

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: P648511

Luminaire Tested: **GALN-SA6B-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20685.3 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

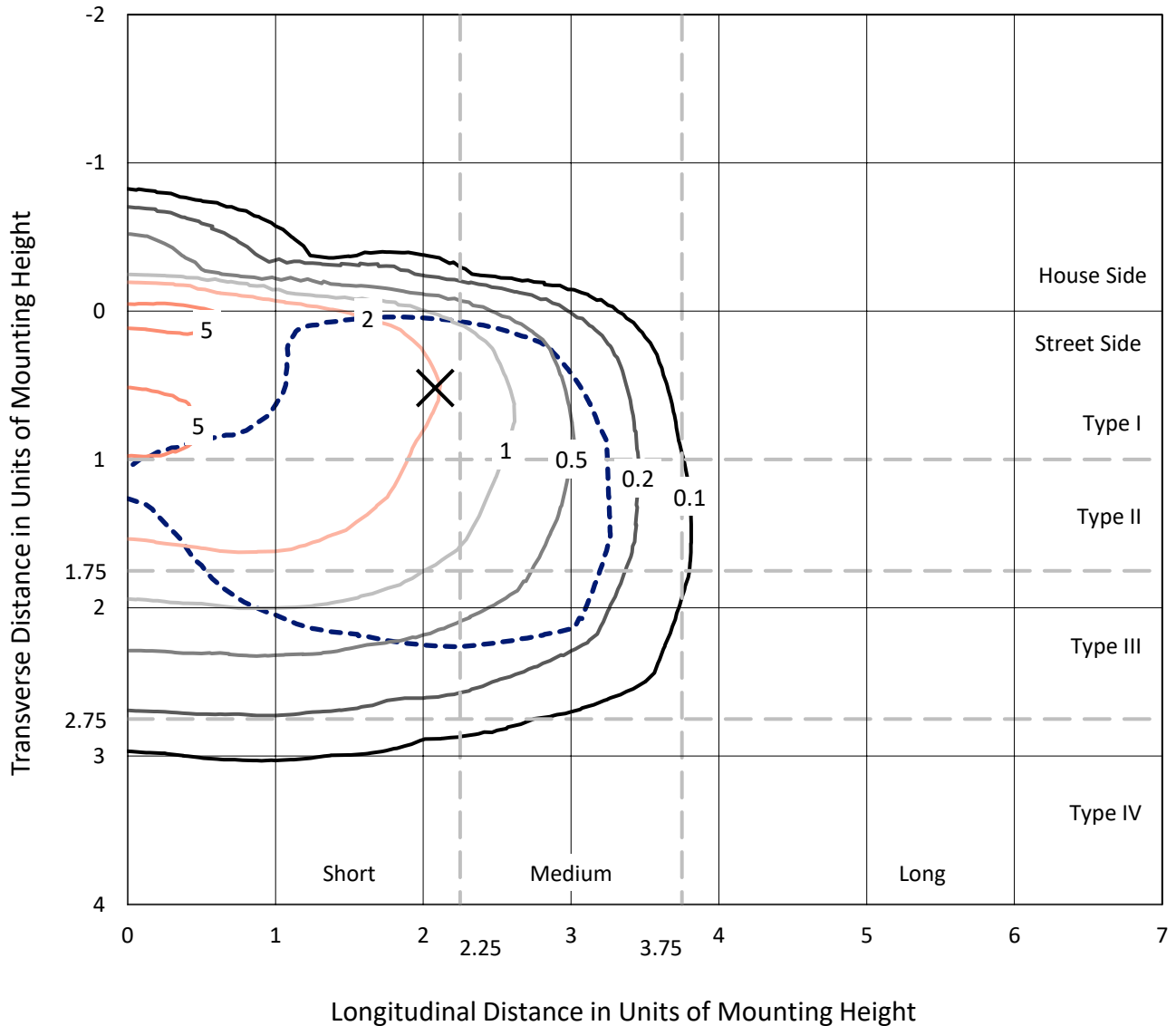
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

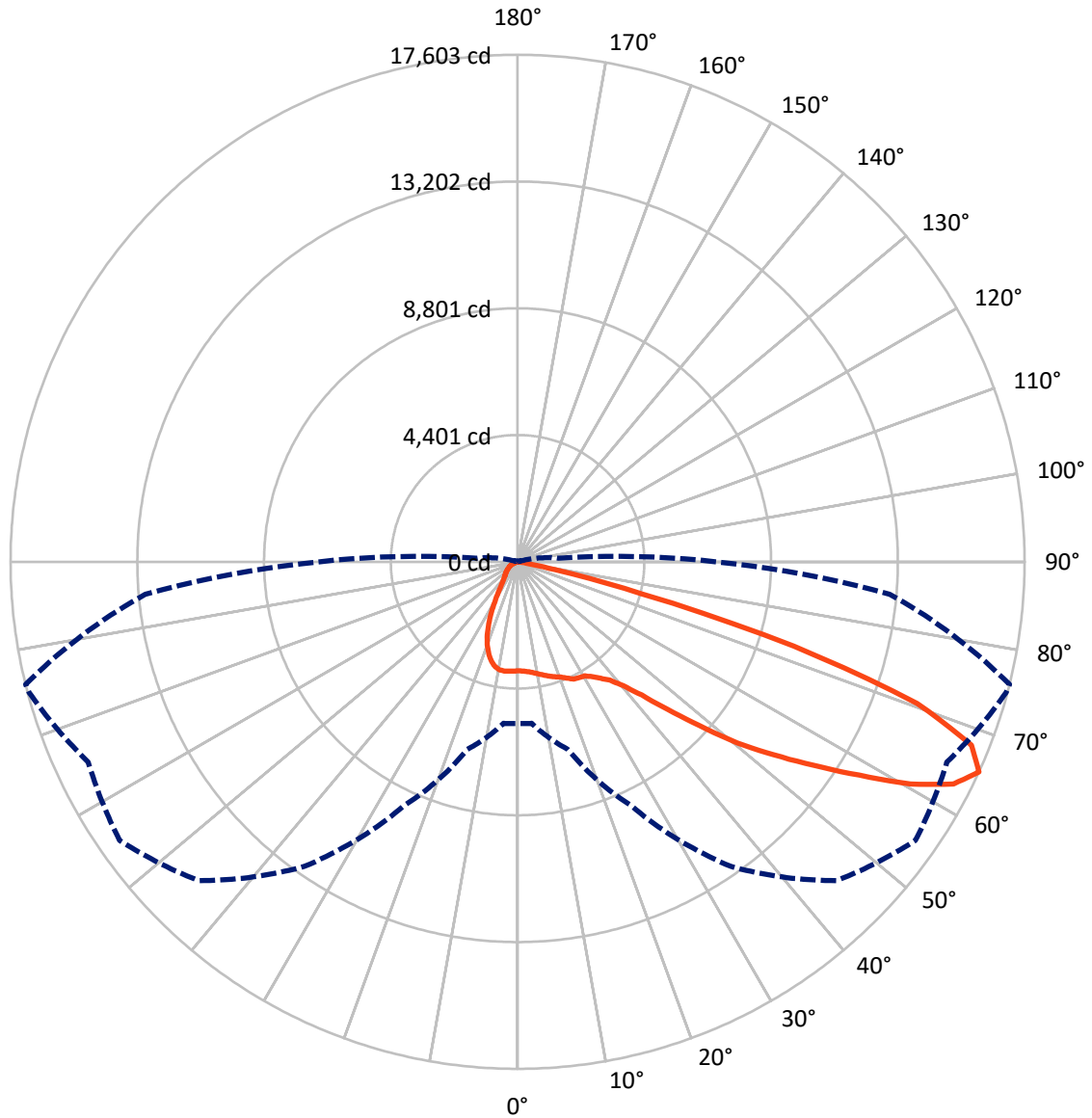
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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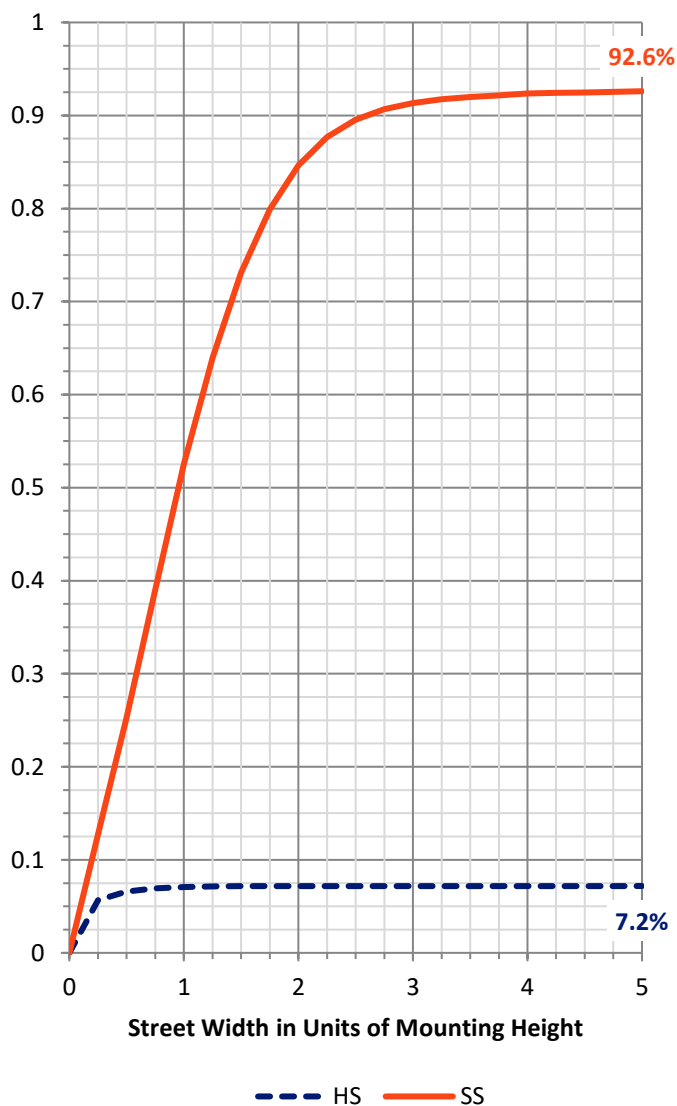
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1493.9	0.0	1493.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19191.4	0.0	19191.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	20685.3	0.0	20685.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.7	1.5
10°-20°	694.0	3.4
20°-30°	1118.4	5.4
30°-40°	1944.6	9.4
40°-50°	3213.4	15.5
50°-60°	4964.0	24.0
60°-70°	6061.8	29.3
70°-80°	2300.6	11.1
80°-90°	76.8	0.4
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°	20685.3	100.0
0°-180°	20685.3	100.0

**Coefficient of Utilization**



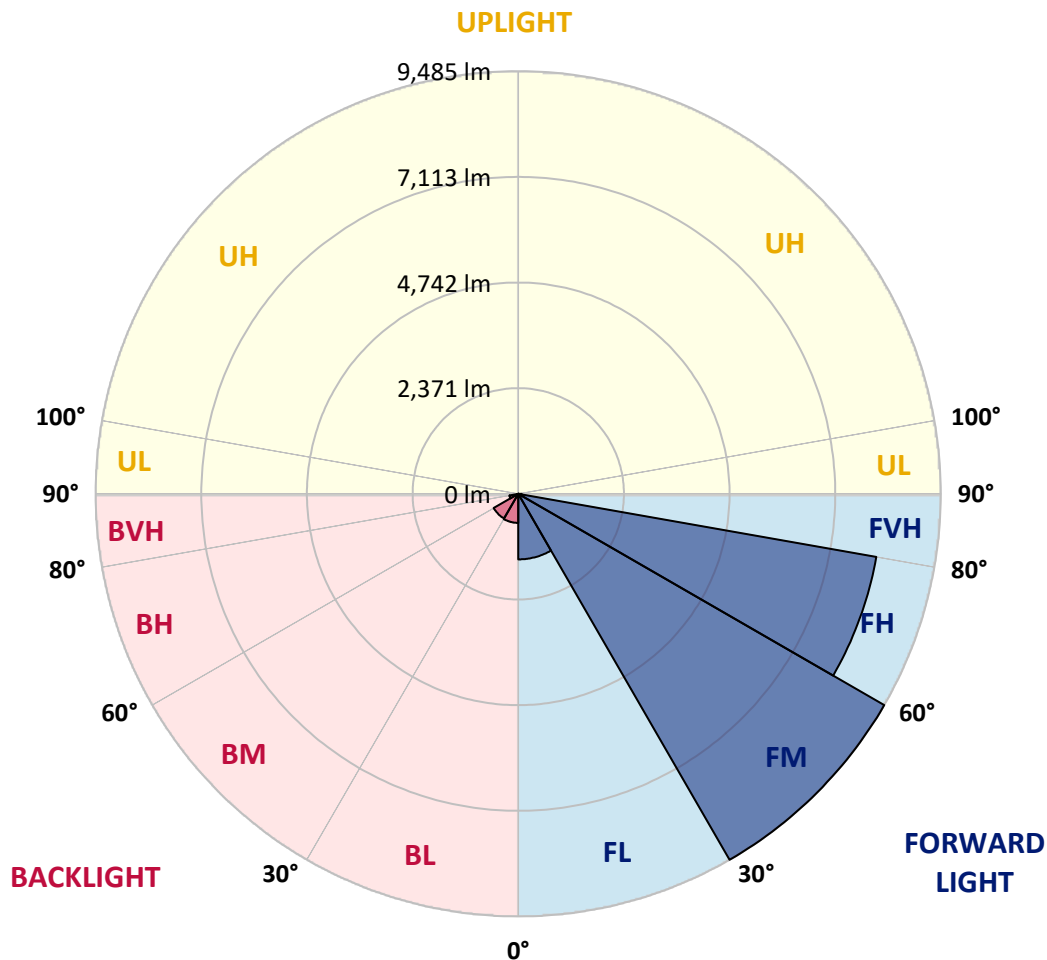
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.5	7.1			
FM (30°-60°)	9484.5	45.9			
FH (60°-80°)	8159.6	39.4			G4/12000
FVH (80°-90°)	75.7	0.4			G1/100
BL (0°-30°)	652.6	3.2	B2/1000		
BM (30°-60°)	637.5	3.1	B1/1000		
BH (60°-80°)	202.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0
2.5°	3616.1	3617.5	3626.3	3648.2	3681.7	3709.5	3732.9	3770.8	3797.2	3800.1	3808.8
5°	3366.4	3348.8	3366.4	3423.3	3474.4	3551.8	3646.7	3741.6	3826.4	3832.2	3873.1
7.5°	3085.9	3100.5	3128.2	3186.7	3283.0	3401.4	3538.6	3708.1	3868.7	3883.3	3963.6
10°	2801.1	2833.3	2878.5	2967.6	3102.0	3255.3	3442.2	3684.7	3935.9	3956.3	4095.1
12.5°	2538.3	2552.8	2608.3	2728.1	2894.6	3110.7	3369.2	3671.6	4010.4	4035.2	4235.2
15°	2336.7	2355.7	2403.9	2511.9	2697.4	2974.9	3309.3	3667.2	4083.4	4118.4	4375.5
17.5°	2298.7	2310.4	2330.8	2403.9	2566.0	2866.9	3255.3	3665.7	4153.5	4195.9	4505.5
20°	2455.0	2444.8	2424.3	2417.0	2506.1	2783.6	3215.9	3677.4	4220.7	4268.8	4642.7
22.5°	2846.4	2859.5	2739.8	2598.2	2568.9	2770.5	3210.1	3732.9	4327.2	4384.3	4796.1
25°	3677.4	3576.6	3389.7	3050.9	2795.3	2850.7	3275.8	3864.3	4451.4	4514.2	4934.9
27.5°	4596.0	4565.4	4274.7	3716.8	3240.7	3020.2	3392.6	3965.1	4492.3	4556.6	5013.7
30°	5498.5	5535.1	5202.1	4585.8	3887.7	3334.2	3502.1	4003.1	4528.8	4596.0	5114.5
32.5°	6335.4	6379.2	6087.1	5476.6	4650.1	3877.5	3690.5	4150.6	4682.2	4750.8	5282.4
35°	6994.1	6999.9	6779.4	6293.0	5482.5	4537.6	4098.0	4409.1	4889.5	4969.9	5460.6
37.5°	7598.7	7589.9	7331.4	6912.2	6176.2	5193.3	4610.6	4707.0	5126.1	5209.4	5717.6
40°	8047.0	8052.8	7969.6	7575.3	6823.1	5799.4	5016.6	4985.9	5523.4	5653.3	6091.5
42.5°	8346.4	8400.4	8441.4	8241.2	7636.7	6545.7	5640.2	5583.3	6212.7	6320.8	6620.2
45°	8588.9	8685.3	8889.7	8879.5	8418.0	7461.4	6496.0	6379.2	7189.7	7305.2	7293.4
47.5°	8765.5	8863.4	9202.2	9406.7	9152.6	8349.4	7572.4	7471.6	8356.6	8482.2	8036.8
50°	8856.1	8972.9	9405.2	9801.0	9726.5	9205.2	8799.1	8805.0	9766.0	9887.2	8898.5
52.5°	8644.3	8796.2	9513.3	10226.0	10370.6	10024.4	9948.5	10141.3	11020.5	11124.2	9676.9
55°	7968.2	8159.5	9365.8	10588.2	11116.9	10991.3	11254.1	11547.7	12391.8	12459.0	10475.8
57.5°	7540.3	7743.2	8930.6	10896.3	12013.6	12206.3	12622.6	12837.3	13807.0	13977.9	11392.9
60°	7179.6	7338.7	8572.8	10962.1	12924.9	13693.1	14097.6	14319.6	15553.7	15664.7	12402.1
62.5°	6579.3	6761.8	7968.2	10503.5	13383.5	14883.3	15721.6	15622.3	16904.6	16982.0	13021.3
65°	5614.0	5630.0	6741.4	9351.2	12910.3	15655.9	16862.2	16446.1	17550.1	17602.7	12973.1
67.5°	4190.0	4344.8	5186.0	7350.4	10905.1	14995.8	17231.7	16467.9	17142.6	16996.6	11943.5
70°	2698.9	2817.2	3515.3	5096.9	7863.0	12514.5	16006.4	15339.0	15045.4	14721.3	9776.2
72.5°	1245.8	1397.7	2088.4	2912.1	4663.2	8914.5	12993.6	12461.9	10829.1	10028.8	6214.2
75°	543.2	581.2	1031.1	1536.4	2186.3	4714.3	8567.0	7736.0	4891.0	4467.5	2487.1
77.5°	331.5	356.3	540.3	823.7	858.7	1796.4	4615.0	3375.0	1511.6	1333.4	674.7
80°	224.9	252.7	392.8	430.8	293.5	501.0	1732.1	901.1	305.2	292.1	144.6
82.5°	109.5	138.7	290.6	241.0	127.1	160.7	503.9	192.8	89.1	83.2	51.1
85°	16.1	27.7	163.6	157.7	56.9	38.0	89.1	48.2	30.7	29.2	23.3
87.5°	0.0	0.0	55.5	24.8	5.9	5.9	10.3	10.3	11.7	10.3	11.7
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°	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0	3784.0
2.5°	3813.2	3820.5	3792.8	3753.3	3711.0	3668.6	3608.8	3554.7	3522.6	3541.6	3494.8
5°	3881.9	3876.0	3803.0	3683.2	3524.0	3332.8	3142.9	2980.7	2928.2	2849.3	2840.6
7.5°	3976.8	3960.7	3805.9	3531.3	3172.1	2812.8	2462.3	2230.1	2097.2	1984.7	1987.6
10°	4109.7	4062.9	3772.3	3264.1	2672.6	2130.8	1683.9	1377.2	1244.3	1201.9	1168.3
12.5°	4247.0	4156.4	3678.8	2903.4	2081.1	1456.1	1023.8	836.9	755.0	728.7	725.8
15°	4369.6	4226.5	3515.3	2469.6	1513.0	930.3	698.1	636.7	626.6	628.0	626.6
17.5°	4490.8	4282.0	3288.9	2009.6	1028.2	667.4	600.2	585.6	590.0	595.9	594.4
20°	4591.6	4293.7	2999.8	1533.4	727.3	585.6	563.8	560.8	565.2	569.6	569.6
22.5°	4701.1	4302.4	2656.6	1061.7	594.4	544.7	533.1	533.1	538.9	544.7	546.2
25°	4783.0	4254.3	2246.2	762.3	524.3	505.3	499.5	501.0	506.8	509.7	508.2
27.5°	4796.1	4118.4	1810.9	584.2	476.1	457.1	451.2	457.1	449.8	454.2	451.2
30°	4807.8	3946.1	1369.9	492.2	432.3	403.1	394.3	385.5	379.7	372.4	371.0
32.5°	4844.3	3743.1	1000.4	442.6	391.4	359.2	338.8	314.0	295.0	289.2	287.7
35°	4860.3	3499.2	734.6	403.1	354.9	319.9	283.3	248.3	220.5	210.3	217.6
37.5°	4921.7	3262.6	569.6	373.9	322.8	279.0	232.2	188.4	162.1	156.3	159.2
40°	5047.3	3005.6	477.6	349.1	295.0	241.0	184.0	141.6	124.1	118.3	116.8
42.5°	5248.8	2750.0	425.0	325.6	267.2	203.0	144.6	111.0	96.4	92.0	92.0
45°	5494.2	2504.7	388.4	300.8	238.0	163.6	113.9	89.1	80.3	77.4	77.4
47.5°	5816.9	2290.0	357.8	276.0	205.9	130.0	92.0	77.4	71.6	73.1	74.5
50°	6144.0	2130.8	324.2	248.3	169.4	106.6	78.8	68.7	67.2	68.7	68.7
52.5°	6390.9	2037.3	279.0	210.3	132.9	89.1	70.1	64.3	62.8	59.9	59.9
55°	6723.9	2016.9	222.0	170.9	105.2	74.5	62.8	58.4	54.0	51.1	49.6
57.5°	7151.8	2040.3	170.9	132.9	81.8	61.3	55.5	48.2	42.4	36.5	36.5
60°	7417.6	1987.6	132.9	102.3	59.9	49.6	42.4	35.1	27.7	23.3	21.9
62.5°	7332.9	1765.7	105.2	76.0	42.4	36.5	27.7	23.3	16.1	11.7	10.3
65°	6896.2	1425.4	84.7	52.5	30.7	21.9	14.6	14.6	7.3	1.5	0.0
67.5°	6036.0	1055.9	67.2	35.1	17.5	10.3	7.3	4.4	0.0	0.0	0.0
70°	4912.9	762.3	52.5	21.9	10.3	7.3	2.9	1.5	0.0	0.0	0.0
72.5°	3119.5	436.7	40.9	13.2	7.3	2.9	0.0	0.0	0.0	0.0	0.0
75°	1206.3	170.9	27.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	341.8	80.3	16.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.1	35.1	8.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	1.5	0.0	0.0	0.0	0.0	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)