

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: P319487

Luminaire Tested: **GLEON-SA3C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 15551 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

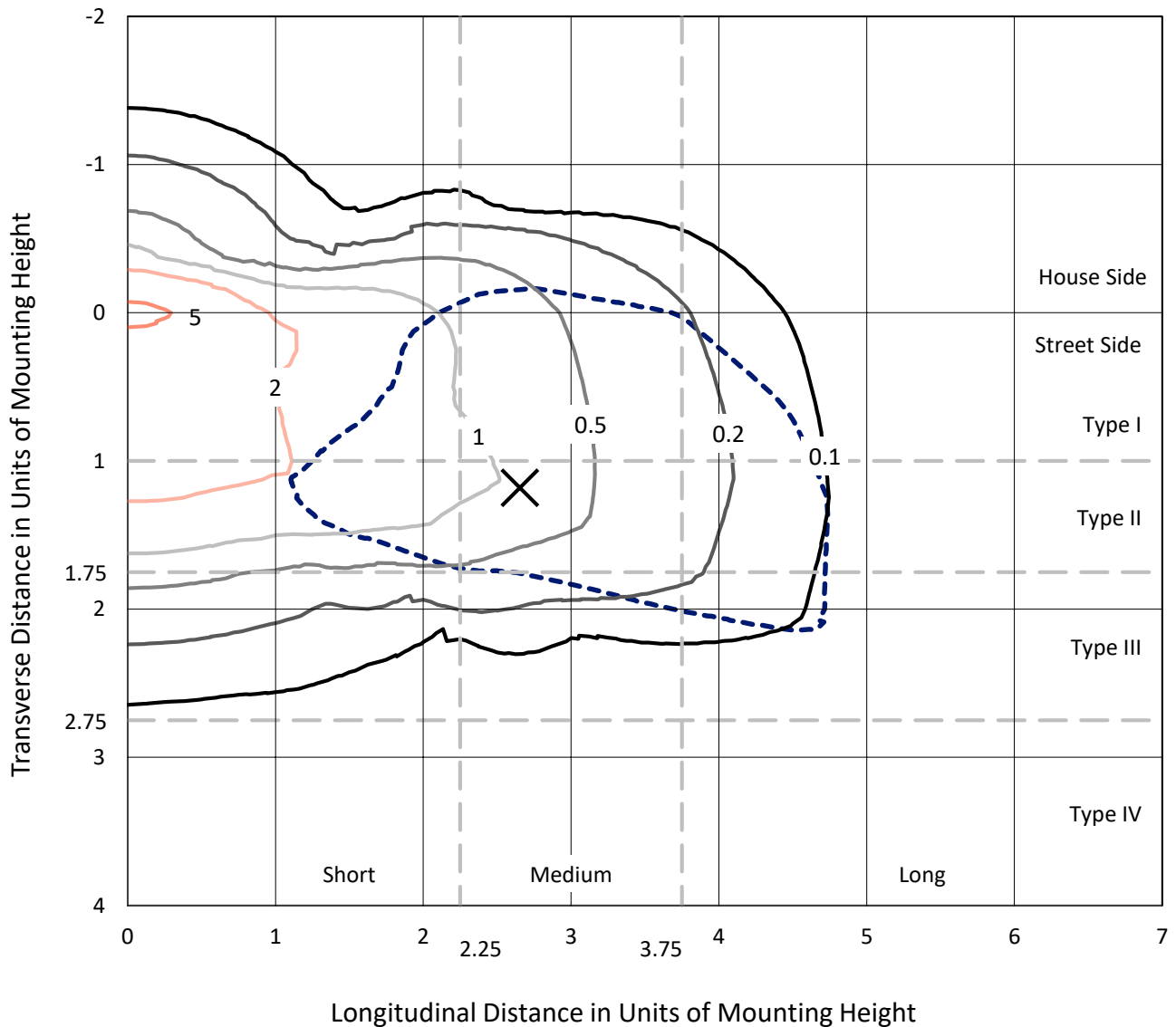
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

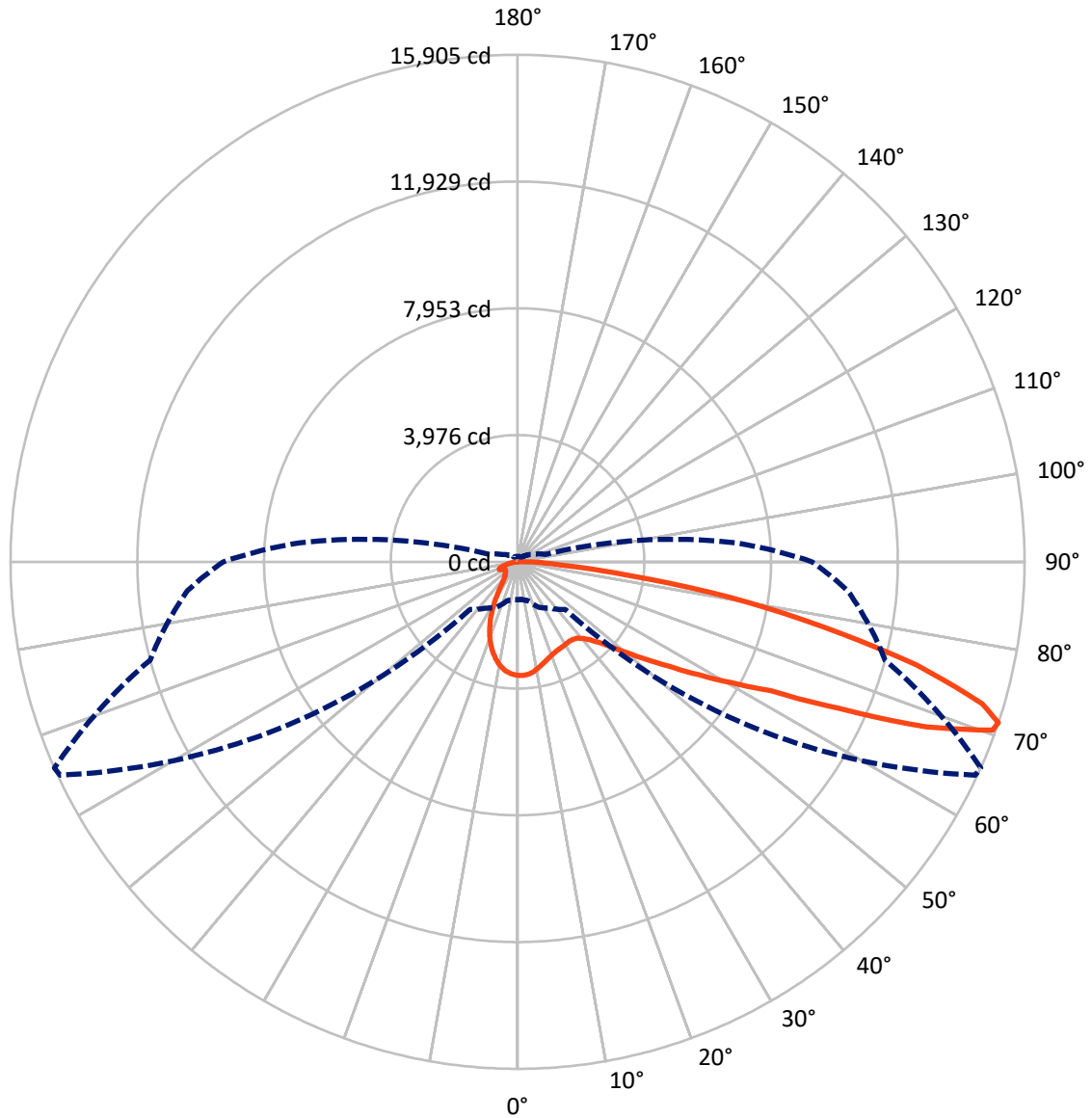
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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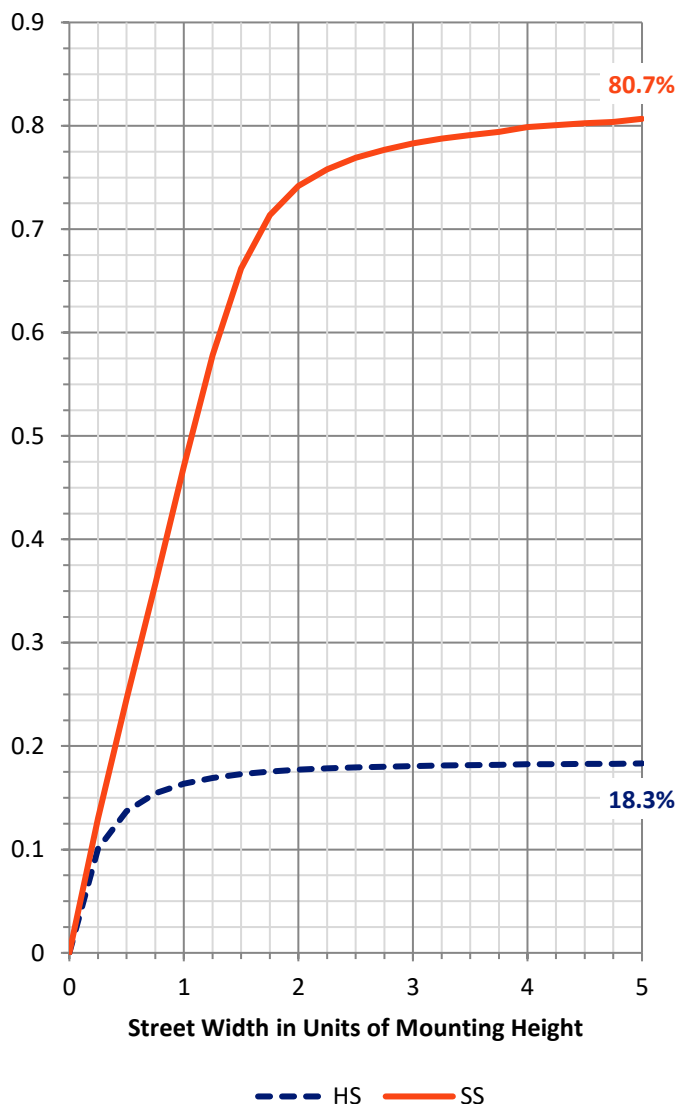
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2882.0	0.0	2882.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12669.0	0.0	12669.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	15551.0	0.0	15551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	2.0
10°-20°	752.1	4.8
20°-30°	1010.3	6.5
30°-40°	1329.0	8.5
40°-50°	1933.3	12.4
50°-60°	3020.0	19.4
60°-70°	3783.1	24.3
70°-80°	2885.7	18.6
80°-90°	524.0	3.4
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°	15551.0	100.0
0°-180°	15551.0	100.0

Coefficient of Utilization

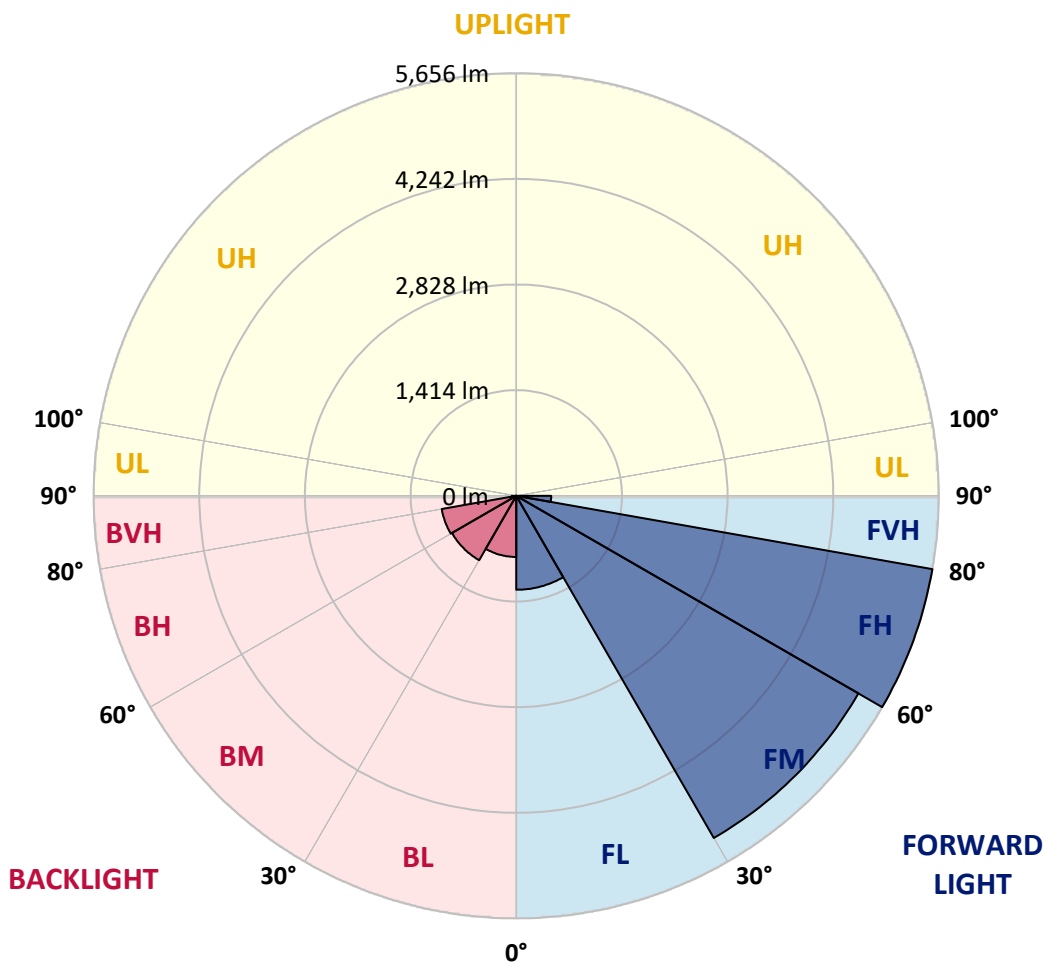


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.5	8.1			
FM (30°-60°)	5288.1	34.0			
FH (60°-80°)	5656.1	36.4			G3/7500
FVH (80°-90°)	467.3	3.0			G3/500
BL (0°-30°)	818.4	5.3	B2/1000		
BM (30°-60°)	994.2	6.4	B1/1000		
BH (60°-80°)	1012.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	56.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4
2.5°	3496.4	3491.0	3507.1	3523.8	3530.2	3541.0	3557.1	3566.2	3565.7	3567.3	3561.9
5°	3264.4	3257.5	3289.7	3316.0	3366.5	3423.4	3492.6	3542.0	3543.1	3571.0	3578.5
7.5°	3044.8	3040.0	3077.1	3119.5	3178.0	3265.0	3377.2	3483.5	3489.9	3565.7	3592.0
10°	2868.7	2867.7	2903.6	2949.8	3018.0	3115.2	3244.0	3399.7	3409.4	3539.9	3594.1
12.5°	2731.3	2733.4	2764.6	2817.2	2889.1	2990.6	3130.2	3305.8	3321.4	3499.1	3581.8
15°	2629.8	2638.4	2663.6	2716.8	2787.7	2890.8	3034.1	3218.8	3242.4	3453.4	3574.8
17.5°	2571.8	2581.5	2599.2	2643.2	2709.8	2809.1	2945.0	3147.4	3168.9	3418.5	3575.3
20°	2554.6	2562.7	2572.9	2599.7	2656.1	2746.3	2874.6	3083.0	3106.1	3390.6	3580.7
22.5°	2588.5	2594.4	2595.4	2593.3	2627.7	2701.2	2823.6	3035.7	3060.4	3372.4	3584.4
25°	2661.0	2669.0	2663.1	2643.2	2632.0	2677.1	2797.3	3004.6	3029.3	3358.9	3576.9
27.5°	2769.9	2771.0	2766.2	2740.4	2687.3	2679.7	2789.3	2986.3	3009.9	3343.4	3561.4
30°	2918.1	2925.1	2916.5	2881.6	2794.6	2722.7	2798.9	2968.6	2990.1	3323.5	3536.1
32.5°	3091.6	3108.7	3108.2	3071.7	2947.1	2818.8	2838.7	2957.9	2974.5	3302.6	3505.5
35°	3271.4	3295.0	3339.1	3323.5	3169.4	2970.8	2914.9	2975.0	2986.3	3299.9	3484.0
37.5°	3458.3	3481.9	3572.6	3614.5	3434.1	3188.2	3035.2	3035.7	3041.1	3332.6	3482.4
40°	3653.7	3678.9	3815.3	3924.3	3777.2	3463.6	3229.0	3162.4	3156.5	3413.2	3514.1
42.5°	3927.5	3950.1	4113.8	4252.9	4157.9	3816.4	3496.9	3357.9	3345.5	3571.0	3615.6
45°	4273.8	4293.2	4467.1	4615.9	4567.0	4219.1	3833.6	3626.9	3624.7	3834.1	3821.2
47.5°	4685.7	4700.7	4856.9	5000.8	5018.5	4682.4	4256.7	4041.9	4007.0	4194.9	4139.6
50°	5114.7	5131.3	5237.6	5392.2	5523.8	5302.6	4801.1	4550.4	4503.6	4671.2	4590.6
52.5°	5398.7	5420.7	5513.0	5709.0	6091.8	5982.3	5444.9	5166.7	5095.9	5248.3	5186.6
55°	5272.0	5321.4	5462.6	5776.7	6546.1	7020.7	6239.0	5885.7	5805.7	5932.4	5895.9
57.5°	4695.9	4763.5	4956.3	5441.1	6610.0	7935.6	7439.5	6732.4	6676.0	6639.5	6656.1
60°	3643.0	3707.9	3946.9	4578.8	6164.9	8603.5	9246.2	7776.1	7694.5	7349.3	7364.3
62.5°	2578.3	2545.5	2709.3	3171.6	5009.4	8681.9	11302.1	9172.1	8903.7	8098.8	8032.8
65°	1966.2	1958.7	2032.2	2179.3	3034.1	7743.9	12526.8	11518.4	11099.1	8980.4	8824.7
67.5°	1615.6	1602.2	1674.6	1888.9	1953.8	4996.0	12553.6	14240.6	13828.8	10077.9	9740.7
70°	1328.3	1313.3	1380.9	1657.5	1805.6	2533.7	10565.4	15834.7	15812.7	11467.4	10432.3
71°	1190.9	1180.1	1261.2	1568.3	1774.0	2111.7	9122.2	15839.0	15905.0	11937.8	10391.5
72.5°	969.7	973.4	1059.3	1396.0	1750.3	1864.7	6704.5	15100.7	15240.3	12386.1	10020.5
75°	644.3	647.5	760.3	1073.8	1697.2	1824.4	3684.8	12671.2	12927.8	12117.6	9143.7
77.5°	432.8	431.7	508.5	736.6	1478.7	1824.4	2160.5	9477.1	9759.0	9641.9	7049.2
80°	298.0	295.8	350.1	508.5	1119.5	1846.5	1670.3	6641.6	6727.0	5207.0	2865.0
82.5°	182.6	184.2	228.7	359.2	761.9	1661.8	1576.9	3621.5	3528.6	1460.4	715.7
85°	104.7	104.2	146.0	243.2	489.1	1402.4	1537.7	1558.7	1429.8	439.7	258.8
87.5°	37.6	40.3	78.4	134.8	280.3	976.6	1304.7	810.7	730.7	198.7	117.0
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°	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4
2.5°	3558.1	3561.4	3557.6	3536.1	3517.9	3488.3	3471.7	3448.6	3441.6	3438.4	3447.0
5°	3571.6	3572.6	3541.0	3484.6	3421.2	3346.6	3292.9	3226.9	3195.7	3182.3	3190.9
7.5°	3583.9	3579.1	3509.8	3401.9	3284.8	3154.9	3039.5	2933.7	2872.0	2846.7	2848.9
10°	3585.5	3565.1	3454.0	3287.0	3105.5	2914.9	2737.7	2574.5	2471.4	2404.3	2424.7
12.5°	3568.9	3534.5	3371.8	3138.3	2886.5	2626.6	2387.1	2142.3	1995.2	1927.0	1929.1
15°	3556.0	3493.7	3270.9	2963.2	2625.0	2280.8	1953.8	1666.0	1509.3	1439.5	1406.7
17.5°	3545.3	3449.7	3153.8	2766.2	2316.3	1879.7	1486.7	1230.1	1144.2	1123.8	1115.2
20°	3530.2	3403.0	3023.4	2538.0	1964.6	1430.9	1085.6	958.9	959.5	983.1	986.3
22.5°	3509.3	3349.8	2884.3	2281.9	1587.1	1042.2	851.0	814.5	851.5	896.6	904.7
25°	3478.1	3287.0	2729.7	1998.9	1210.2	801.1	727.0	725.4	770.5	817.7	824.7
27.5°	3434.1	3204.8	2557.9	1695.0	891.8	680.8	651.3	662.6	695.8	730.2	732.9
30°	3375.0	3109.3	2368.3	1374.5	699.1	606.2	603.0	613.2	633.6	657.7	659.9
32.5°	3310.1	3012.1	2165.9	1064.2	598.7	565.9	569.1	574.0	583.6	593.3	595.4
35°	3251.0	2912.8	1958.7	808.6	550.9	539.6	537.5	536.4	537.5	534.2	534.8
37.5°	3212.9	2830.6	1742.8	643.8	523.5	516.5	510.1	502.0	492.9	487.5	488.6
40°	3198.9	2769.4	1524.3	556.2	500.9	496.1	483.8	466.6	455.8	452.6	452.6
42.5°	3236.5	2737.7	1313.3	512.2	482.1	474.1	453.7	433.8	425.8	425.2	424.7
45°	3351.4	2750.6	1112.5	488.1	465.0	449.4	422.6	405.9	400.5	401.6	401.1
47.5°	3557.6	2831.7	940.7	471.9	447.8	427.4	397.3	383.9	377.5	377.5	378.0
50°	3908.2	3021.2	803.8	458.5	433.3	407.0	379.1	362.4	353.8	353.3	353.3
52.5°	4418.8	3360.6	718.4	447.3	417.2	388.7	360.8	339.9	329.7	327.5	326.4
55°	5058.8	3847.0	694.8	439.7	395.7	368.9	338.8	317.9	306.6	301.7	301.2
57.5°	5774.5	4438.7	741.5	430.6	373.7	345.2	314.6	294.8	283.0	277.0	276.5
60°	6498.8	5084.6	932.1	417.7	355.4	319.5	289.9	271.7	259.9	253.4	252.4
62.5°	7224.2	5765.4	1321.3	416.6	342.6	294.8	264.7	249.1	237.9	230.9	229.3
65°	8042.5	6510.6	1763.8	445.1	338.3	272.2	238.9	226.6	216.9	210.5	209.9
67.5°	8982.1	7352.0	1721.4	503.6	352.8	251.8	214.8	205.1	198.1	192.8	192.2
70°	9422.9	7220.4	1070.1	545.0	373.2	231.9	191.7	184.7	179.3	175.6	174.0
71°	9238.2	6855.9	897.2	540.1	371.0	223.4	182.6	177.2	171.8	168.6	167.0
72.5°	8734.5	6252.4	748.5	502.6	346.8	207.8	170.7	165.4	160.5	156.8	155.7
75°	7837.9	5583.9	599.2	401.6	276.5	175.6	149.8	143.9	140.1	138.0	135.8
77.5°	5761.6	3985.0	463.4	317.3	203.5	143.4	127.8	123.5	119.7	116.5	114.9
80°	2207.3	1543.6	311.9	236.8	149.3	113.3	103.1	100.9	97.2	95.0	95.0
82.5°	594.4	461.2	166.4	143.4	99.9	82.7	78.9	77.9	74.6	70.3	70.9
85°	240.5	203.5	93.4	78.9	61.2	48.9	53.2	53.7	49.9	44.6	45.1
87.5°	105.8	86.4	52.1	34.9	26.8	18.8	24.2	24.2	22.0	18.3	16.6
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)