

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: P648378

Luminaire Tested: **GALN-SA4B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17252.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

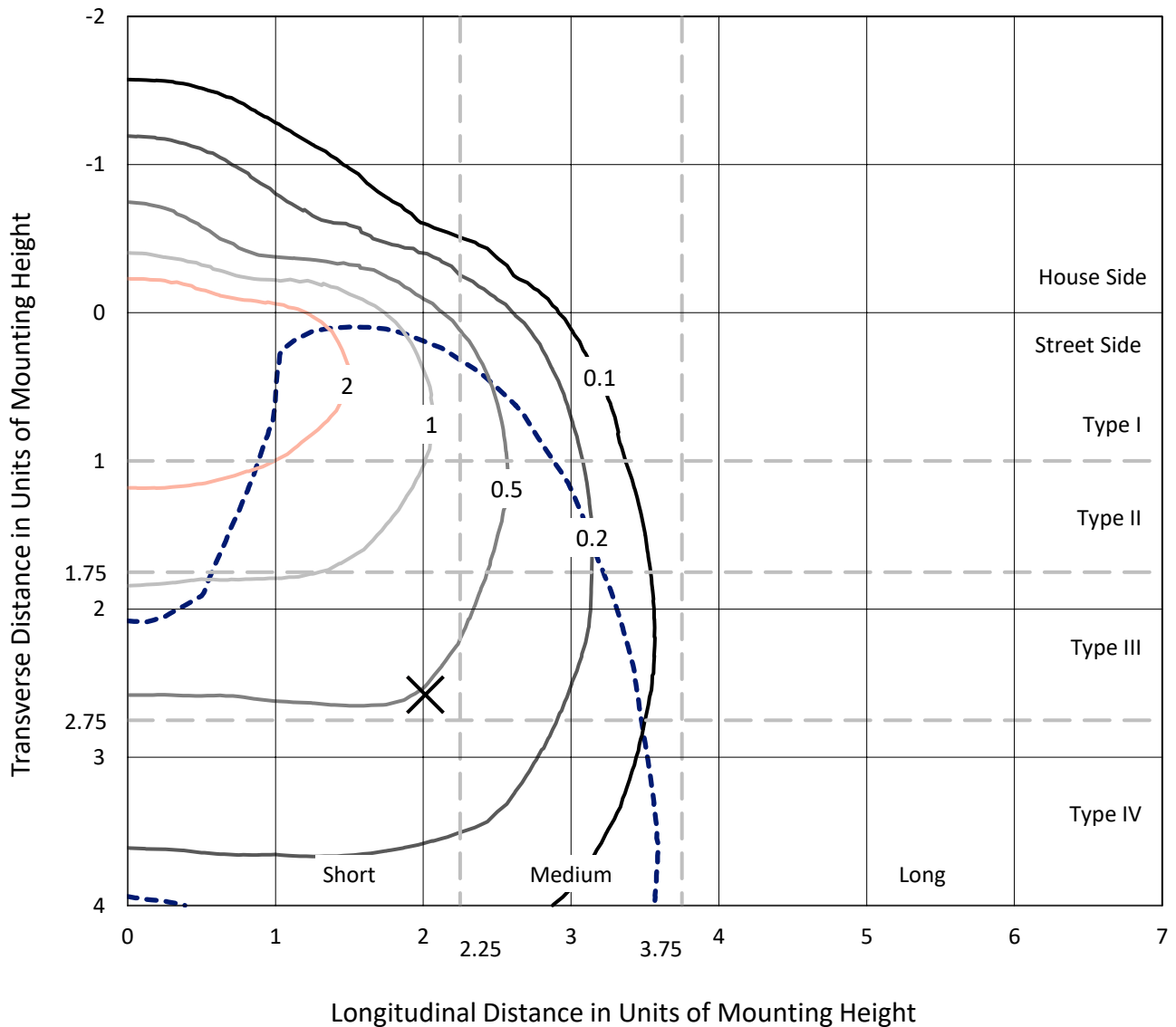
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

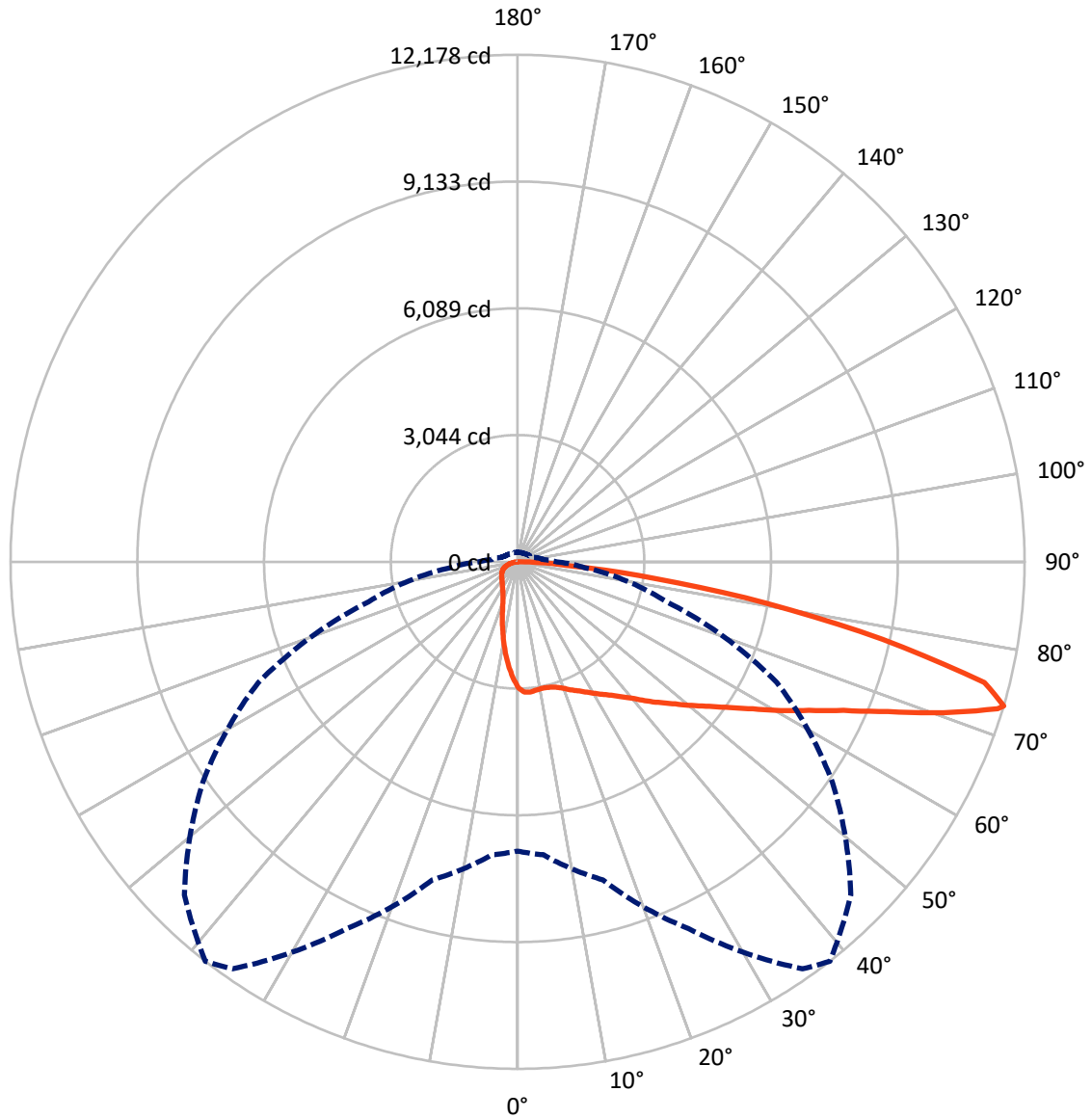
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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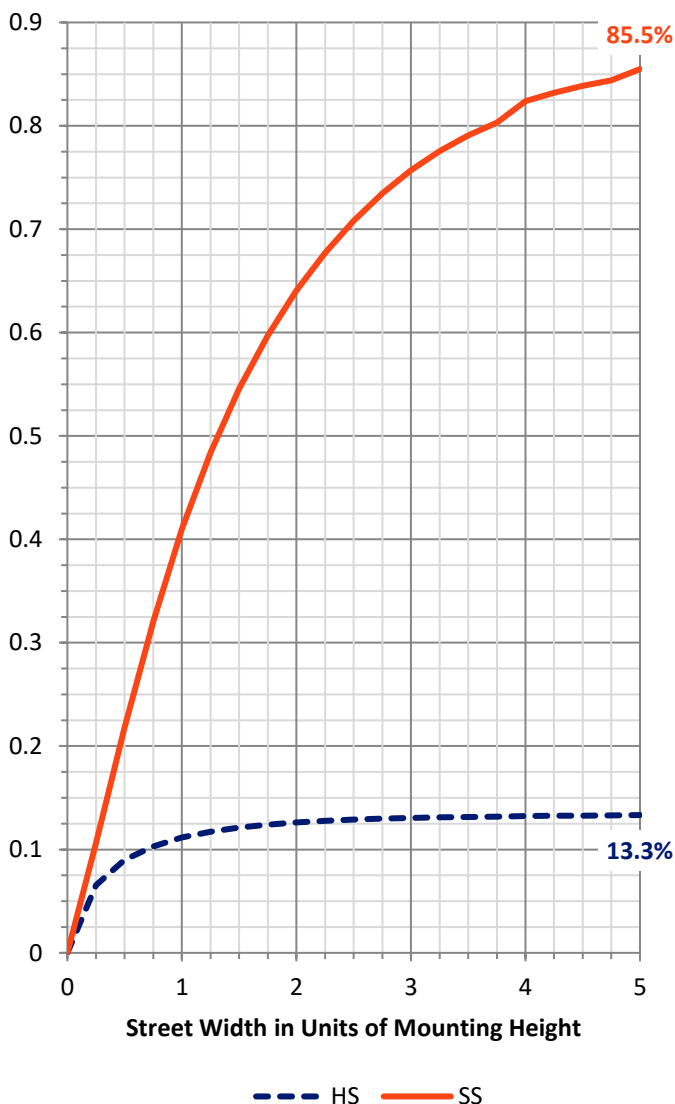
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2319.3	0.0	2319.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14933.4	0.0	14933.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	17252.6	0.0	17252.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	1.5
10°-20°	678.5	3.9
20°-30°	1056.5	6.1
30°-40°	1549.6	9.0
40°-50°	2298.7	13.3
50°-60°	3256.8	18.9
60°-70°	4131.3	23.9
70°-80°	3439.0	19.9
80°-90°	577.8	3.3
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°	17252.6	100.0
0°-180°	17252.6	100.0

Coefficient of Utilization



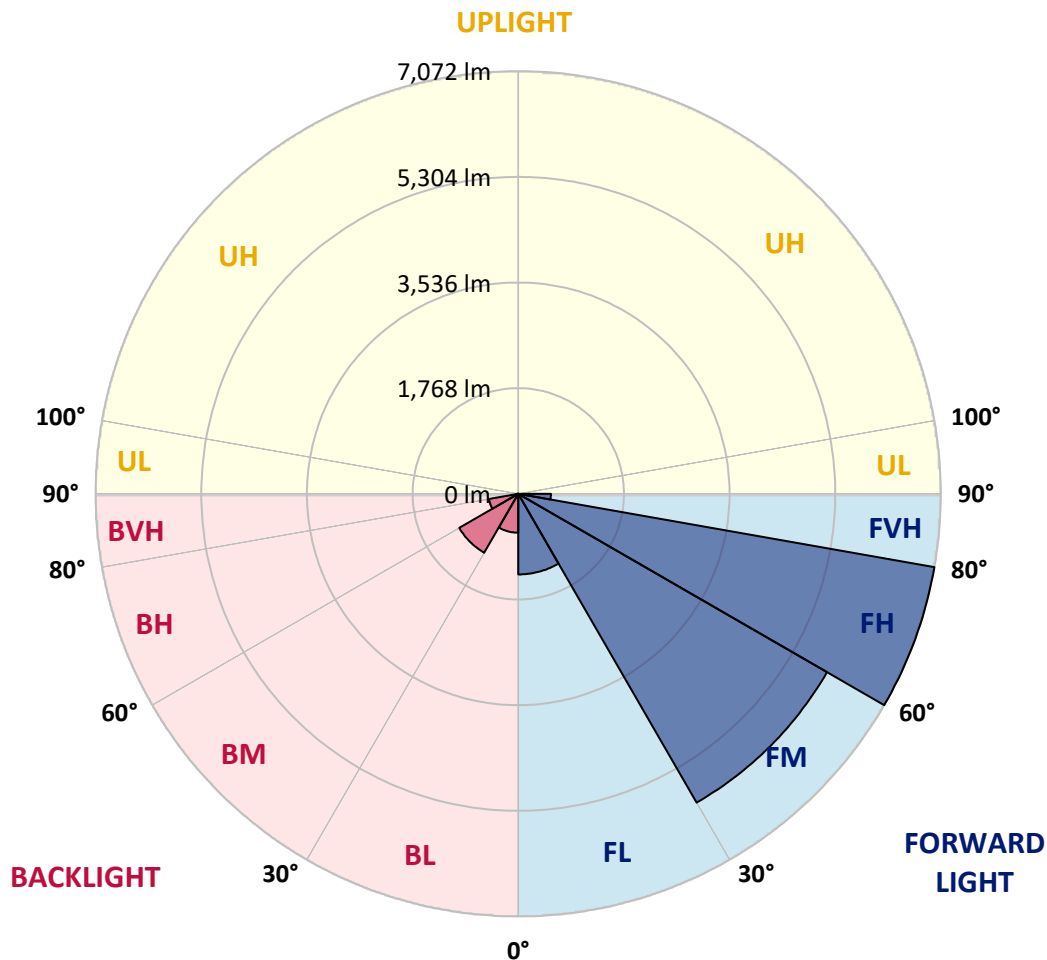
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.7	7.8			
FM (30°-60°)	5966.4	34.6			
FH (60°-80°)	7071.8	41.0			G3/7500
FVH (80°-90°)	546.5	3.2			G4/750
BL (0°-30°)	650.8	3.8	B2/1000		
BM (30°-60°)	1138.6	6.6	B2/2500		
BH (60°-80°)	498.5	2.9	B1/500		G1/500
BVH (80°-90°)	31.3	0.2			G1/100
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°	35°	38°	45°	55°	65°	75°	85°
0°	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0
2.5°	3152.7	3168.3	3160.6	3149.9	3143.0	3136.2	3126.4	3098.3	3075.8	3051.4	3013.5
5°	3176.2	3185.9	3179.1	3165.4	3149.9	3143.0	3124.6	3087.5	3051.4	3010.6	2954.0
7.5°	3162.5	3166.5	3158.6	3142.0	3128.4	3115.8	3094.3	3053.4	3009.5	2959.9	2885.8
10°	3113.8	3128.4	3128.4	3114.8	3101.1	3094.3	3072.9	3033.9	2994.0	2937.4	2849.8
12.5°	3073.8	3089.5	3102.1	3098.3	3097.2	3097.2	3080.7	3051.4	3004.7	2951.1	2846.8
15°	3046.6	3065.1	3092.4	3108.0	3117.7	3120.6	3113.8	3088.5	3040.7	2978.4	2858.6
17.5°	3040.7	3063.2	3112.8	3147.0	3172.2	3171.3	3169.3	3134.3	3081.7	3017.4	2873.1
20°	3067.0	3096.3	3165.4	3219.0	3256.0	3249.2	3238.5	3192.8	3131.4	3059.3	2886.8
22.5°	3145.9	3176.2	3252.2	3310.6	3346.7	3346.7	3314.5	3254.1	3188.8	3108.0	2905.3
25°	3259.0	3292.1	3372.9	3432.4	3449.0	3436.3	3404.2	3331.0	3256.0	3178.1	2944.3
27.5°	3397.4	3437.3	3512.3	3561.9	3557.1	3547.4	3514.3	3420.7	3345.7	3274.6	3010.6
30°	3569.8	3599.0	3677.0	3688.6	3671.1	3669.1	3622.4	3528.8	3458.7	3404.2	3105.1
32.5°	3732.5	3758.8	3821.1	3826.0	3794.8	3798.7	3754.9	3669.1	3629.2	3609.7	3263.9
35°	3904.9	3918.6	3972.2	3966.3	3945.9	3943.0	3925.4	3843.5	3856.2	3891.3	3488.9
37.5°	4049.1	4076.4	4106.6	4111.5	4110.5	4120.2	4132.0	4093.0	4166.0	4276.1	3784.1
40°	4181.6	4205.0	4249.8	4265.4	4303.4	4322.9	4362.9	4363.8	4532.4	4713.6	4147.6
42.5°	4271.3	4311.2	4395.0	4423.2	4515.8	4574.3	4633.7	4697.0	4941.6	5174.4	4576.2
45°	4349.2	4401.8	4541.2	4628.8	4754.5	4825.6	4951.3	5083.8	5435.5	5740.5	5011.7
47.5°	4467.1	4513.8	4673.6	4828.5	5018.6	5100.4	5288.4	5486.2	5946.0	6280.2	5428.7
50°	4630.7	4659.0	4821.7	5074.1	5316.6	5421.9	5670.3	5955.8	6491.6	6813.2	5795.1
52.5°	4840.3	4851.9	4981.5	5317.7	5637.2	5767.7	6097.1	6430.2	6969.0	7275.9	6085.4
55°	5087.7	5068.2	5169.5	5575.8	6003.5	6174.0	6527.7	6910.6	7505.8	7650.1	6296.8
57.5°	5332.2	5302.1	5382.9	5889.6	6455.6	6661.1	7073.3	7405.5	7985.2	7999.8	6444.9
60°	5591.4	5569.0	5665.5	6257.8	7010.0	7253.6	7634.5	7918.9	8449.0	8243.4	6468.3
62.5°	5857.4	5821.4	5958.7	6671.9	7634.5	7855.6	8224.9	8464.5	8904.0	8334.0	6243.2
65°	6115.5	6099.0	6311.4	7163.9	8345.7	8597.1	8955.6	9118.3	9268.4	8197.6	5685.0
67.5°	6390.3	6423.4	6762.5	7820.6	9273.2	9588.9	9975.7	9822.7	9372.6	7551.6	4787.7
70°	6809.3	6830.7	7354.9	8680.9	10468.6	10849.6	11036.7	10073.1	8869.9	6325.1	3599.0
72.5°	6989.5	7084.0	7883.9	9584.0	11826.8	12059.7	11393.3	9514.9	7388.9	4296.6	1891.1
73°	6949.6	7062.6	7908.2	9721.4	11933.0	12177.5	11317.2	9227.4	6868.7	3700.3	1621.2
75°	6451.7	6591.1	7591.6	9606.4	11726.4	11580.3	10095.5	7864.4	4641.5	1682.6	738.5
77.5°	5090.6	5130.6	6015.2	7757.3	9234.2	8963.4	7555.6	4915.3	1896.0	625.5	418.9
80°	2553.6	2700.7	3390.5	4443.7	6175.0	6086.3	4769.1	2324.6	790.1	367.3	277.7
82.5°	1228.6	1332.8	1651.4	2166.8	3411.9	3331.0	2361.7	1270.5	501.7	214.3	163.6
85°	791.1	869.1	1051.3	1033.7	1403.0	1339.6	1061.0	961.6	297.1	112.0	114.0
87.5°	522.2	571.9	685.9	548.5	510.5	461.8	468.6	541.7	58.5	42.8	15.6
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°	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0	3031.0
2.5°	2997.9	2985.2	2943.3	2902.4	2863.4	2826.4	2802.0	2769.9	2748.5	2754.3	2763.1
5°	2922.9	2894.6	2820.5	2748.5	2680.3	2599.4	2534.1	2481.5	2441.6	2426.9	2424.0
7.5°	2843.9	2796.2	2690.0	2566.3	2450.3	2349.9	2234.1	2176.6	2109.3	2085.9	2078.2
10°	2796.2	2731.9	2582.8	2410.4	2236.0	2069.4	1943.7	1841.4	1748.8	1731.3	1722.5
12.5°	2782.5	2697.8	2497.1	2274.9	2043.1	1838.5	1652.4	1517.9	1428.3	1407.8	1377.6
15°	2774.8	2669.6	2417.2	2138.5	1844.3	1594.9	1399.1	1242.2	1160.4	1105.8	1106.8
17.5°	2767.9	2637.4	2327.5	1989.4	1672.9	1385.4	1169.2	1027.8	952.8	923.6	920.7
20°	2758.2	2599.4	2224.3	1832.6	1477.1	1194.5	998.6	893.4	842.7	818.4	817.5
22.5°	2754.3	2562.4	2122.9	1672.9	1303.6	1047.3	885.7	811.6	779.4	762.9	762.9
25°	2764.1	2536.1	2016.8	1520.8	1149.7	921.7	807.7	757.0	738.5	729.8	726.8
27.5°	2794.2	2524.4	1911.5	1368.8	1008.3	835.9	755.0	720.0	706.3	699.5	700.5
30°	2851.8	2523.4	1808.3	1218.8	903.2	770.6	713.2	688.8	678.1	674.2	673.2
32.5°	2944.3	2544.8	1706.9	1095.1	814.5	716.1	674.2	656.7	651.8	648.9	647.9
35°	3101.1	2605.2	1606.6	982.0	746.3	667.4	637.2	628.4	621.6	624.5	625.5
37.5°	3312.6	2709.5	1511.1	893.4	694.7	631.3	606.0	598.2	594.3	597.3	600.2
40°	3596.1	2859.5	1431.2	822.3	657.6	601.1	578.7	571.9	568.0	572.8	573.9
42.5°	3908.8	3033.0	1365.0	766.8	627.4	575.8	554.4	546.5	543.6	546.5	547.6
45°	4230.3	3234.7	1330.9	726.8	602.1	557.3	534.9	526.1	519.3	517.3	520.3
47.5°	4547.0	3410.0	1329.9	702.4	581.6	540.7	516.4	506.6	497.8	493.0	492.0
50°	4805.2	3549.3	1353.3	691.7	564.1	522.2	497.8	488.1	476.5	466.7	468.6
52.5°	5000.0	3639.9	1364.0	686.8	554.4	502.8	478.3	469.6	455.9	443.3	443.3
55°	5125.7	3661.4	1337.7	682.0	546.5	482.2	455.9	448.2	434.6	421.9	421.9
57.5°	5168.6	3595.1	1243.2	670.3	538.8	464.7	433.5	426.7	416.0	403.3	401.4
60°	5069.2	3371.0	1077.6	635.2	523.2	446.2	409.2	406.3	402.4	391.7	390.7
62.5°	4686.3	2895.5	897.3	589.4	496.9	426.7	386.8	391.7	394.6	388.8	387.7
65°	4049.1	2351.0	766.8	526.1	461.8	399.5	362.5	375.1	382.9	382.9	380.9
67.5°	3284.3	1805.4	646.0	471.5	418.0	362.5	335.1	344.9	350.7	348.8	353.7
70°	2334.4	1222.7	526.1	409.2	362.5	320.6	300.0	300.0	296.2	294.3	294.3
72.5°	1132.1	698.6	426.7	341.9	308.8	273.7	257.2	250.4	242.6	241.6	236.8
73°	946.0	626.5	407.2	329.3	296.2	266.9	248.4	237.7	232.9	228.9	228.0
75°	575.8	475.4	340.1	277.7	252.4	230.0	213.4	203.7	198.7	195.8	194.9
77.5°	379.0	354.6	264.0	212.4	192.9	179.3	172.4	162.7	159.8	155.9	155.9
80°	282.5	270.8	189.0	150.0	138.4	126.7	124.7	122.8	114.9	110.1	108.1
82.5°	182.2	192.9	128.6	100.4	87.7	77.9	78.9	81.8	74.1	67.3	65.3
85°	129.6	139.3	77.9	45.8	37.0	32.2	36.0	32.2	33.1	26.3	21.5
87.5°	21.5	37.0	13.6	5.9	2.9	2.0	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)