

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: P652277

Luminaire Tested: **GALN-SA3B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14260 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

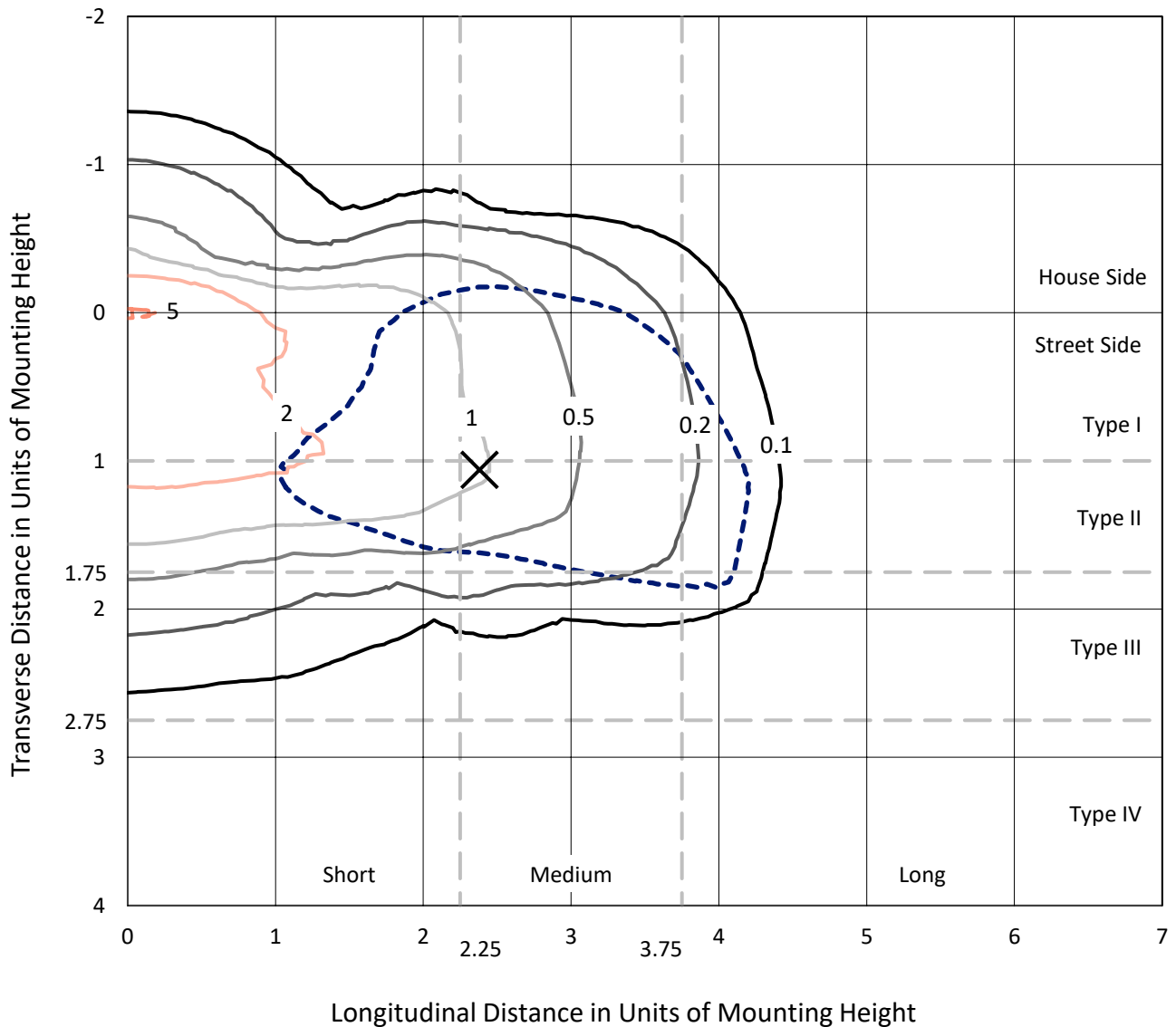
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

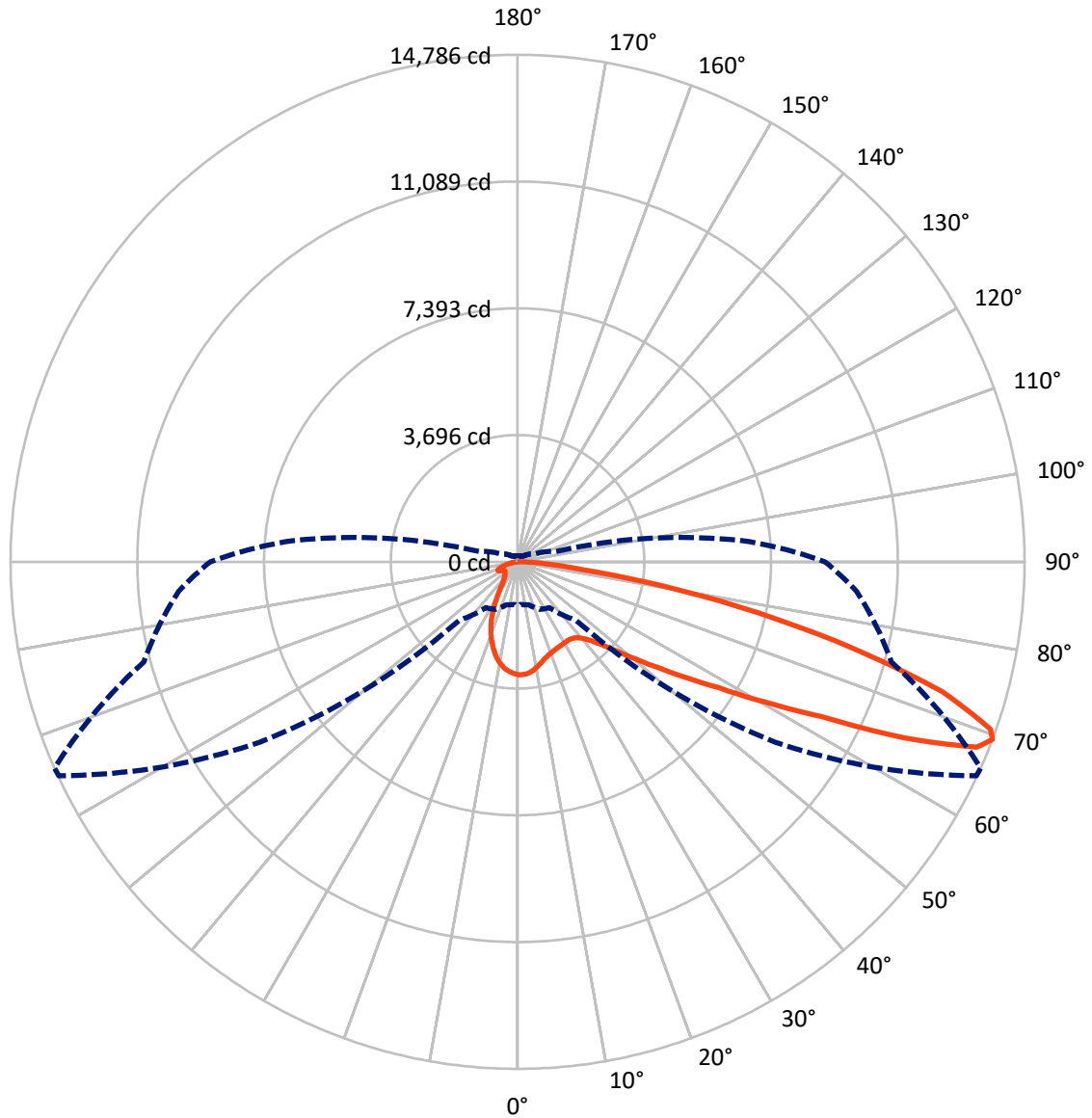
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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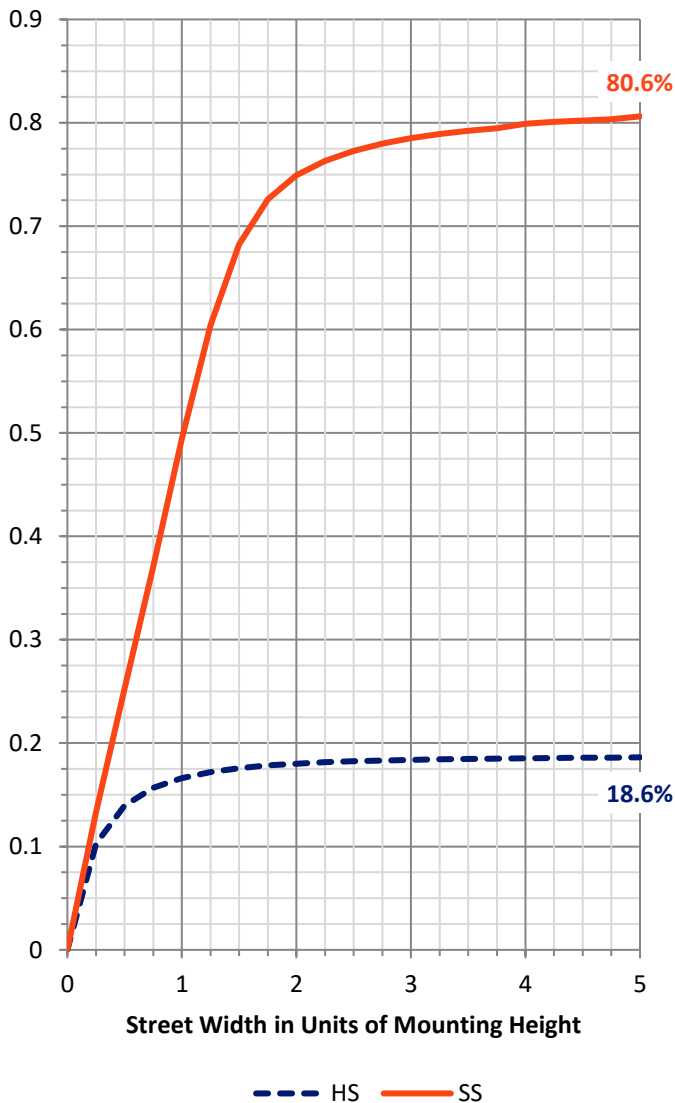
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2681.8	0.0	2681.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11578.2	0.0	11578.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	14260.0	0.0	14260.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	2.0
10°-20°	678.3	4.8
20°-30°	923.4	6.5
30°-40°	1240.8	8.7
40°-50°	1852.8	13.0
50°-60°	2947.1	20.7
60°-70°	3624.8	25.4
70°-80°	2358.5	16.5
80°-90°	348.3	2.4
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°	14260.0	100.0
0°-180°	14260.0	100.0

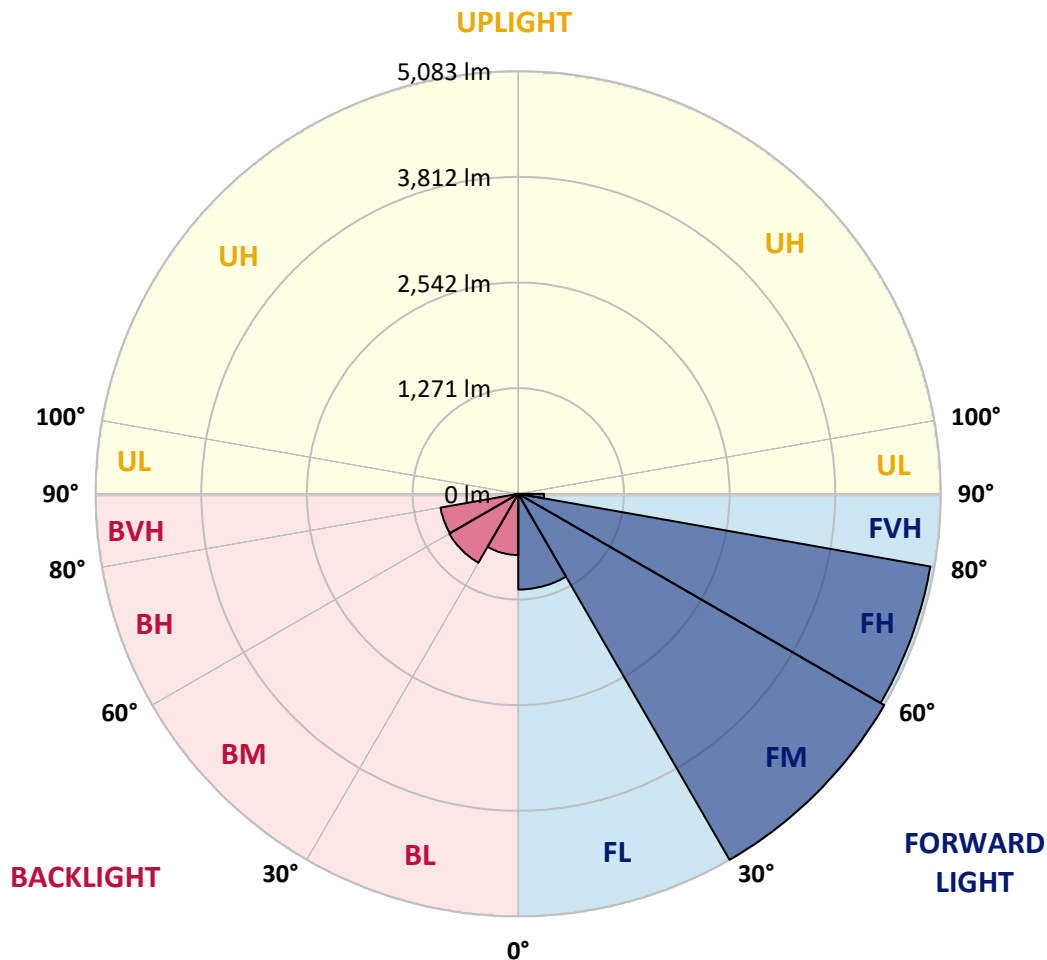


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.5	8.1			
FM (30°-60°)	5083.3	35.6			
FH (60°-80°)	5033.9	35.3			G3/7500
FVH (80°-90°)	309.6	2.2			G3/500
BL (0°-30°)	736.2	5.2	B2/1000		
BM (30°-60°)	957.5	6.7	B1/1000		
BH (60°-80°)	949.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	38.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0
2.5°	3177.7	3190.3	3204.5	3220.4	3250.4	3266.9	3278.8	3292.3	3293.9	3300.9	3295.4
5°	2943.2	2958.2	2979.5	3009.5	3054.5	3124.8	3197.5	3256.7	3263.8	3297.0	3306.5
7.5°	2747.4	2756.0	2773.4	2821.6	2885.6	2963.8	3069.6	3189.6	3207.0	3286.0	3313.5
10°	2587.8	2596.5	2617.0	2666.8	2730.0	2827.9	2944.0	3101.9	3116.2	3252.0	3315.1
12.5°	2468.6	2476.5	2498.6	2547.6	2620.2	2711.8	2839.7	3007.2	3027.7	3207.0	3300.2
15°	2377.8	2392.8	2411.0	2451.2	2527.8	2616.3	2740.2	2920.3	2936.9	3159.6	3289.9
17.5°	2339.1	2346.2	2358.8	2395.9	2452.0	2538.9	2663.6	2852.4	2872.1	3126.4	3287.5
20°	2340.7	2347.7	2350.2	2370.7	2411.0	2486.0	2609.1	2798.7	2822.4	3097.2	3291.4
22.5°	2394.3	2395.2	2386.4	2379.4	2395.2	2457.6	2570.4	2758.4	2786.1	3084.5	3294.6
25°	2477.2	2491.5	2478.8	2445.7	2416.4	2446.5	2555.5	2736.3	2762.3	3066.4	3290.7
27.5°	2611.6	2613.9	2603.7	2558.6	2482.8	2460.7	2549.2	2719.7	2741.8	3053.0	3270.9
30°	2791.5	2784.5	2775.0	2725.3	2606.0	2515.2	2562.5	2704.7	2727.6	3033.2	3247.2
32.5°	2974.0	2996.1	2987.4	2929.0	2774.2	2621.0	2606.0	2703.1	2722.1	3018.2	3221.2
35°	3167.5	3177.7	3218.8	3188.8	3030.0	2792.4	2687.3	2727.6	2742.6	3019.0	3203.0
37.5°	3319.1	3346.8	3443.1	3469.1	3319.8	3019.0	2819.2	2797.1	2803.4	3057.7	3210.1
40°	3502.3	3549.7	3673.7	3780.3	3682.3	3313.5	3043.5	2925.8	2933.7	3150.9	3256.7
42.5°	3734.5	3767.6	3934.3	4078.8	4063.0	3702.9	3315.1	3136.7	3140.6	3336.5	3387.0
45°	4006.1	4053.5	4240.7	4457.8	4495.0	4143.5	3707.6	3455.7	3453.3	3624.7	3630.3
47.5°	4353.6	4382.8	4568.4	4805.3	4955.3	4697.1	4183.8	3913.8	3888.4	4044.8	3999.8
50°	4673.4	4719.2	4859.8	5118.8	5492.3	5345.5	4810.0	4507.6	4448.4	4594.5	4518.6
52.5°	4807.7	4855.8	4974.3	5295.7	5952.7	6184.1	5605.3	5216.0	5117.2	5229.3	5201.8
55°	4574.7	4637.1	4747.6	5138.5	6154.9	7151.4	6677.6	6034.8	5963.0	5914.8	5922.7
57.5°	3948.5	4007.7	4157.0	4588.2	5913.2	7853.5	8208.9	7087.5	6933.5	6711.6	6749.5
60°	3005.6	3042.7	3120.1	3597.9	5197.0	8035.9	9947.8	8418.2	8320.3	7505.3	7532.1
62.5°	2134.5	2176.4	2230.1	2468.6	3804.8	7521.8	11309.3	10276.3	9926.5	8327.3	8301.3
65°	1733.4	1705.0	1769.7	1881.1	2232.4	5829.6	11615.6	12855.4	12373.7	9410.0	9048.3
67.5°	1425.4	1395.4	1459.4	1657.6	1697.8	3383.8	10511.7	14529.6	14433.2	10587.4	9807.2
69°	1261.9	1246.1	1302.2	1528.1	1629.9	2403.1	9157.3	14762.6	14785.5	11281.6	9924.1
70°	1137.2	1143.5	1198.0	1462.5	1599.2	1981.3	7826.7	14441.1	14635.4	11628.3	9797.7
72.5°	837.0	850.5	926.3	1211.4	1569.9	1681.2	4657.6	12613.8	12957.3	11648.8	8963.0
75°	585.2	578.9	646.0	912.1	1483.0	1666.3	2735.5	9755.1	10144.4	10068.6	7531.3
77.5°	383.0	393.3	447.0	644.4	1247.7	1653.7	1783.2	6920.9	7173.6	6733.7	4454.7
80°	270.0	269.3	299.3	439.8	925.5	1588.9	1460.1	4362.3	4298.4	2646.3	1321.1
82.5°	154.7	165.8	200.6	309.6	619.1	1398.6	1343.2	2086.4	1904.8	754.1	446.2
85°	86.1	90.0	119.3	187.1	361.7	1053.4	1172.7	949.2	895.5	315.1	191.9
87.5°	27.7	30.0	49.8	94.8	164.2	497.5	664.1	438.2	404.4	113.7	77.4
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°	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0	3293.0
2.5°	3297.7	3307.2	3282.0	3257.5	3235.4	3204.5	3177.0	3154.0	3138.3	3135.9	3128.0
5°	3308.8	3309.6	3261.5	3196.7	3133.5	3064.0	2992.2	2940.8	2892.6	2865.8	2852.4
7.5°	3316.7	3309.6	3222.7	3117.8	2996.1	2869.7	2743.4	2642.3	2564.1	2533.3	2545.2
10°	3313.5	3291.4	3164.3	2996.1	2819.2	2630.5	2448.8	2306.7	2176.4	2109.3	2110.8
12.5°	3296.2	3259.9	3077.5	2859.5	2599.7	2347.0	2069.0	1877.1	1726.2	1637.0	1609.4
15°	3281.2	3218.0	2975.5	2673.9	2350.9	1990.1	1651.2	1414.3	1288.0	1217.7	1216.9
17.5°	3265.4	3177.7	2864.2	2477.2	2065.1	1600.7	1245.4	1064.5	1005.2	1012.4	1000.5
20°	3248.8	3130.4	2748.1	2258.5	1716.8	1194.1	932.7	859.2	875.7	908.1	912.9
22.5°	3229.9	3079.8	2623.3	2017.6	1350.4	898.7	756.6	745.5	788.1	838.6	845.8
25°	3200.6	3016.7	2466.2	1765.8	1041.6	724.2	662.5	670.4	712.3	755.0	759.7
27.5°	3159.6	2938.5	2307.5	1451.5	782.6	621.5	605.7	615.9	636.5	662.5	668.8
30°	3104.3	2850.0	2125.0	1179.8	627.0	570.2	563.8	569.4	581.2	592.2	595.4
32.5°	3049.0	2764.7	1941.1	903.4	559.1	536.2	529.9	529.9	529.9	531.4	532.3
35°	2997.7	2684.1	1743.6	703.6	523.6	509.4	500.6	491.2	489.6	484.1	484.1
37.5°	2969.2	2610.7	1533.6	589.1	497.5	487.3	475.4	459.6	450.9	451.7	450.1
40°	2974.8	2562.5	1342.5	524.4	476.2	465.2	447.0	428.8	423.3	423.3	421.7
42.5°	3037.2	2546.8	1159.2	490.4	455.7	443.0	420.1	403.5	400.4	399.6	401.2
45°	3180.9	2585.5	995.0	468.3	438.2	419.3	396.4	381.4	378.3	378.3	377.4
47.5°	3461.2	2711.0	877.3	454.1	425.6	401.2	377.4	362.5	356.9	355.3	355.3
50°	3897.1	2983.4	789.7	441.4	409.8	384.6	360.1	342.7	334.0	333.3	332.4
52.5°	4502.9	3408.3	755.7	431.9	392.5	367.2	340.4	323.8	312.7	310.3	308.7
55°	5211.2	4001.4	802.3	424.9	374.3	347.5	319.8	302.4	292.2	287.5	286.7
57.5°	6031.7	4713.7	979.3	415.4	357.8	326.1	299.3	281.9	270.9	265.3	263.7
60°	6768.5	5445.7	1288.0	409.8	343.5	303.3	275.6	259.8	249.5	244.0	243.2
62.5°	7577.9	6143.8	1656.8	424.9	337.2	281.1	253.5	239.3	230.6	225.1	225.1
65°	8442.6	6842.7	1900.8	475.4	346.7	263.7	229.8	218.0	210.1	206.1	205.3
67.5°	9025.4	7084.3	1565.9	527.5	370.4	244.8	206.9	197.4	192.7	188.7	188.7
69°	8962.3	6778.7	1155.4	540.9	377.4	235.3	194.3	187.1	180.8	179.3	177.7
70°	8762.5	6430.5	968.2	532.3	372.0	226.6	186.4	177.7	172.2	170.6	169.8
72.5°	7804.6	5576.8	721.0	462.8	316.6	196.6	165.1	157.2	152.4	150.0	150.0
75°	6484.2	4558.1	563.0	368.0	247.9	165.8	141.4	135.1	131.1	129.5	128.8
77.5°	3634.2	2545.2	404.4	288.2	188.0	134.2	118.4	112.9	109.0	107.4	107.4
80°	1012.4	727.3	237.7	190.3	127.9	101.8	93.9	90.0	84.5	80.6	82.9
82.5°	381.4	315.1	135.8	114.5	81.3	68.0	65.5	62.4	60.0	54.5	54.5
85°	185.6	153.2	86.9	60.8	45.0	35.6	34.0	32.4	30.8	26.8	27.7
87.5°	64.0	68.0	37.9	22.1	13.5	8.7	7.1	4.0	4.0	4.0	4.0
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)