

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: P949843

Luminaire Tested: **GALN-SB4C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18949 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

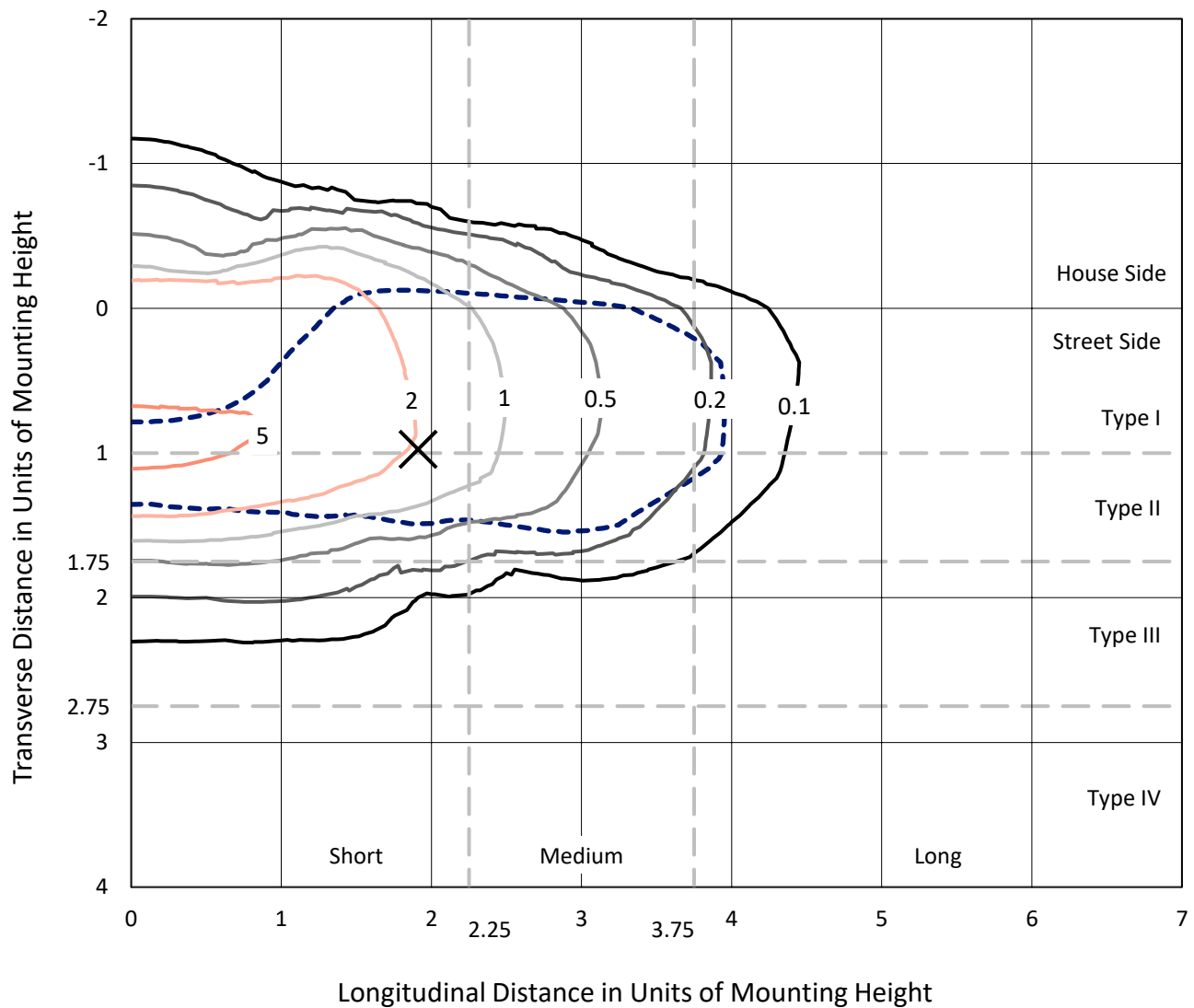


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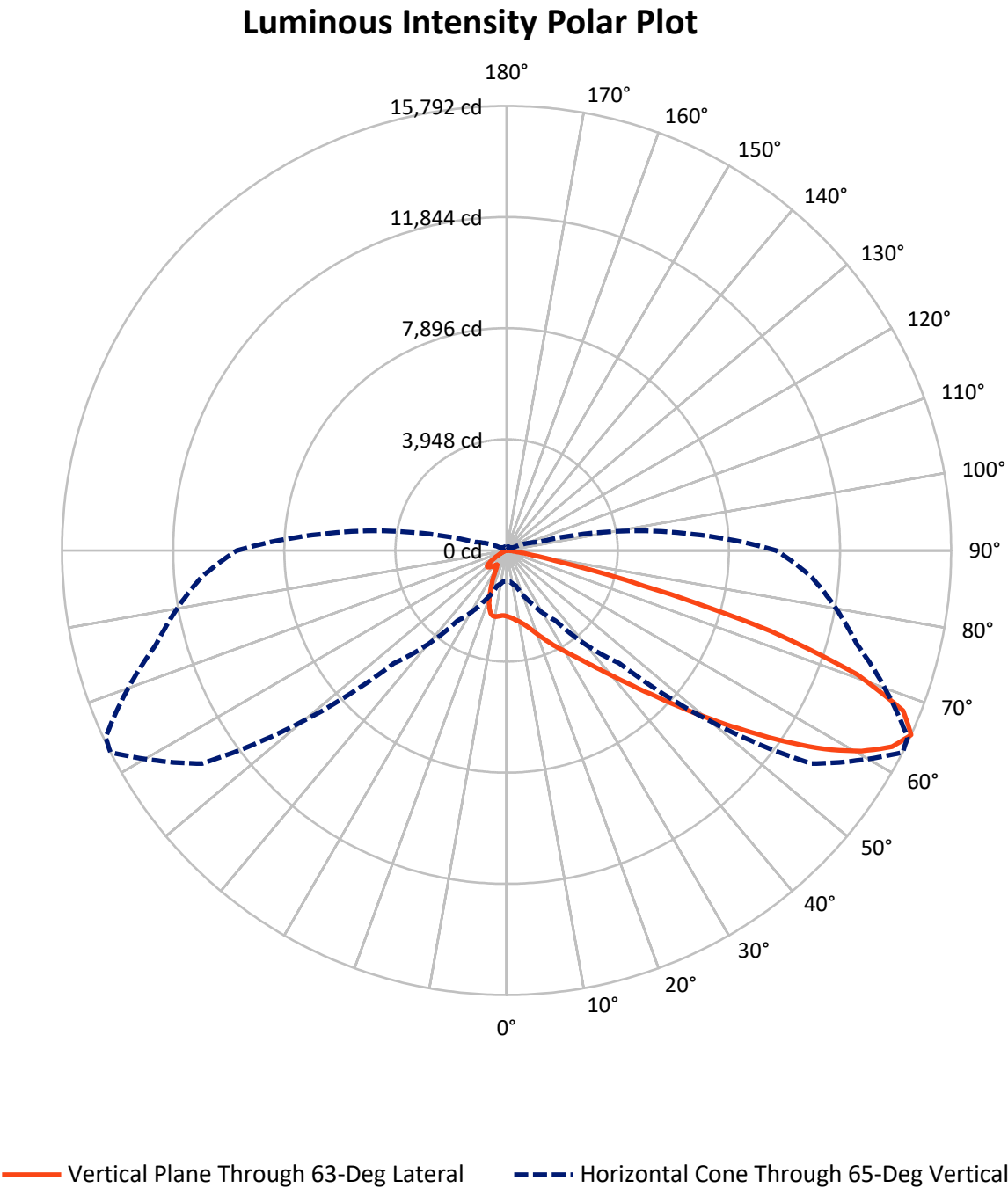
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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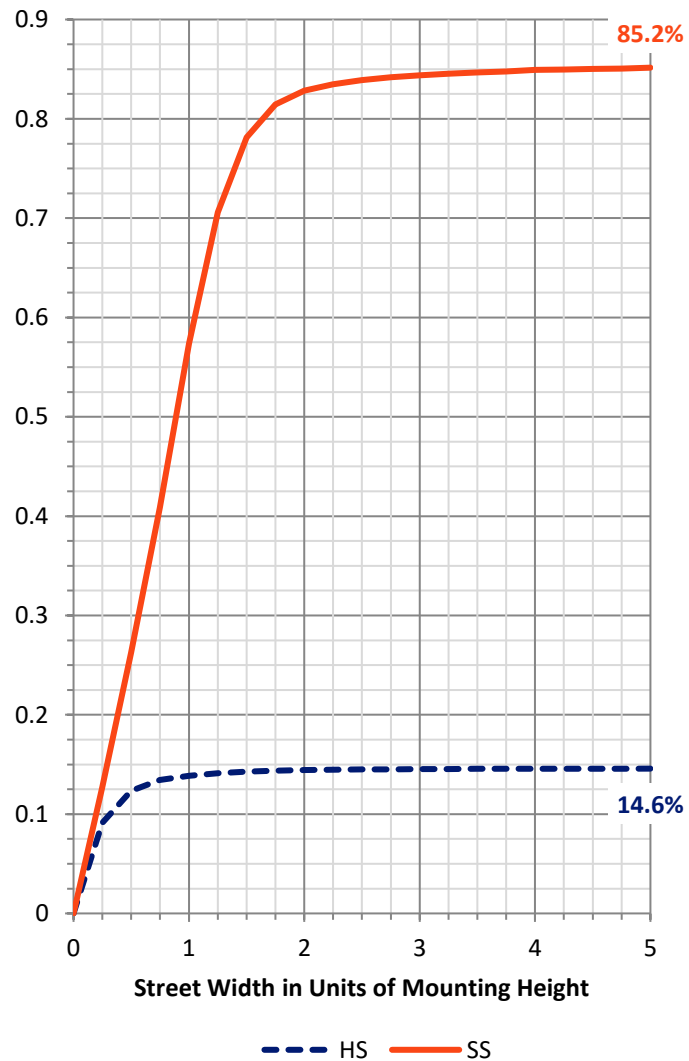
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.4	0.0	2785.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16163.6	0.0	16163.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	18949.0	0.0	18949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.2
10°-20°	611.4	3.2
20°-30°	1064.6	5.6
30°-40°	1918.8	10.1
40°-50°	3805.5	20.1
50°-60°	5183.8	27.4
60°-70°	4137.6	21.8
70°-80°	1872.4	9.9
80°-90°	134.6	0.7
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°	18949.0	100.0
0°-180°	18949.0	100.0

Coefficient of Utilization



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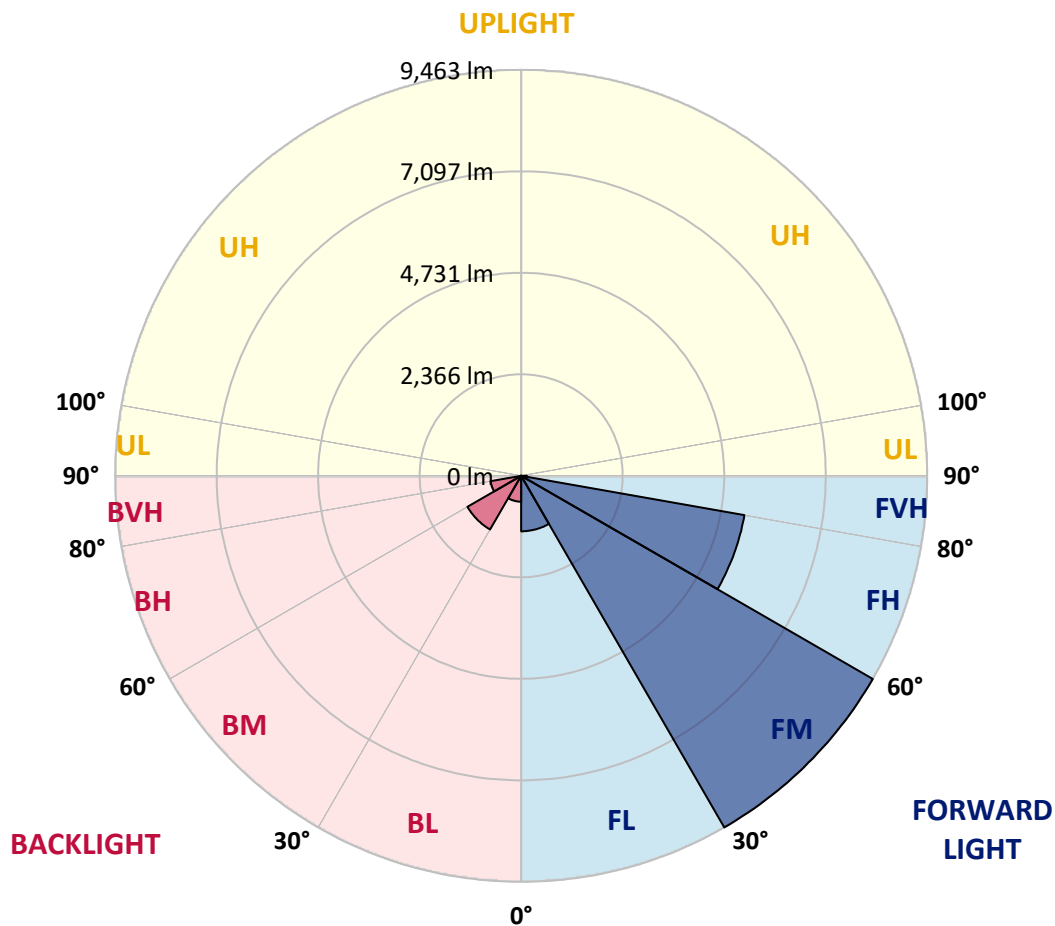
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1293.5	6.8			
FM	(30°-60°)	9462.7	49.9			
FH	(60°-80°)	5282.9	27.9			G3/7500
FVH	(80°-90°)	124.6	0.7			G2/225
BL	(0°-30°)	602.8	3.2	B2/1000		
BM	(30°-60°)	1445.4	7.6	B2/2500		
BH	(60°-80°)	727.1	3.8	B2/1000		G2/1000
BVH	(80°-90°)	10.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2393.4	2386.9	2396.0	2392.1	2389.5	2384.3	2381.7	2379.1	2373.9	2370.0	2354.3
5°	2399.9	2396.0	2405.1	2413.0	2420.8	2428.6	2432.5	2437.7	2432.5	2422.1	2406.5
7.5°	2345.2	2342.6	2362.1	2385.6	2420.8	2450.8	2483.4	2501.6	2502.9	2499.0	2482.1
10°	2341.3	2334.8	2354.3	2383.0	2428.6	2482.1	2539.4	2578.5	2583.7	2600.7	2582.4
12.5°	2402.5	2396.0	2423.4	2454.7	2501.6	2557.7	2628.1	2682.8	2690.6	2714.1	2701.1
15°	2505.5	2496.4	2527.7	2568.1	2628.1	2691.9	2766.2	2815.8	2822.3	2851.0	2827.5
17.5°	2625.5	2616.3	2652.8	2695.9	2761.0	2848.4	2934.4	2989.2	2997.0	3015.2	2972.2
20°	2779.3	2767.6	2796.2	2835.3	2904.4	3008.7	3111.7	3189.9	3188.6	3188.6	3118.2
22.5°	2957.9	2939.6	2964.4	2995.7	3060.9	3187.3	3324.2	3416.7	3416.7	3380.2	3264.2
25°	3149.5	3131.3	3158.6	3187.3	3244.7	3388.1	3548.4	3663.1	3668.3	3605.8	3420.7
27.5°	3389.4	3365.9	3386.8	3420.7	3454.5	3600.6	3790.9	3923.8	3926.5	3830.0	3569.3
30°	3850.8	3784.4	3719.2	3682.7	3698.3	3843.0	4046.4	4193.7	4206.7	4073.8	3730.9
32.5°	4695.6	4682.5	4453.1	4153.3	3996.8	4103.7	4331.9	4509.2	4517.0	4346.2	3940.8
35°	6008.3	5992.7	5623.7	5052.8	4543.1	4453.1	4678.6	4888.5	4883.3	4690.4	4213.2
37.5°	7575.2	7560.9	7074.7	6310.7	5485.6	4981.1	5125.8	5346.1	5378.7	5125.8	4565.2
40°	8914.0	8860.6	8552.9	7816.4	6737.0	5857.1	5761.9	5907.9	5941.8	5642.0	5012.4
42.5°	9928.2	9882.6	9726.2	9266.0	8251.8	7152.9	6511.5	6567.6	6605.4	6245.6	5526.0
45°	10453.6	10443.2	10505.7	10462.7	9795.3	8743.3	7583.1	7349.7	7364.1	6914.3	6108.7
47.5°	10527.9	10522.7	10808.2	11212.3	11122.3	10537.0	8958.4	8324.8	8274.0	7669.1	6742.2
50°	10089.9	10079.5	10627.0	11384.4	12008.8	12044.0	10520.1	9423.7	9311.6	8450.0	7403.2
52.5°	8691.1	8688.5	9588.0	10848.6	12320.4	13363.2	12063.5	10630.9	10443.2	9276.4	8101.9
55°	6687.5	6735.7	7766.9	9256.9	11752.0	13998.1	13449.3	11971.0	11682.9	10108.1	8745.9
57.5°	4737.3	4807.7	5827.1	7154.2	9989.5	13622.7	14386.6	13313.7	13003.4	10937.2	9399.0
60°	2544.6	2607.2	3627.9	5211.8	7431.8	12222.6	14880.6	14479.1	14185.8	11724.6	9988.2
62.5°	1516.1	1536.9	1959.3	3364.6	5026.7	9337.7	14670.8	15366.9	15125.7	12385.5	10500.5
65°	1088.5	1092.4	1304.9	2054.5	3051.7	5673.3	13199.0	15791.9	15717.5	12883.5	10879.9
67.5°	916.4	913.8	1002.5	1364.9	2079.2	2841.9	10116.0	15190.9	15506.4	13199.0	11095.0
70°	786.1	790.0	894.3	999.9	1563.0	1608.6	5029.3	13226.4	13899.0	13282.4	11081.9
72.5°	585.3	598.4	694.8	911.2	1179.8	1106.8	1736.4	9807.0	11023.3	12514.6	10507.0
75°	413.2	419.8	488.9	766.5	879.9	805.6	886.5	5069.7	6628.8	9594.5	8599.9
77.5°	318.1	329.8	370.2	535.8	866.9	565.8	542.3	1754.7	2695.9	5795.8	5896.2
80°	172.1	192.9	267.2	387.2	608.8	400.2	268.5	698.7	913.8	2710.2	2273.5
82.5°	88.6	99.1	186.4	279.0	346.8	349.4	133.0	290.7	376.7	836.9	311.6
85°	35.2	43.0	125.1	153.8	178.6	172.1	60.0	117.3	135.6	232.0	95.2
87.5°	7.8	13.0	45.6	35.2	33.9	36.5	14.3	27.4	26.1	27.4	16.9
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°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2353.0	2347.8	2333.5	2317.8	2299.6	2289.1	2282.6	2281.3	2272.2	2265.7	2272.2
5°	2392.1	2386.9	2359.5	2326.9	2291.7	2264.4	2238.3	2214.8	2180.9	2174.4	2171.8
7.5°	2470.3	2456.0	2411.7	2367.3	2300.9	2221.3	2124.9	2014.1	1915.0	1885.0	1870.7
10°	2566.8	2547.2	2491.2	2413.0	2265.7	2049.3	1815.9	1599.5	1427.4	1379.2	1361.0
12.5°	2676.3	2659.4	2585.0	2440.3	2118.4	1726.0	1368.8	1100.2	933.4	891.7	879.9
15°	2806.7	2781.9	2678.9	2398.6	1855.0	1311.4	939.9	780.9	720.9	713.1	705.2
17.5°	2944.8	2904.4	2762.3	2248.7	1500.4	932.1	726.1	680.5	654.4	646.6	642.7
20°	3071.3	3019.1	2811.9	2021.9	1121.1	726.1	650.5	620.5	597.1	587.9	582.7
22.5°	3197.7	3123.4	2811.9	1712.9	840.8	644.0	597.1	569.7	542.3	530.6	524.0
25°	3329.4	3230.3	2762.3	1368.8	676.6	590.5	546.2	516.2	492.8	478.4	473.2
27.5°	3457.2	3320.3	2648.9	1042.9	602.3	543.6	499.3	470.6	448.4	438.0	438.0
30°	3578.4	3408.9	2489.9	791.3	554.0	498.0	456.3	431.5	409.3	398.9	400.2
32.5°	3742.6	3521.0	2320.4	649.2	512.3	455.0	417.2	393.7	374.1	366.3	366.3
35°	3970.8	3686.6	2174.4	637.5	477.1	419.8	382.0	359.8	340.2	333.7	333.7
37.5°	4294.1	3953.8	2097.5	715.7	448.4	388.5	353.3	329.8	311.6	306.3	305.0
40°	4693.0	4316.2	2139.2	793.9	428.9	361.1	327.2	303.7	288.1	281.6	280.3
42.5°	5166.2	4763.4	2370.0	853.9	415.8	337.6	302.4	276.4	265.9	263.3	263.3
45°	5709.8	5254.8	2723.2	917.7	395.0	315.5	277.7	258.1	250.3	249.0	247.7
47.5°	6327.7	5794.5	3132.6	997.3	374.1	294.6	258.1	245.1	238.6	236.0	236.0
50°	6940.4	6338.1	3553.6	1041.6	357.2	275.1	242.5	232.0	226.8	225.5	225.5
52.5°	7581.8	6897.4	3893.9	999.9	342.8	259.4	229.4	221.6	216.4	215.1	215.1
55°	8193.1	7349.7	3952.5	848.6	314.2	243.8	215.1	211.2	204.7	204.7	203.4
57.5°	8719.8	7576.5	3538.0	623.1	285.5	220.3	200.8	196.8	191.6	190.3	189.0
60°	9203.4	7511.4	2731.0	419.8	254.2	196.8	182.5	179.9	174.7	168.2	166.9
62.5°	9475.9	7224.6	1868.1	273.8	222.9	172.1	161.6	160.3	148.6	135.6	133.0
65°	9578.9	6635.3	1165.4	199.5	186.4	147.3	139.5	136.9	119.9	105.6	104.3
67.5°	9488.9	5665.5	587.9	157.7	147.3	122.5	114.7	114.7	103.0	89.9	88.6
70°	9129.1	4247.1	247.7	126.4	113.4	93.9	93.9	99.1	87.3	73.0	71.7
72.5°	8348.3	2857.5	131.7	96.5	84.7	66.5	76.9	80.8	69.1	54.8	54.8
75°	6636.6	1742.9	91.3	71.7	53.4	46.9	58.7	61.3	46.9	36.5	35.2
77.5°	4539.1	1001.2	61.3	45.6	33.9	27.4	40.4	37.8	24.8	16.9	18.3
80°	1993.2	417.2	35.2	20.9	13.0	10.4	14.3	10.4	7.8	5.2	5.2
82.5°	233.3	97.8	13.0	7.8	5.2	2.6	1.3	0.0	0.0	0.0	0.0
85°	48.2	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.6	1.3	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)