

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: P652329

Luminaire Tested: **GALN-SA4B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11049.9 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

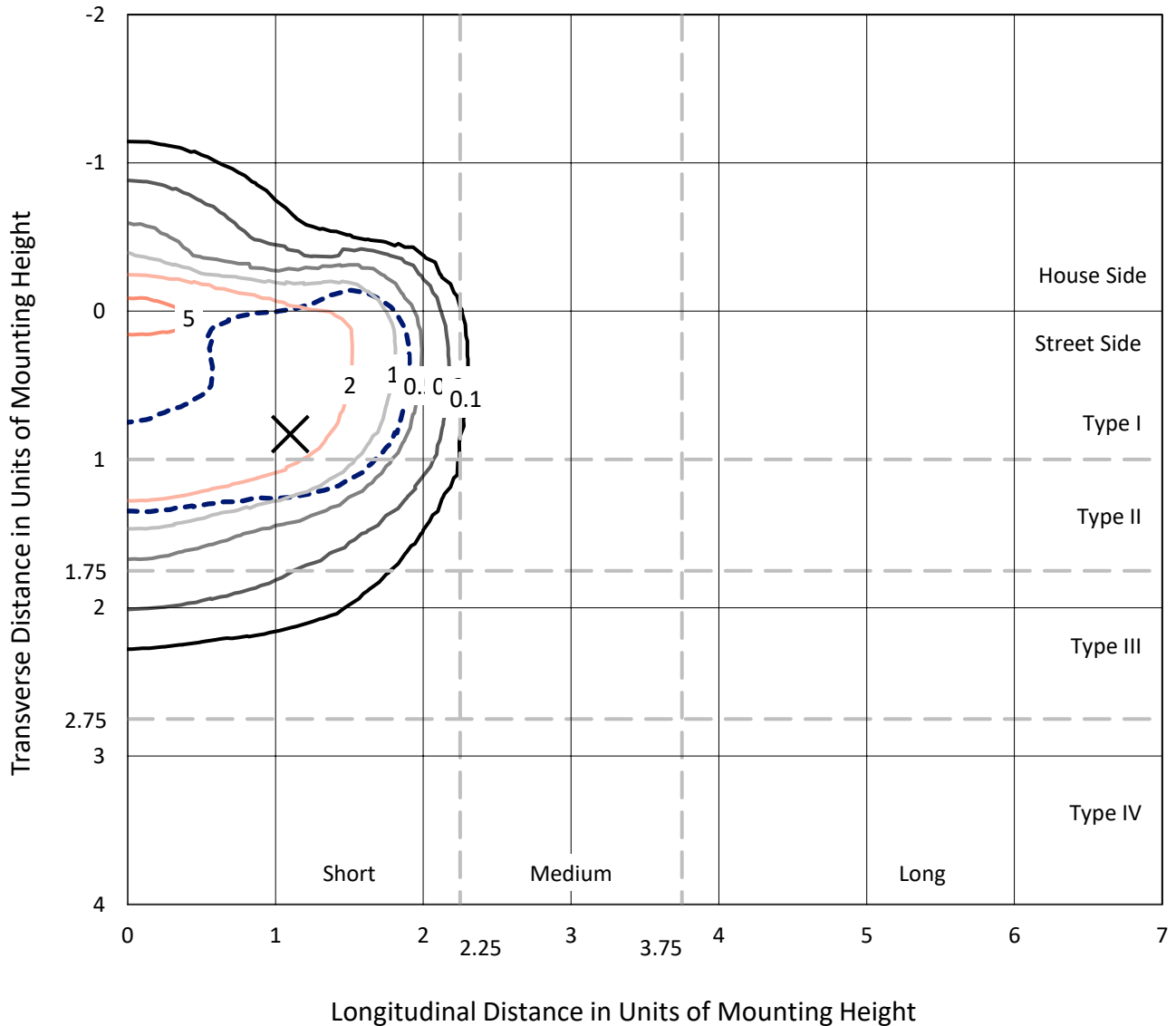
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

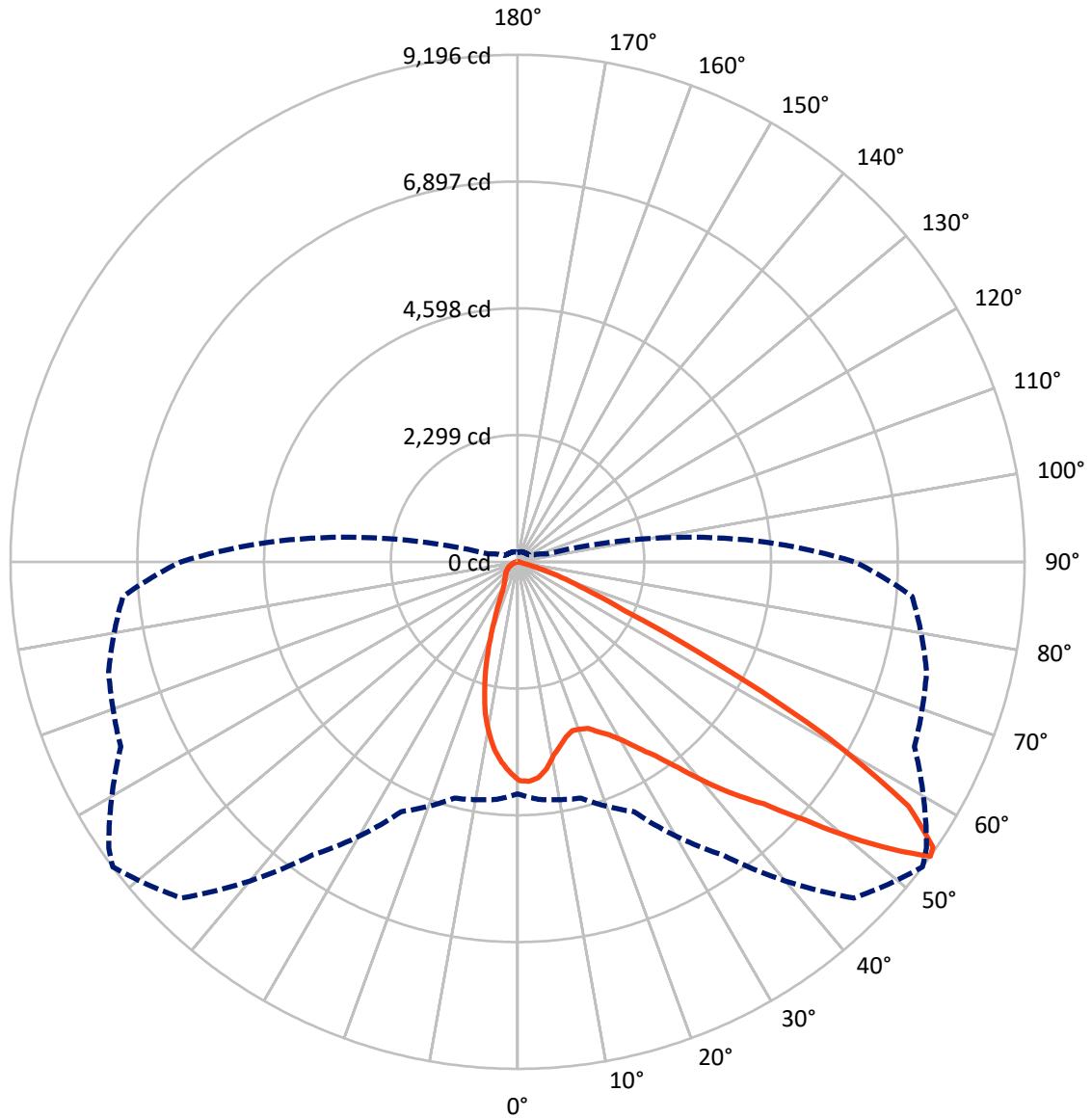
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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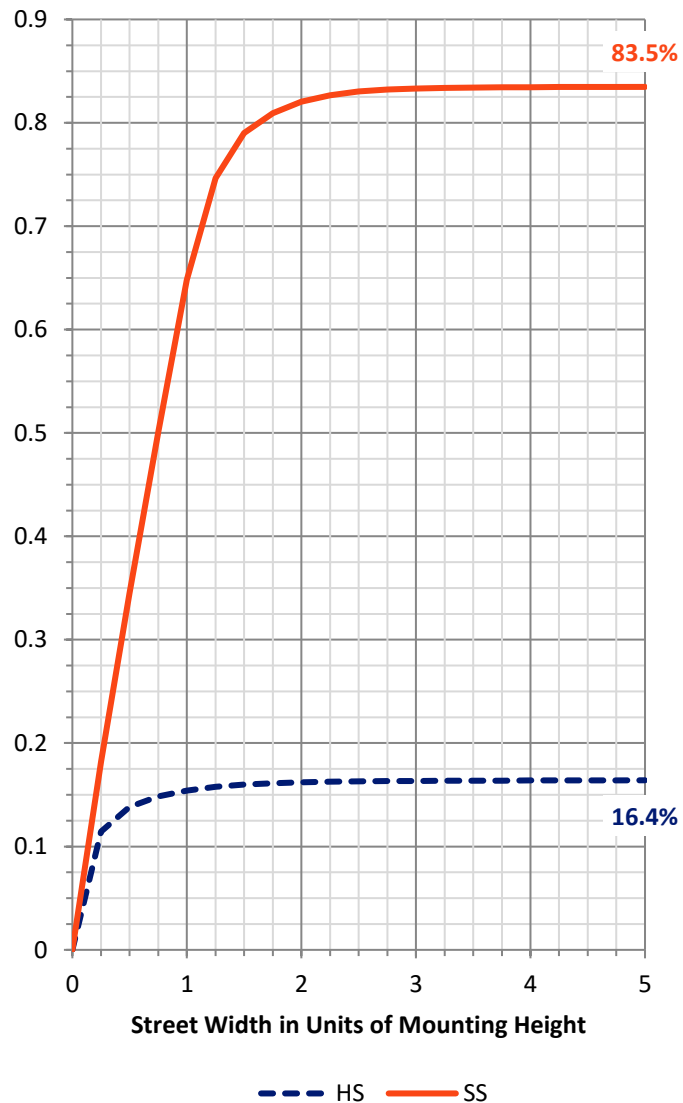
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1828.2	0.0	1828.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9221.7	0.0	9221.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11049.9	0.0	11049.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.5	3.1
10°-20°	780.7	7.1
20°-30°	1109.6	10.0
30°-40°	1712.4	15.5
40°-50°	2684.8	24.3
50°-60°	3118.8	28.2
60°-70°	1178.5	10.7
70°-80°	112.1	1.0
80°-90°	12.6	0.1
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°	11049.9	100.0
0°-180°	11049.9	100.0

**Coefficient of Utilization**

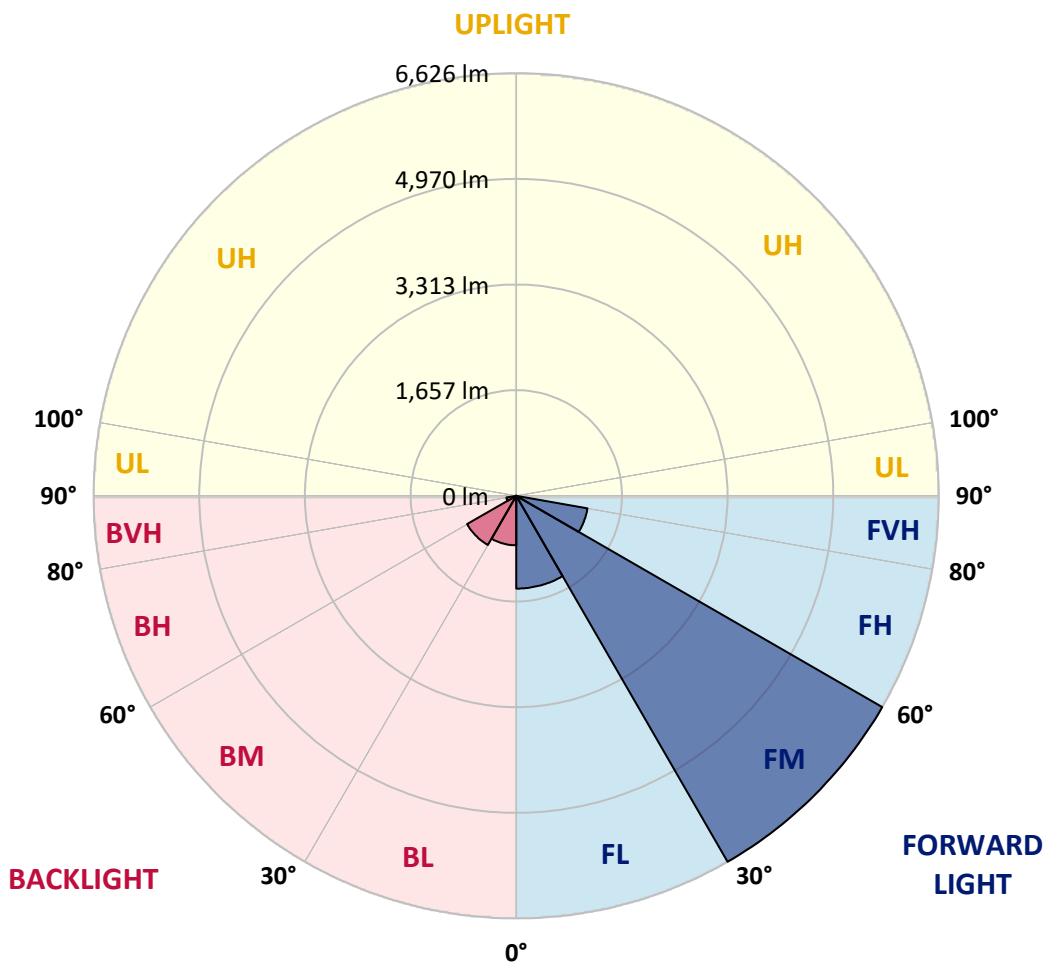


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.0	13.2			
FM (30°-60°)	6626.3	60.0			
FH (60°-80°)	1133.9	10.3			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	775.8	7.0	B2/1000		
BM (30°-60°)	889.7	8.1	B1/1000		
BH (60°-80°)	156.6	1.4	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
2.5°	3948.3	3913.3	3948.3	3952.4	3977.2	3999.8	3985.4	4018.4	3999.8	3979.2	3973.1
5°	3629.3	3676.6	3678.7	3752.8	3736.3	3872.2	3931.8	3915.4	4016.3	4010.1	3995.7
7.5°	3343.1	3324.6	3349.3	3435.7	3544.9	3701.3	3787.8	3785.8	3929.8	4032.8	4022.4
10°	3077.6	3075.5	3127.0	3194.9	3287.6	3452.2	3571.6	3631.4	3855.7	4012.2	4034.8
12.5°	2898.5	2890.3	2945.9	3001.4	3147.5	3275.2	3427.5	3456.3	3713.7	3940.1	3977.2
15°	2781.1	2799.7	2803.8	2910.9	3003.5	3172.3	3291.7	3351.4	3647.8	3882.5	4024.5
17.5°	2760.6	2785.2	2787.3	2875.8	2974.6	3116.7	3221.7	3301.9	3592.2	3911.3	4026.5
20°	2801.7	2787.3	2799.7	2855.3	2952.0	3087.9	3240.2	3266.9	3573.7	3925.7	4049.2
22.5°	2919.0	2914.9	2884.0	2929.4	2997.3	3139.4	3283.4	3324.6	3627.2	3999.8	4067.7
25°	3048.8	3071.4	3042.6	3036.4	3083.8	3223.7	3415.2	3468.7	3806.3	4133.6	4125.4
27.5°	3291.7	3269.1	3269.1	3240.2	3227.8	3295.8	3557.3	3645.7	4006.0	4306.5	4191.3
30°	3524.3	3549.0	3530.4	3540.8	3458.4	3452.2	3758.9	3868.1	4360.1	4570.1	4331.2
32.5°	3892.7	3859.9	3890.7	3864.0	3754.8	3643.7	4032.8	4146.0	4788.2	4872.7	4541.2
35°	4199.5	4185.1	4316.9	4312.7	4135.7	4026.5	4323.0	4491.8	5086.7	5235.0	4788.2
37.5°	4635.9	4609.2	4759.5	4831.5	4672.9	4510.4	4738.9	4934.4	5364.7	5525.2	5041.5
40°	5084.7	5152.6	5354.4	5473.7	5304.9	5088.8	5247.3	5307.0	5549.9	5714.6	5214.4
42.5°	5652.9	5751.7	5957.6	6060.4	6046.0	5811.4	5764.0	5761.9	5683.7	5661.1	5342.0
45°	6198.3	6161.3	6478.3	6702.8	6883.9	6816.0	6262.2	6200.4	5895.7	5741.3	5374.9
47.5°	6437.2	6424.8	6641.0	7040.3	7657.9	7742.3	6986.8	6748.0	6253.9	6079.0	5554.0
50°	6128.4	6192.2	6406.3	6848.9	7795.8	8440.2	7876.1	7555.0	6671.8	6490.7	5978.1
52.5°	5119.7	5162.9	5366.7	5928.7	7326.5	8851.9	8728.4	8543.1	7439.7	7139.2	6717.2
54°	4209.8	4325.1	4436.3	5000.2	6490.7	8623.4	9195.7	9053.6	7940.0	7678.5	7182.4
55°	3666.3	3734.3	3814.5	4376.6	5912.2	8236.3	9142.2	9154.5	8275.4	7847.3	7495.2
57.5°	2678.2	2725.6	2643.2	2892.3	4059.5	6688.3	8362.0	8695.4	8728.4	8100.5	7686.7
60°	2046.2	2066.8	1974.2	2013.3	2523.8	4590.6	6468.0	6869.5	7874.0	7079.5	6511.3
62.5°	1587.1	1591.3	1589.2	1657.2	1739.5	2700.9	4045.1	4401.2	5428.5	5027.1	4421.8
65°	1169.2	1150.7	1183.7	1389.5	1484.2	1698.3	2130.6	2390.0	2950.0	2490.9	1780.6
67.5°	757.6	763.7	796.7	1033.4	1272.2	1303.0	1311.3	1290.8	1292.8	712.2	446.7
70°	455.0	465.2	455.0	584.7	909.9	934.6	854.3	833.7	650.5	168.8	166.8
72.5°	269.7	255.2	228.5	251.1	378.8	452.9	407.6	405.5	255.2	98.8	98.8
75°	113.2	102.9	84.4	76.2	100.8	96.7	96.7	86.5	68.0	65.9	61.7
77.5°	22.6	22.6	16.5	18.5	24.7	28.8	35.0	35.0	41.2	41.2	39.1
80°	0.0	2.0	6.1	12.4	18.5	26.7	30.9	30.9	35.0	35.0	28.8
82.5°	0.0	2.0	6.1	12.4	16.5	24.7	30.9	30.9	35.0	37.1	30.9
85°	0.0	2.0	6.1	10.3	16.5	20.6	20.6	18.5	14.4	12.4	8.2
87.5°	0.0	0.0	2.0	4.1	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
2.5°	3987.4	3985.4	3936.0	3855.7	3837.1	3769.3	3761.0	3719.8	3742.5	3666.3	3658.1
5°	3954.6	3929.8	3870.1	3818.6	3668.4	3561.3	3476.9	3374.0	3314.3	3324.6	3285.5
7.5°	4001.9	3938.1	3833.1	3654.0	3470.7	3283.4	3182.6	2972.6	2896.4	2783.2	2766.7
10°	3952.4	3905.1	3742.5	3446.1	3192.9	2923.1	2686.4	2453.8	2276.8	2200.6	2184.2
12.5°	3948.3	3866.0	3594.3	3264.9	2898.5	2511.5	2167.7	1877.4	1702.4	1603.6	1581.0
15°	3884.5	3785.8	3427.5	2985.0	2478.5	1996.8	1622.1	1342.2	1208.3	1150.7	1167.2
17.5°	3890.7	3742.5	3260.8	2688.5	2064.7	1465.7	1107.5	963.4	928.4	942.8	942.8
20°	3884.5	3645.7	3059.1	2346.8	1581.0	1016.9	813.2	761.7	784.3	829.6	819.3
22.5°	3851.6	3600.5	2873.8	1986.5	1163.1	753.5	652.5	654.6	689.6	745.2	757.6
25°	3876.3	3499.6	2639.1	1622.1	848.1	601.1	566.1	580.5	617.5	658.8	667.0
27.5°	3857.8	3427.5	2394.2	1259.8	619.6	516.7	514.6	531.1	547.6	578.4	578.4
30°	3878.4	3361.6	2153.3	936.6	510.5	473.5	465.2	477.6	494.1	500.2	498.2
32.5°	3954.6	3312.3	1875.3	699.9	450.9	432.3	432.3	432.3	430.3	438.5	440.5
35°	4121.2	3320.5	1630.4	541.4	411.8	397.3	391.1	382.9	378.8	382.9	384.9
37.5°	4302.4	3316.4	1377.2	461.1	382.9	370.5	356.2	343.8	341.7	345.8	339.7
40°	4382.7	3355.5	1142.5	413.8	356.2	341.7	319.1	308.8	310.8	315.0	310.8
42.5°	4491.8	3367.9	990.2	376.7	331.4	308.8	294.3	282.0	280.0	286.1	284.1
45°	4489.8	3297.8	829.6	356.2	308.8	284.1	265.6	255.2	255.2	259.4	261.5
47.5°	4621.5	3287.6	712.2	337.6	292.3	267.6	245.0	236.7	234.6	234.6	230.6
50°	4928.3	3431.6	621.7	317.1	271.7	249.1	230.6	220.3	212.0	207.9	205.9
52.5°	5527.3	3880.5	551.7	292.3	249.1	230.6	214.1	205.9	195.5	185.3	183.3
54°	6107.8	4343.6	547.6	271.7	230.6	218.2	203.8	199.7	187.3	172.9	168.8
55°	6369.2	4613.3	562.0	255.2	218.2	210.0	197.6	193.5	181.2	164.7	162.6
57.5°	6585.4	4718.3	553.8	212.0	197.6	195.5	185.3	179.1	164.7	142.0	137.9
60°	5300.8	3567.5	397.3	187.3	181.2	177.0	168.8	164.7	146.2	121.4	119.4
62.5°	3349.3	2052.4	253.2	164.7	158.5	152.3	142.0	137.9	121.4	96.7	90.6
65°	1426.6	850.2	170.9	146.2	135.9	125.6	117.3	111.2	96.7	72.1	70.0
67.5°	370.5	302.6	142.0	127.7	113.2	98.8	92.6	82.3	65.9	49.4	47.3
70°	166.8	152.3	119.4	107.1	90.6	76.2	68.0	57.6	43.2	33.0	30.9
72.5°	98.8	96.7	90.6	80.3	68.0	57.6	49.4	39.1	28.8	18.5	18.5
75°	61.7	59.7	61.7	55.6	47.3	43.2	37.1	26.7	16.5	8.2	8.2
77.5°	37.1	37.1	37.1	35.0	33.0	33.0	26.7	16.5	8.2	2.0	2.0
80°	28.8	28.8	30.9	28.8	28.8	28.8	22.6	12.4	4.1	0.0	0.0
82.5°	28.8	30.9	35.0	33.0	28.8	24.7	20.6	12.4	4.1	0.0	0.0
85°	8.2	6.1	10.3	14.4	20.6	18.5	14.4	10.3	4.1	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	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)