5232.4
37.5°	3619.5	3598.8	3398.3	3081.3	2996.4	2961.2	3182.4	3522.9	3690.0	4608.4	5748.1
40°	4255.3	4237.2	4012.4	3725.2	3596.1	3509.4	3590.6	3980.8	4172.2	5141.2	6274.6
42.5°	4973.2	4887.5	4486.5	4400.7	4285.1	4219.2	4146.0	4545.2	4764.6	5721.0	6796.6
45°	5625.3	5480.8	4960.6	4830.6	4804.4	4820.6	4861.3	5303.8	5431.1	6410.0	7316.7
47.5°	6013.6	5899.8	5500.6	5376.0	5368.8	5476.3	5783.3	6160.8	6094.9	7010.6	7774.6
50°	6383.0	6280.0	5948.6	5979.3	6012.7	6159.0	6830.0	7042.2	6700.8	7555.1	8194.5
52.5°	6681.9	6524.7	6351.3	6523.8	6688.2	6923.9	7910.1	7833.3	7130.7	7988.6	8554.0
55°	6854.4	6783.0	6867.0	7040.4	7349.2	7732.1	8929.6	8491.6	7445.0	8384.2	8793.3
57.5°	7486.5	7346.5	7513.6	7663.5	8066.3	8601.8	9802.9	8982.0	7671.6	8628.9	8848.4
60°	8251.4	8138.5	8237.0	8486.2	9029.9	9659.3	10619.3	9382.1	7789.9	8786.0	8705.7
62.5°	9468.8	9319.8	9258.4	9537.4	10258.1	10945.3	11238.8	9659.3	7763.8	8716.5	8216.2
65°	11099.7	10945.3	10670.8	10923.6	11840.2	12325.2	11931.5	9718.0	7583.1	8153.9	6979.0
67.5°	12770.4	12658.4	12423.6	12849.9	13677.1	13833.3	12663.9	9575.3	7001.6	6611.4	4930.8
70°	13874.0	13826.1	13978.7	14921.5	15659.4	15614.2	13335.7	8808.6	5457.3	4065.7	2439.2
72.5°	13078.4	13307.8	14434.8	16144.3	17045.6	16677.1	12990.8	6764.1	3119.2	1564.1	705.3
73°	12419.1	12712.6	14229.8	16190.4	17154.9	16751.2	12700.9	6208.7	2658.7	1234.5	534.6
75°	8639.7	9000.1	11780.6	15078.7	16643.7	15960.1	10586.8	3800.2	1231.8	547.3	215.8
77.5°	4194.8	4461.2	6486.8	10894.7	12943.8	12469.7	6590.7	1416.0	556.3	342.3	99.3
80°	1565.9	1741.1	2815.8	5544.9	7480.2	7676.2	2898.9	535.5	370.3	275.4	50.6
82.5°	410.0	457.0	1038.5	2472.6	3833.6	4012.4	913.9	270.0	270.9	226.7	30.7
85°	130.9	149.9	324.2	1109.9	1806.2	1585.8	238.4	130.9	196.9	168.9	17.2
87.5°	16.3	20.8	103.0	261.0	398.3	221.3	37.0	38.8	84.0	93.9	9.9
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°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	3182.4	3177.9	3178.8	3155.4	3140.0	3109.3	3077.7	3063.2	3047.9	3041.6	3047.9
5°	3198.7	3190.6	3167.1	3094.8	3018.1	2918.7	2825.7	2755.3	2666.8	2642.4	2667.7
7.5°	3224.0	3207.7	3139.1	2991.9	2821.2	2631.6	2418.4	2263.1	2135.8	2053.6	2083.4
10°	3261.0	3230.3	3092.1	2842.0	2536.7	2200.8	1898.3	1662.6	1495.5	1426.9	1424.2
12.5°	3323.3	3265.5	3034.3	2646.9	2189.1	1741.1	1344.7	1089.1	953.6	866.1	864.2
15°	3392.0	3307.1	2961.2	2413.0	1784.5	1247.2	866.1	671.9	584.3	556.3	552.7
17.5°	3475.9	3354.9	2866.4	2124.9	1360.9	826.3	565.3	509.3	505.7	503.0	503.0
20°	3581.6	3411.8	2744.5	1795.3	965.4	551.8	480.4	484.0	485.9	482.2	483.1
22.5°	3704.4	3469.6	2599.1	1441.3	652.9	461.5	459.7	464.2	466.0	464.2	465.1
25°	3847.1	3536.5	2422.1	1070.1	471.4	438.0	442.5	448.8	453.3	453.3	453.3
27.5°	4024.1	3617.7	2208.9	746.8	407.3	413.6	426.3	438.0	444.3	446.1	446.1
30°	4254.4	3718.9	1953.4	512.0	370.3	381.1	404.6	427.2	438.9	440.7	441.6
32.5°	4545.2	3832.7	1657.1	378.4	338.7	346.8	372.1	410.0	432.6	436.2	436.2
35°	4878.4	3964.5	1338.4	329.6	316.1	318.8	338.7	382.0	421.7	431.7	432.6
37.5°	5243.3	4094.6	1017.8	307.9	297.1	297.1	311.6	348.6	395.5	426.3	429.9
40°	5583.7	4173.1	713.4	290.8	280.0	280.0	292.6	319.7	363.9	410.0	419.9
42.5°	5898.0	4200.2	496.7	274.5	263.7	266.4	277.2	298.9	332.3	378.4	387.4
45°	6221.3	4195.7	362.1	255.6	247.4	255.6	263.7	280.0	304.3	330.5	332.3
47.5°	6465.1	4157.8	287.2	237.5	232.1	242.9	250.2	261.0	274.5	272.7	272.7
50°	6693.6	4065.7	231.2	213.1	216.7	229.4	233.0	236.6	237.5	220.4	218.5
52.5°	6867.0	3922.1	185.1	186.9	201.4	214.0	210.4	205.0	196.0	175.2	171.6
55°	6924.8	3645.7	145.4	154.4	178.8	195.1	181.5	169.8	152.6	135.5	131.8
57.5°	6820.0	3289.0	118.3	120.1	150.8	164.4	149.0	135.5	116.5	102.0	99.3
60°	6597.9	2892.6	97.5	90.3	116.5	128.2	118.3	104.8	87.6	76.8	75.9
62.5°	6157.2	2469.9	80.4	70.4	88.5	98.4	92.1	82.2	67.7	60.5	59.6
65°	5230.6	1975.9	65.0	56.9	68.6	76.8	71.3	64.1	53.3	47.9	47.0
67.5°	3651.1	1335.7	53.3	47.0	54.2	60.5	56.0	52.4	42.4	41.5	42.4
70°	1761.0	643.9	44.3	37.9	42.4	47.0	45.2	42.4	40.6	47.0	54.2
72.5°	504.8	215.8	35.2	31.6	34.3	37.0	38.8	37.9	44.3	56.9	65.9
73°	388.3	174.3	33.4	29.8	32.5	36.1	37.9	37.0	45.2	57.8	65.9
75°	166.2	84.0	25.3	24.4	27.1	31.6	33.4	33.4	45.2	58.7	63.2
77.5°	75.0	45.2	16.3	19.0	23.5	25.3	28.0	28.0	36.1	45.2	45.2
80°	42.4	24.4	12.6	14.4	17.2	17.2	17.2	15.4	16.3	18.1	19.9
82.5°	27.1	16.3	9.9	11.7	10.8	9.0	7.2	7.2	6.3	7.2	9.0
85°	15.4	9.0	9.0	7.2	4.5	3.6	4.5	3.6	0.9	0.0	0.9
87.5°	9.0	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	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)