

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: P646832

Luminaire Tested: **GALN-SA3C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646832
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-SA3C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 16403.1 lumens
Efficiency: N/A
Efficacy: 102.5 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): 160
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

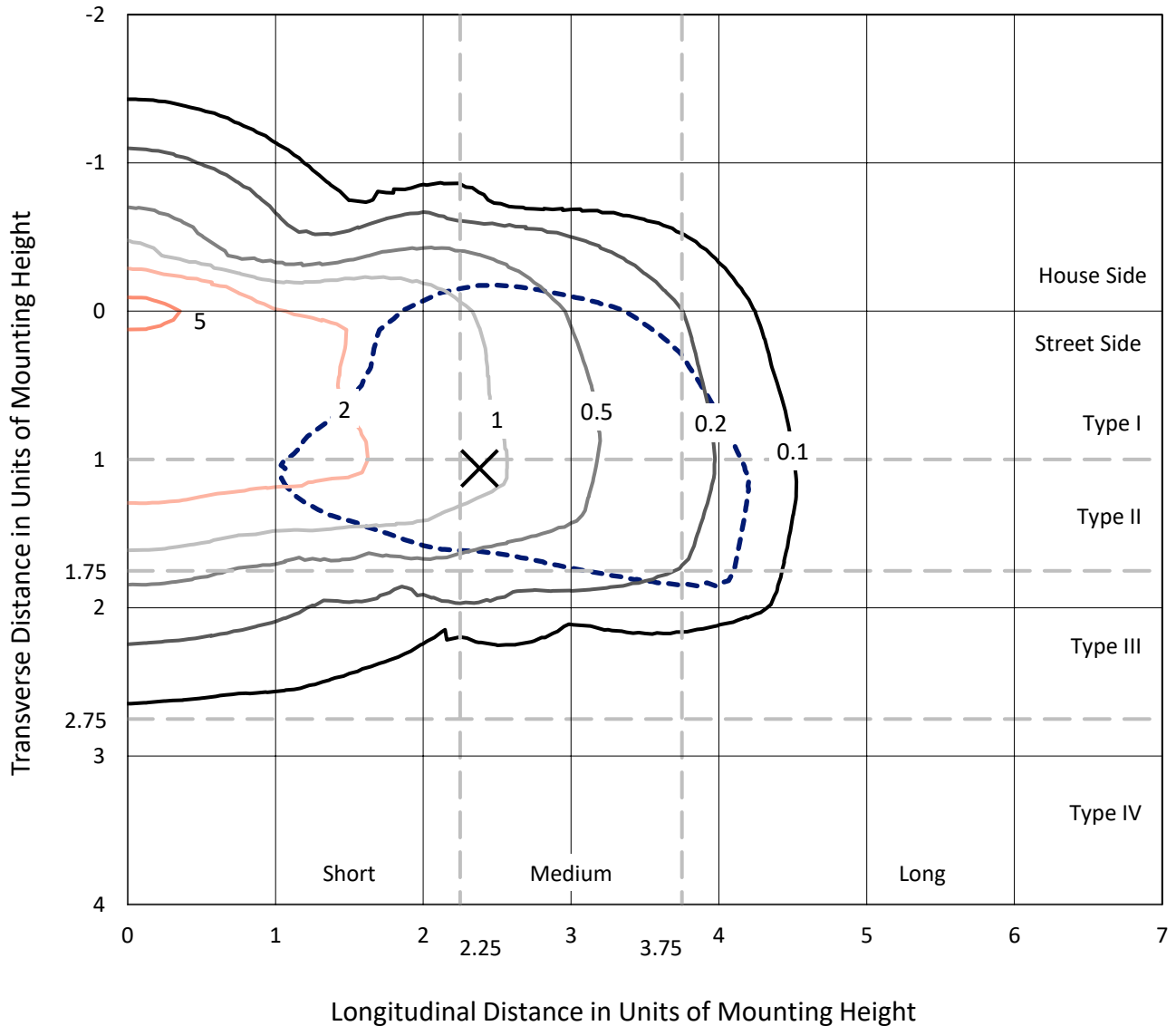




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Iso-Footcandle Lines of Horizontal Illumination

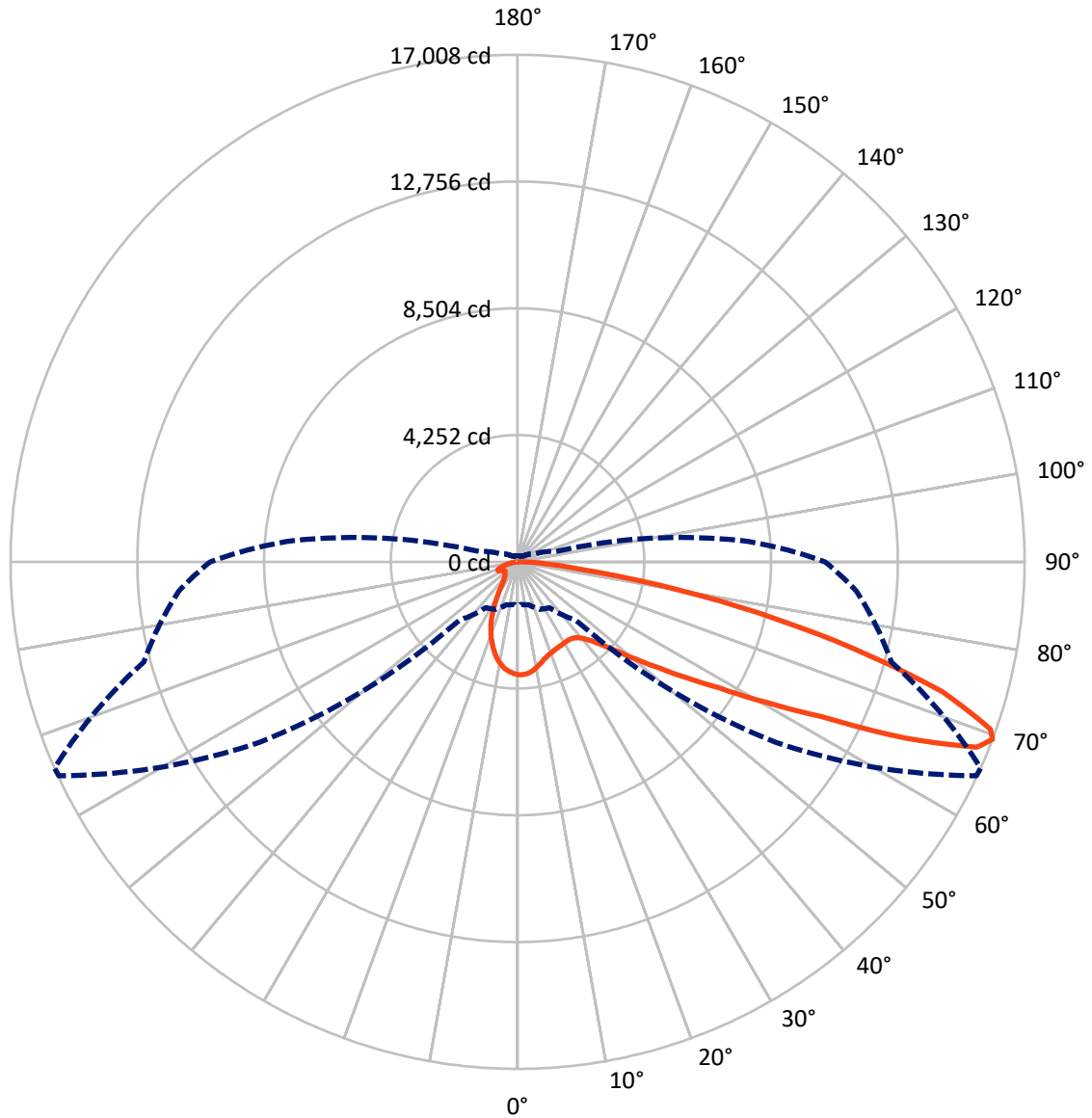
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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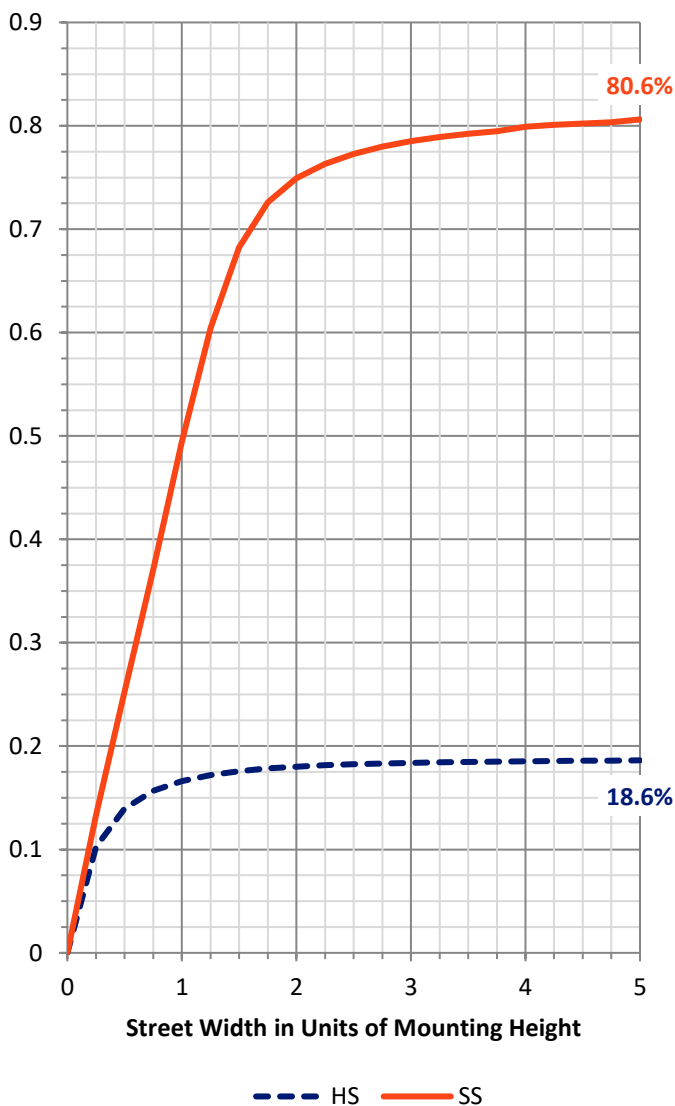
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3084.8	0.0	3084.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13318.3	0.0	13318.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	16403.1	0.0	16403.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	2.0
10°-20°	780.2	4.8
20°-30°	1062.2	6.5
30°-40°	1427.3	8.7
40°-50°	2131.2	13.0
50°-60°	3390.1	20.7
60°-70°	4169.6	25.4
70°-80°	2712.9	16.5
80°-90°	400.6	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°	16403.1	100.0
0°-180°	16403.1	100.0

Coefficient of Utilization

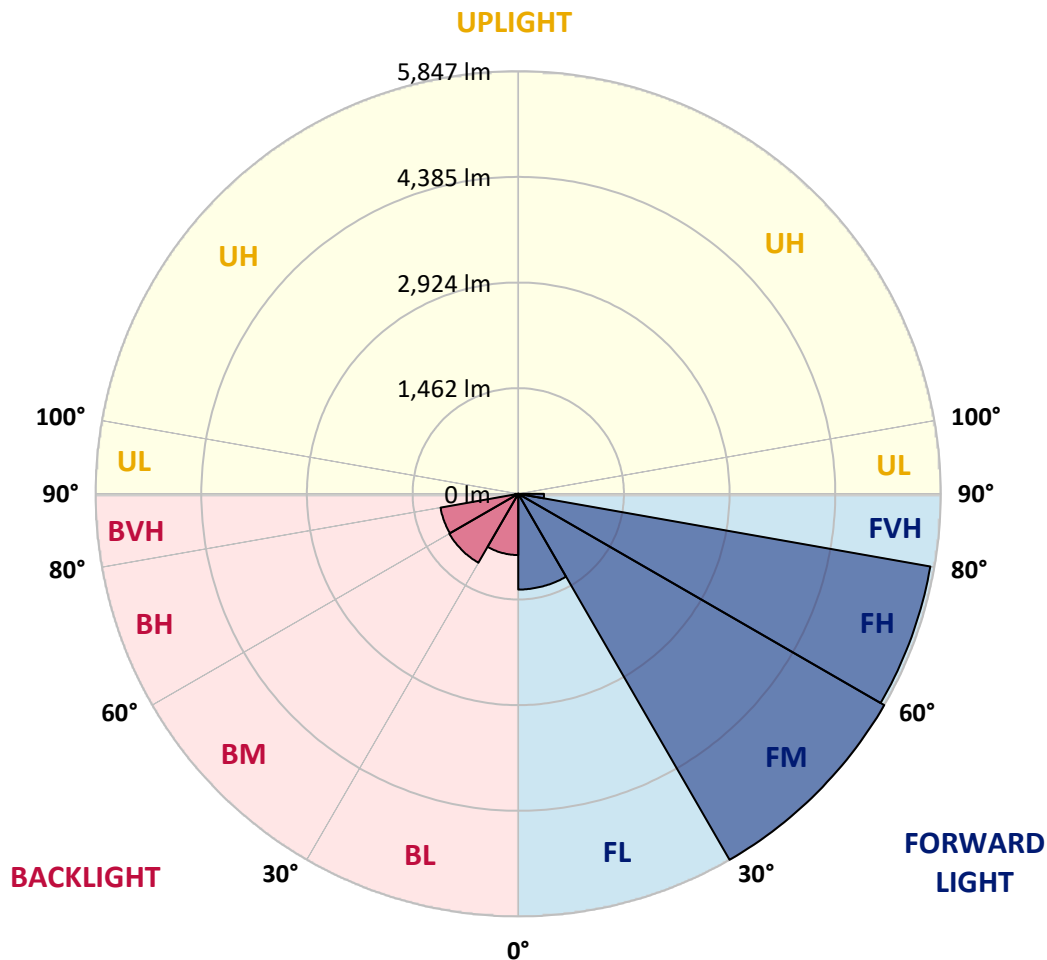


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.5	8.1			
FM (30°-60°)	5847.2	35.6			
FH (60°-80°)	5790.4	35.3			G3/7500
FVH (80°-90°)	356.2	2.2			G3/500
BL (0°-30°)	846.8	5.2	B2/1000		
BM (30°-60°)	1101.4	6.7	B2/2500		
BH (60°-80°)	1092.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	44.4	0.3			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°	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9
2.5°	3655.3	3669.8	3686.2	3704.4	3738.9	3757.9	3771.6	3787.0	3788.9	3797.0	3790.7
5°	3385.5	3402.8	3427.3	3461.8	3513.6	3594.4	3678.0	3746.1	3754.3	3792.5	3803.3
7.5°	3160.3	3170.2	3190.2	3245.6	3319.2	3409.1	3530.9	3668.9	3688.9	3779.8	3811.6
10°	2976.7	2986.8	3010.3	3067.6	3140.2	3252.9	3386.4	3568.1	3584.4	3740.7	3813.4
12.5°	2839.5	2848.6	2874.1	2930.5	3014.0	3119.4	3266.5	3459.1	3482.7	3688.9	3796.1
15°	2735.1	2752.4	2773.3	2819.6	2907.7	3009.5	3152.0	3359.1	3378.3	3634.4	3784.3
17.5°	2690.6	2698.8	2713.3	2756.0	2820.5	2920.4	3064.0	3281.1	3303.8	3596.2	3781.6
20°	2692.4	2700.6	2703.3	2727.0	2773.3	2859.6	3001.2	3219.3	3246.6	3562.6	3786.1
22.5°	2754.2	2755.1	2745.1	2736.9	2755.1	2826.9	2956.8	3173.0	3204.7	3548.1	3789.7
25°	2849.6	2865.9	2851.4	2813.2	2779.6	2814.2	2939.5	3147.5	3177.5	3527.3	3785.2
27.5°	3004.0	3006.7	2994.9	2943.1	2855.9	2830.5	2932.3	3128.5	3153.8	3511.8	3762.5
30°	3211.1	3202.9	3192.1	3134.8	2997.6	2893.2	2947.7	3111.2	3137.6	3489.0	3735.2
32.5°	3420.9	3446.4	3436.4	3369.2	3191.1	3014.9	2997.6	3109.4	3131.1	3471.8	3705.2
35°	3643.5	3655.3	3702.6	3668.0	3485.4	3212.0	3091.2	3137.6	3154.8	3472.7	3684.4
37.5°	3817.9	3849.7	3960.5	3990.5	3818.8	3472.7	3242.9	3217.4	3224.7	3517.2	3692.5
40°	4028.6	4083.1	4225.8	4348.4	4235.7	3811.6	3500.9	3365.5	3374.7	3624.4	3746.1
42.5°	4295.7	4333.8	4525.5	4691.7	4673.6	4259.4	3813.4	3608.1	3612.6	3837.9	3896.1
45°	4608.2	4662.7	4878.0	5127.8	5170.5	4766.3	4264.8	3975.1	3972.3	4169.5	4175.8
47.5°	5007.8	5041.5	5254.9	5527.4	5700.1	5403.0	4812.6	4501.9	4472.8	4652.7	4600.9
50°	5375.8	5428.5	5590.2	5888.1	6317.7	6148.8	5532.9	5185.0	5116.9	5284.9	5197.7
52.5°	5530.2	5585.6	5721.9	6091.6	6847.3	7113.5	6447.6	5999.8	5886.3	6015.2	5983.5
55°	5262.2	5334.0	5461.1	5910.8	7079.9	8226.3	7681.2	6941.8	6859.2	6803.7	6812.8
57.5°	4541.9	4610.0	4781.7	5277.7	6801.9	9033.8	9442.6	8152.7	7975.6	7720.3	7763.9
60°	3457.3	3499.9	3589.0	4138.5	5978.0	9243.6	11442.8	9683.3	9570.6	8633.2	8664.1
62.5°	2455.3	2503.5	2565.3	2839.5	4376.6	8652.3	13008.8	11820.7	11418.3	9578.8	9548.8
65°	1993.9	1961.2	2035.6	2163.7	2568.0	6705.6	13361.3	14787.4	14233.3	10824.2	10408.2
67.5°	1639.6	1605.1	1678.7	1906.7	1953.0	3892.4	12091.4	16713.2	16602.3	12178.5	11281.1
69°	1451.6	1433.4	1497.9	1757.7	1874.9	2764.1	10533.5	16981.2	17007.5	12977.1	11415.5
70°	1308.1	1315.4	1378.0	1682.3	1839.4	2279.1	9002.9	16611.4	16834.9	13375.8	11270.2
72.5°	962.9	978.4	1065.5	1393.4	1805.8	1933.9	5357.6	14509.5	14904.6	13399.5	10310.1
75°	673.1	665.9	743.1	1049.1	1705.9	1916.7	3146.6	11221.2	11669.0	11581.7	8663.2
77.5°	440.6	452.3	514.1	741.3	1435.2	1902.1	2051.1	7961.0	8251.6	7745.7	5124.1
80°	310.7	309.8	344.3	506.0	1064.6	1827.7	1679.6	5017.9	4944.3	3044.0	1519.7
82.5°	178.1	190.7	230.8	356.1	712.1	1608.8	1545.2	2399.9	2191.0	867.5	513.3
85°	99.0	103.6	137.2	215.2	416.0	1211.8	1349.0	1091.9	1030.1	362.5	220.7
87.5°	31.8	34.5	57.2	109.0	188.9	572.3	764.0	504.2	465.1	130.8	89.0
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°	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9	3787.9
2.5°	3793.4	3804.3	3775.2	3747.0	3721.6	3686.2	3654.4	3628.0	3609.9	3607.1	3598.0
5°	3806.1	3807.0	3751.6	3677.1	3604.5	3524.5	3441.8	3382.8	3327.4	3296.5	3281.1
7.5°	3815.2	3807.0	3707.1	3586.3	3446.4	3301.0	3155.7	3039.4	2949.5	2914.1	2927.7
10°	3811.6	3786.1	3639.9	3446.4	3242.9	3025.8	2816.8	2653.4	2503.5	2426.3	2428.1
12.5°	3791.5	3749.8	3539.9	3289.2	2990.4	2699.7	2379.9	2159.2	1985.7	1883.0	1851.2
15°	3774.3	3701.6	3422.7	3075.8	2704.2	2289.1	1899.4	1626.9	1481.6	1400.7	1399.8
17.5°	3756.1	3655.3	3294.7	2849.6	2375.4	1841.3	1432.5	1224.5	1156.3	1164.6	1150.9
20°	3737.0	3600.8	3161.1	2597.9	1974.8	1373.5	1072.8	988.3	1007.4	1044.6	1050.1
22.5°	3715.3	3542.7	3017.6	2320.9	1553.3	1033.7	870.2	857.5	906.6	964.7	972.9
25°	3681.7	3470.0	2836.9	2031.1	1198.1	833.0	762.1	771.2	819.3	868.4	873.8
27.5°	3634.4	3380.1	2654.3	1669.6	900.2	714.9	696.7	708.5	732.2	762.1	769.4
30°	3570.8	3278.3	2444.4	1357.1	721.2	655.8	648.6	654.9	668.5	681.3	684.9
32.5°	3507.2	3180.2	2232.8	1039.2	643.2	616.8	609.5	609.5	609.5	611.4	612.2
35°	3448.2	3087.6	2005.7	809.4	602.3	585.9	575.9	565.0	563.2	556.9	556.9
37.5°	3415.5	3003.1	1764.1	677.7	572.3	560.5	546.8	528.7	518.7	519.6	517.8
40°	3421.9	2947.7	1544.2	603.1	547.8	535.0	514.1	493.2	486.9	486.9	485.1
42.5°	3493.6	2929.5	1333.5	564.1	524.1	509.6	483.3	464.2	460.6	459.6	461.4
45°	3659.0	2974.0	1144.6	538.7	504.2	482.3	456.0	438.7	435.1	435.1	434.2
47.5°	3981.4	3118.5	1009.2	522.3	489.6	461.4	434.2	416.9	410.6	408.8	408.8
50°	4482.8	3431.8	908.4	507.8	471.4	442.4	414.2	394.2	384.2	383.4	382.4
52.5°	5179.5	3920.6	869.3	496.9	451.5	422.4	391.5	372.4	359.7	357.0	355.2
55°	5994.3	4602.7	922.9	488.7	430.6	399.7	367.9	347.9	336.1	330.7	329.7
57.5°	6938.2	5422.1	1126.4	477.8	411.5	375.1	344.3	324.3	311.6	305.2	303.4
60°	7785.7	6264.2	1481.6	471.4	395.2	348.8	317.0	298.9	287.0	280.7	279.8
62.5°	8716.7	7067.1	1905.7	488.7	387.9	323.4	291.6	275.2	265.3	258.9	258.9
65°	9711.5	7871.1	2186.4	546.8	398.8	303.4	264.3	250.7	241.6	237.1	236.2
67.5°	10381.8	8149.0	1801.3	606.8	426.0	281.6	238.0	227.1	221.7	217.1	217.1
69°	10309.1	7797.5	1329.0	622.3	434.2	270.7	223.5	215.2	208.0	206.2	204.4
70°	10079.3	7396.9	1113.7	612.2	427.8	260.7	214.4	204.4	198.0	196.2	195.3
72.5°	8977.5	6415.0	829.4	532.3	364.3	226.2	189.9	180.8	175.3	172.6	172.6
75°	7458.7	5243.1	647.7	423.3	285.2	190.7	162.6	155.3	150.8	149.0	148.1
77.5°	4180.4	2927.7	465.1	331.5	216.2	154.4	136.2	129.9	125.4	123.6	123.6
80°	1164.6	836.6	273.4	218.9	147.1	117.2	108.1	103.6	97.2	92.6	95.4
82.5°	438.7	362.5	156.2	131.7	93.6	78.1	75.4	71.7	69.1	62.6	62.6
85°	213.4	176.3	99.9	69.9	51.8	40.9	39.1	37.3	35.4	30.9	31.8
87.5°	73.6	78.1	43.6	25.4	15.4	10.0	8.1	4.5	4.5	4.5	4.5
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)