

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: P648569

Luminaire Tested: **GALN-SA7B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA 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: 22346 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

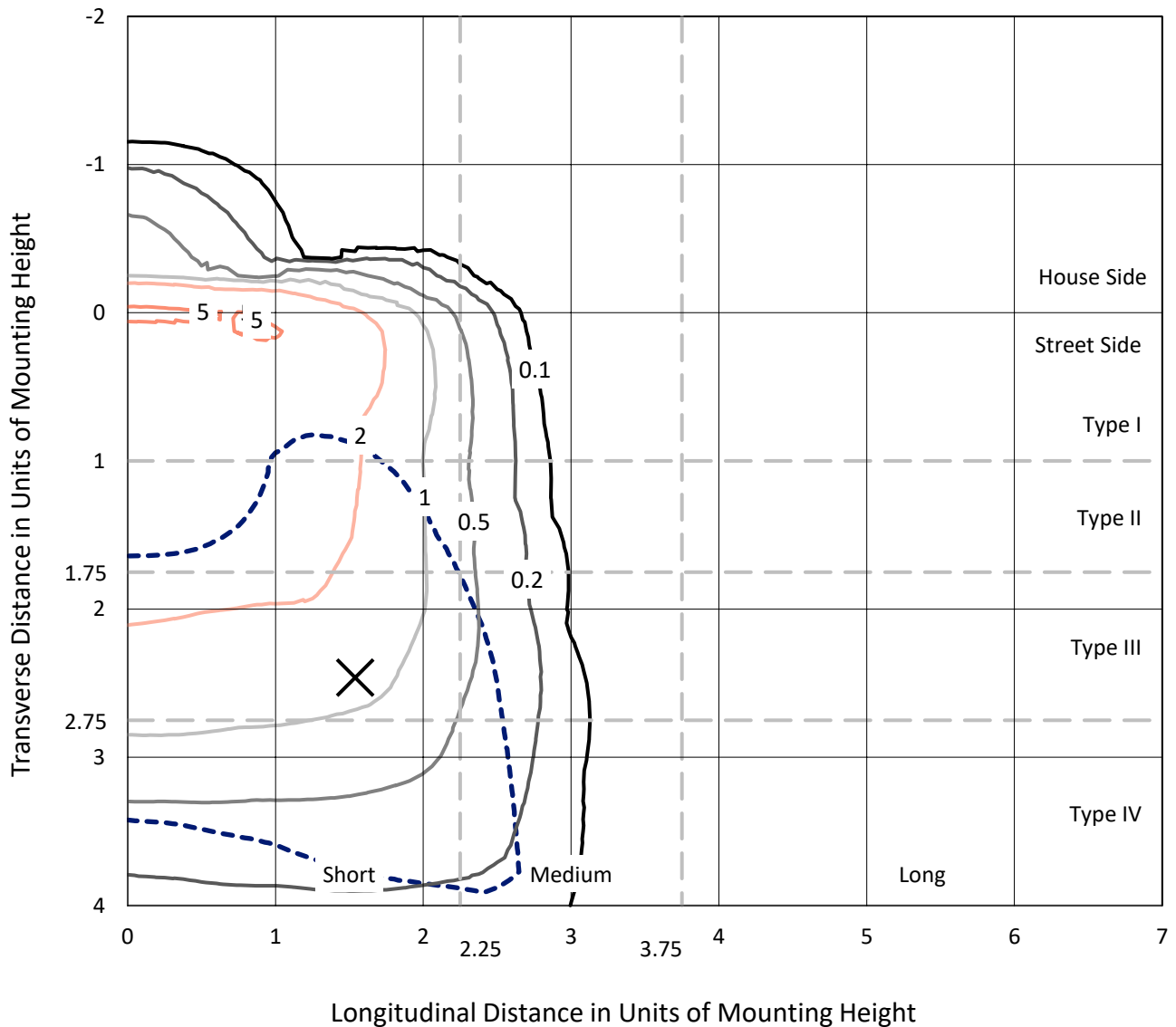
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

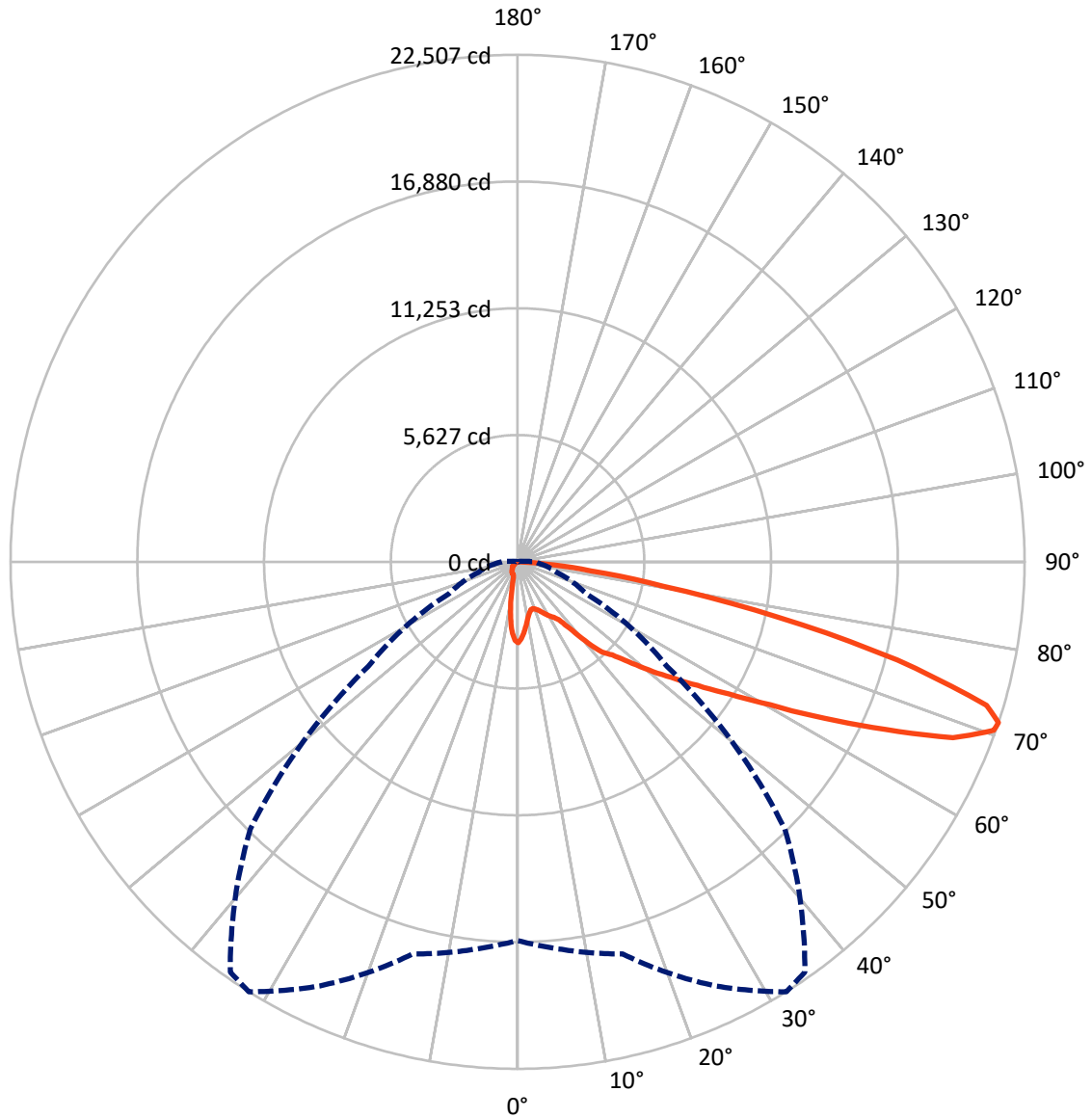
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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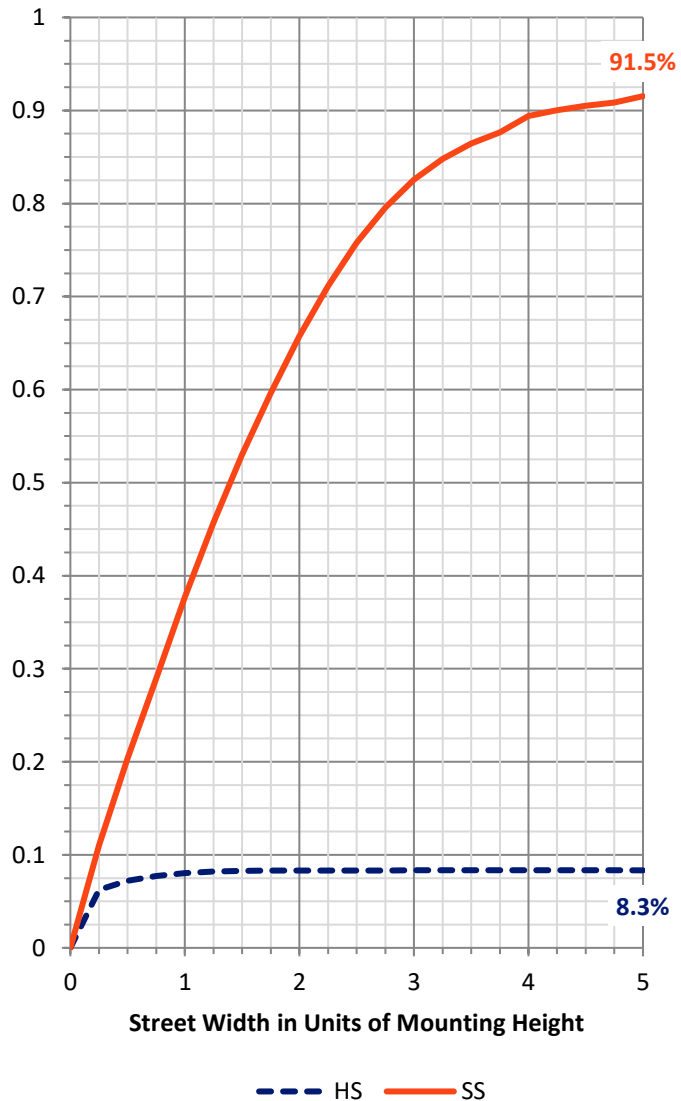
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.7	0.0	1871.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20474.3	0.0	20474.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	22346.0	0.0	22346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	1.3
10°-20°	634.2	2.8
20°-30°	986.6	4.4
30°-40°	1643.7	7.4
40°-50°	3057.5	13.7
50°-60°	4908.9	22.0
60°-70°	6602.7	29.5
70°-80°	3917.5	17.5
80°-90°	302.8	1.4
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°	22346.0	100.0
0°-180°	22346.0	100.0

Coefficient of Utilization

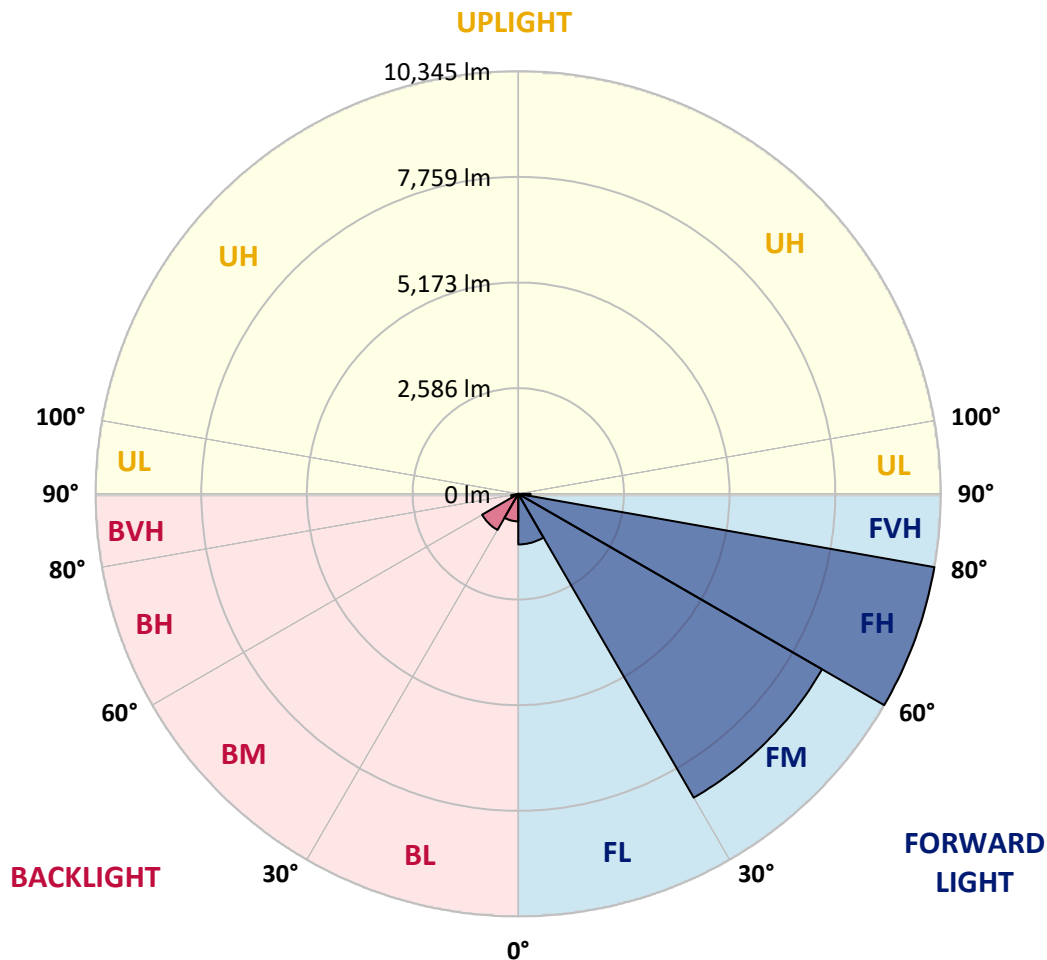


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.6	5.5			
FM (30°-60°)	8589.0	38.4			
FH (60°-80°)	10345.1	46.3			G4/12000
FVH (80°-90°)	301.6	1.3			G3/500
BL (0°-30°)	674.4	3.0	B2/1000		
BM (30°-60°)	1021.1	4.6	B2/2500		
BH (60°-80°)	175.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.2	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°	32°	35°	45°	55°	65°	75°	85°
0°	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6
2.5°	3332.8	3367.1	3362.0	3374.0	3403.2	3415.2	3447.8	3483.8	3533.5	3567.9	3590.1
5°	2984.6	3010.4	3013.8	3073.8	3103.0	3135.6	3231.7	3336.3	3453.0	3545.6	3607.3
7.5°	2612.4	2626.2	2653.6	2732.5	2806.3	2838.8	2984.6	3166.5	3350.0	3523.3	3634.8
10°	2305.4	2320.8	2370.5	2454.6	2523.2	2566.1	2768.5	2996.7	3254.0	3511.3	3674.2
12.5°	2130.4	2139.0	2157.9	2233.4	2320.8	2367.2	2585.0	2845.7	3176.8	3516.4	3741.1
15°	2118.4	2115.0	2092.7	2123.6	2202.5	2250.5	2463.2	2742.8	3108.1	3533.5	3820.0
17.5°	2181.9	2173.3	2120.1	2120.1	2185.4	2224.7	2411.7	2687.9	3073.8	3573.0	3931.5
20°	2279.6	2265.9	2178.5	2171.6	2235.1	2276.3	2442.6	2691.3	3080.7	3646.7	4080.8
22.5°	2403.2	2387.8	2255.7	2259.1	2327.7	2368.9	2531.8	2753.1	3123.6	3737.7	4240.3
25°	2564.4	2547.3	2391.1	2384.3	2456.3	2492.4	2663.9	2862.9	3183.6	3850.9	4449.6
27.5°	2778.8	2742.8	2555.8	2545.5	2622.7	2669.0	2823.4	3010.4	3290.0	4007.0	4730.9
30°	2955.5	2916.0	2737.7	2710.2	2792.6	2828.6	2988.1	3209.4	3499.2	4279.7	5120.2
32.5°	3187.0	3128.7	2919.5	2847.5	2934.9	2981.2	3226.5	3579.9	3809.7	4567.9	5583.3
35°	3708.5	3672.5	3416.9	3164.7	3159.6	3218.0	3578.2	3953.8	4128.8	5017.3	6214.6
37.5°	4454.6	4429.0	4158.0	3820.0	3722.2	3694.8	4005.3	4365.5	4638.3	5634.9	6948.7
40°	5321.0	5260.9	5012.1	4725.7	4598.8	4518.1	4509.6	4977.8	5303.7	6473.6	7713.8
42.5°	5941.9	5832.1	5530.2	5509.6	5482.2	5398.1	5154.6	5873.3	6163.1	7375.9	8532.0
45°	6593.7	6427.3	5977.9	5900.7	5890.4	5885.3	6128.9	6933.3	7099.7	8353.6	9372.5
47.5°	7099.7	6967.6	6598.8	6564.5	6607.4	6724.0	7417.0	8058.6	8024.3	9225.0	10077.5
50°	7773.9	7674.3	7264.4	7329.6	7550.9	7741.2	8869.9	9285.0	8784.2	9911.1	10590.4
52.5°	8569.7	8386.2	8005.4	8182.0	8521.7	8839.1	10412.0	10358.8	9317.6	10427.4	10972.9
55°	9259.3	9128.9	8998.5	9182.1	9689.9	10086.1	11804.8	11163.3	9705.3	10842.5	11141.0
57.5°	10425.7	10394.8	10261.1	10448.0	11063.8	11475.5	13051.8	11787.7	9954.0	11058.6	10943.8
60°	12151.3	12101.6	11852.8	12091.2	12894.1	13540.7	14201.1	12348.6	10010.6	10974.6	10375.9
62.5°	14226.9	14057.0	13844.3	14195.9	15297.2	15581.9	15283.5	12681.3	9799.6	10305.6	9007.2
65°	16165.2	15990.2	15995.4	16736.4	17935.4	18129.2	16546.0	12631.6	9182.1	8629.8	6643.4
67.5°	17648.9	17619.8	17829.0	19275.0	20842.8	20709.0	17674.7	11887.2	7351.8	5593.7	3530.2
70°	17724.4	17781.0	18381.3	20822.2	22414.1	22201.3	17578.6	9662.4	4583.4	2573.0	1391.2
71°	16811.9	17192.6	18022.9	20774.2	22506.7	22230.5	16769.0	8092.9	3362.0	1794.2	1003.5
72.5°	14326.3	14527.0	16321.2	19551.2	21774.2	21184.1	14715.7	5672.5	2152.7	1097.8	576.4
75°	7890.4	8384.4	10930.0	15338.3	17415.6	16897.6	9590.3	2694.8	1073.8	600.3	238.4
77.5°	3756.5	3660.5	5332.9	9122.0	11808.3	11780.8	4832.0	1197.3	626.1	406.5	120.0
80°	1073.8	1207.6	2041.2	4336.3	6556.0	6628.0	1855.9	578.1	433.9	317.3	61.8
82.5°	324.2	331.1	749.6	1917.7	3260.8	3073.8	696.4	295.0	312.2	252.1	36.0
85°	56.6	70.3	221.3	675.8	1243.6	943.4	175.0	140.6	205.9	166.4	20.6
87.5°	3.4	5.2	73.8	77.2	109.8	63.5	30.9	20.6	44.6	44.6	12.0
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°	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6	3593.6
2.5°	3605.6	3615.9	3609.0	3593.6	3567.9	3537.0	3495.8	3461.5	3432.4	3416.9	3435.8
5°	3627.9	3641.7	3607.3	3530.2	3413.5	3286.6	3142.5	3031.0	2943.5	2916.0	2905.7
7.5°	3662.2	3670.8	3578.2	3406.6	3159.6	2859.4	2597.0	2375.7	2204.1	2152.7	2077.2
10°	3706.8	3701.6	3526.7	3207.6	2773.7	2322.5	1916.0	1614.1	1386.0	1303.6	1296.8
12.5°	3775.4	3748.0	3461.5	2936.6	2314.0	1723.9	1221.3	955.4	811.3	763.3	753.0
15°	3861.2	3796.0	3358.6	2619.3	1771.9	1113.3	753.0	672.4	653.6	650.1	646.7
17.5°	3962.4	3859.5	3223.1	2229.9	1245.3	722.2	629.5	627.8	629.5	626.1	624.4
20°	4099.6	3926.4	3061.8	1768.5	823.3	608.9	600.3	600.3	602.0	600.3	600.3
22.5°	4245.4	4005.3	2862.9	1350.0	620.9	578.1	576.4	579.8	583.2	581.5	581.5
25°	4425.5	4108.2	2600.4	924.6	555.8	552.3	554.1	560.9	567.8	569.5	567.8
27.5°	4686.3	4235.1	2319.1	636.3	509.4	512.9	530.0	547.2	557.5	559.2	559.2
30°	4979.6	4375.8	1952.0	516.3	471.7	471.7	492.3	524.9	547.2	550.6	552.3
32.5°	5357.0	4538.7	1545.5	464.9	435.7	432.3	451.2	490.5	531.7	543.8	543.8
35°	5823.5	4730.9	1149.3	432.3	410.0	401.4	411.7	444.3	497.4	531.7	535.2
37.5°	6370.7	4912.7	840.5	403.1	385.9	374.0	380.8	406.5	449.4	500.9	514.6
40°	6876.7	5073.9	627.8	379.1	361.9	353.4	358.5	370.5	406.5	454.5	463.1
42.5°	7429.0	5199.1	499.2	353.4	337.9	334.5	334.5	339.7	363.6	391.1	392.8
45°	7979.6	5243.8	418.5	322.5	312.2	315.6	313.9	310.5	320.8	317.3	317.3
47.5°	8372.5	5190.6	346.5	293.3	293.3	298.5	289.9	277.9	272.7	252.1	253.8
50°	8641.7	4996.7	284.8	259.0	272.7	279.6	262.5	243.6	224.7	202.4	197.2
52.5°	8753.2	4652.0	233.3	214.4	241.9	250.4	229.9	207.6	178.4	159.5	154.4
55°	8681.2	4226.6	193.8	175.0	204.1	214.4	193.8	168.1	135.5	114.9	111.5
57.5°	8363.9	3718.8	164.7	138.9	162.9	169.8	156.1	128.6	96.1	75.5	75.5
60°	7815.0	3193.9	133.8	109.8	121.8	132.1	118.4	92.6	65.1	46.3	42.9
62.5°	6701.8	2593.5	108.1	85.7	85.7	94.4	82.4	66.9	41.2	24.0	22.3
65°	4838.9	1778.8	85.7	63.5	61.8	61.8	51.4	44.6	24.0	10.3	6.9
67.5°	2629.5	1003.5	68.6	48.0	42.9	41.2	32.6	25.8	10.3	1.7	0.0
70°	1034.3	385.9	53.2	32.6	27.5	25.8	17.1	12.0	6.9	0.0	0.0
71°	701.6	265.9	46.3	27.5	22.3	18.9	13.7	10.3	5.2	0.0	0.0
72.5°	401.4	164.7	36.0	20.6	17.1	13.7	10.3	6.9	5.2	0.0	0.0
75°	175.0	84.0	22.3	15.4	12.0	8.6	6.9	5.2	1.7	0.0	0.0
77.5°	89.2	46.3	15.4	12.0	6.9	5.2	3.4	1.7	0.0	0.0	0.0
80°	49.7	24.0	10.3	6.9	5.2	3.4	1.7	1.7	0.0	0.0	0.0
82.5°	27.5	13.7	5.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	3.4	0.0	0.0	0.0	0.0	1.7	1.7	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)