

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: P528687

Luminaire Tested: **GALN-SA3D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13084 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

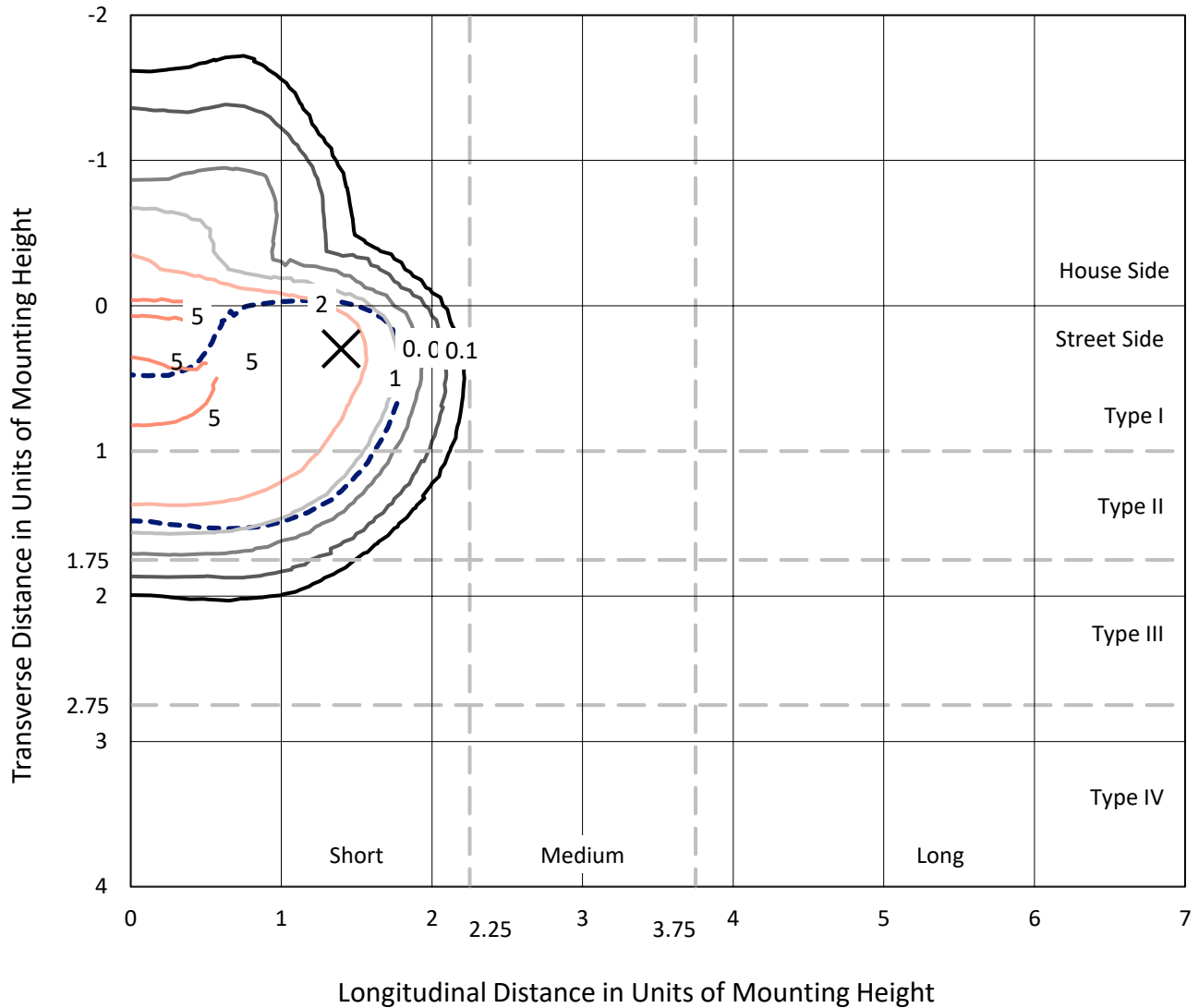
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

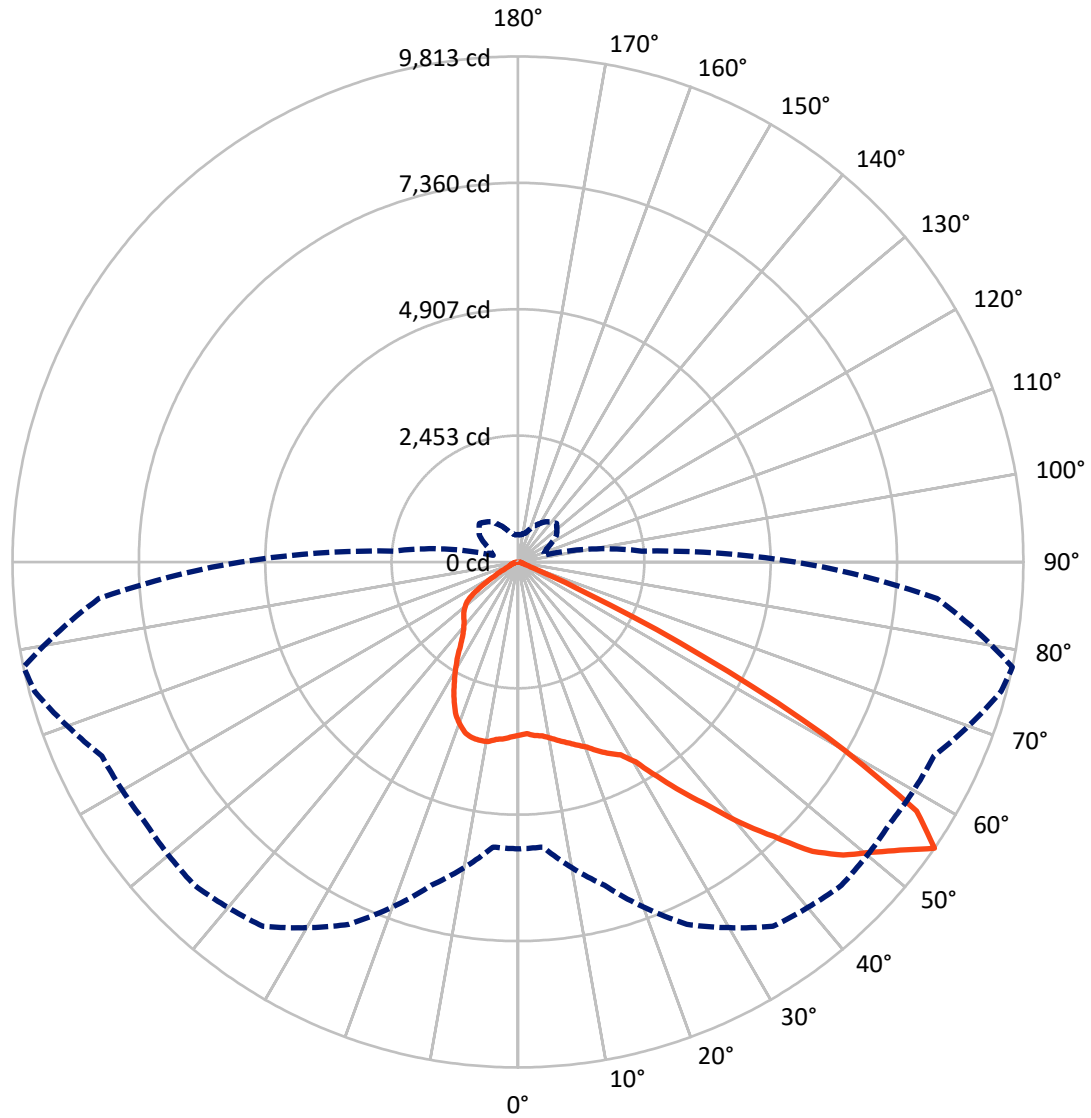
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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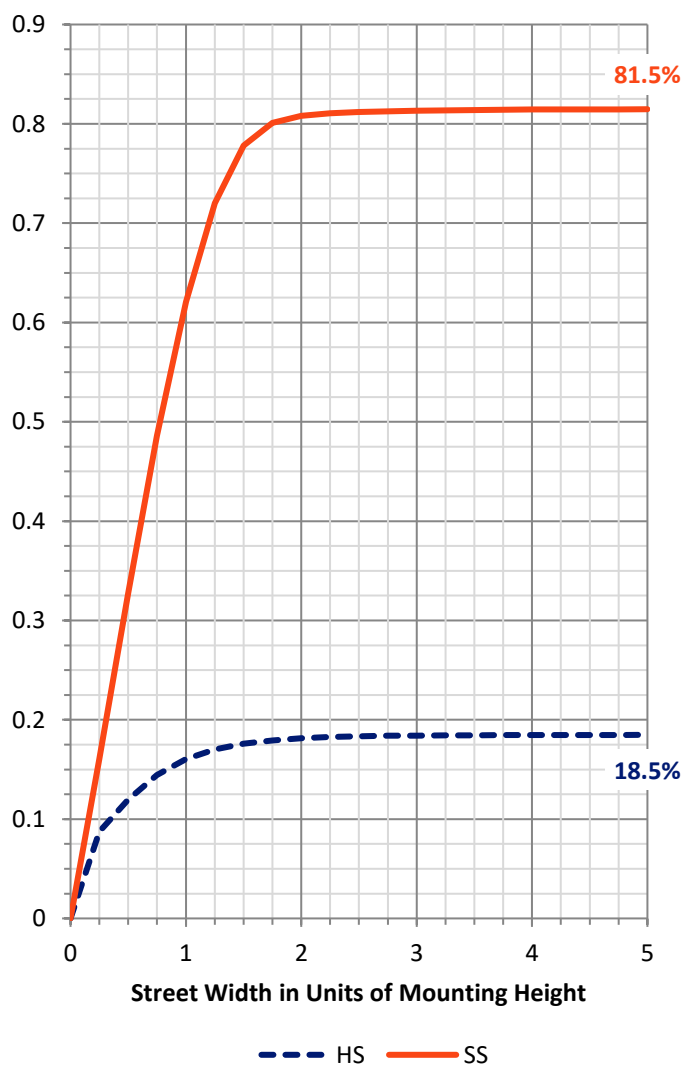
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2430.2	0.0	2430.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	10653.8	0.0	10653.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13084.0	0.0	13084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.0	2.3
10°-20°	793.8	6.1
20°-30°	1391.4	10.6
30°-40°	2294.3	17.5
40°-50°	3338.5	25.5
50°-60°	3782.9	28.9
60°-70°	1081.6	8.3
70°-80°	84.0	0.6
80°-90°	17.5	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°	13084.0	100.0
0°-180°	13084.0	100.0

**Coefficient of Utilization**



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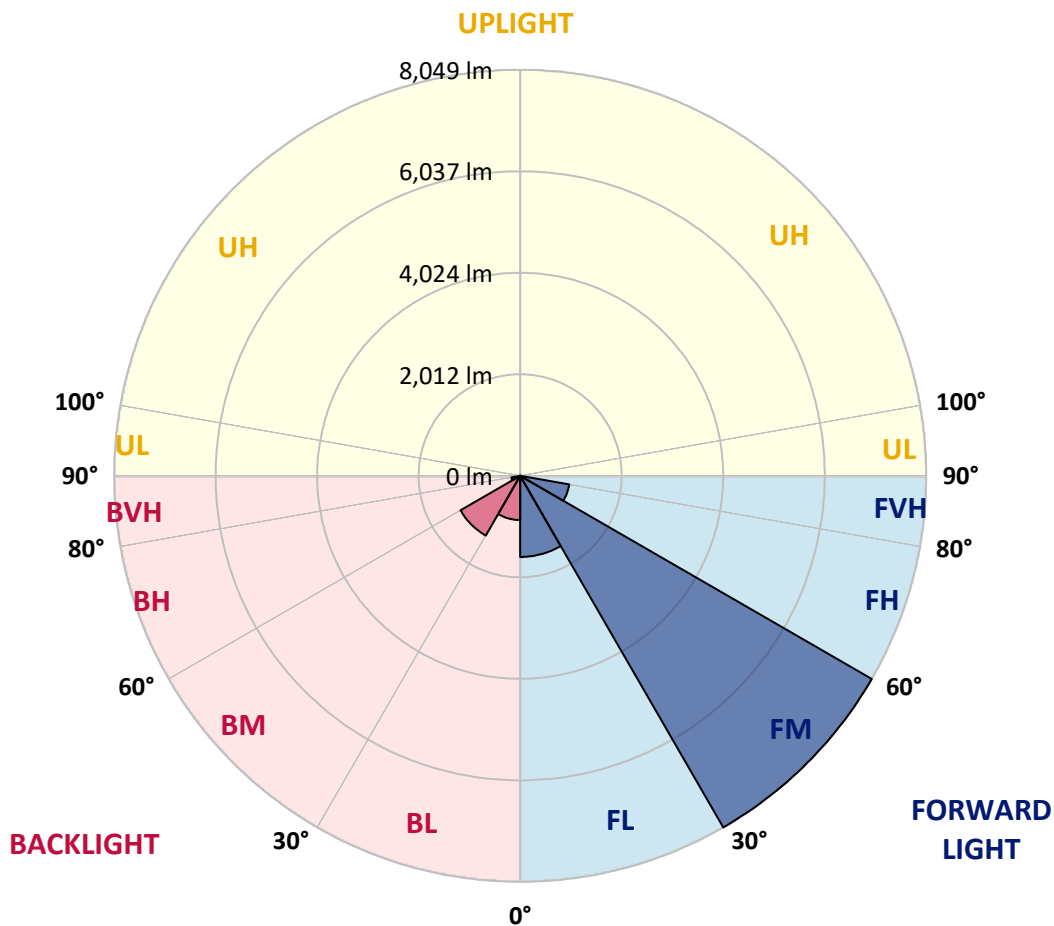
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.4	12.3			
FM (30°-60°)	8048.7	61.5			
FH (60°-80°)	988.2	7.6			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	876.8	6.7	B2/1000		
BM (30°-60°)	1367.0	10.4	B2/2500		
BH (60°-80°)	177.4	1.4	B1/500		G1/500
BVH (80°-90°)	9.0	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°	55°	65°	75°	78°	85°
0°	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9
2.5°	3162.7	3193.1	3197.8	3235.2	3232.9	3296.1	3314.8	3317.1	3359.2	3338.2	3392.0
5°	3073.8	3057.5	3050.4	3115.9	3134.7	3190.8	3237.6	3265.7	3352.2	3382.6	3438.8
7.5°	2994.3	2994.3	2999.0	3057.5	3050.4	3123.0	3172.1	3258.6	3385.0	3410.7	3478.5
10°	2917.1	2889.0	2924.1	2984.9	3036.4	3069.2	3172.1	3254.0	3401.3	3476.2	3569.8
12.5°	2877.3	2891.4	2896.0	2940.5	2996.6	3094.9	3151.0	3286.7	3518.3	3562.7	3663.3
15°	3127.6	3099.6	3031.7	2992.0	3038.7	3085.5	3225.9	3363.9	3579.1	3642.3	3754.6
17.5°	3417.7	3394.3	3338.2	3230.6	3125.3	3211.9	3321.8	3448.1	3644.6	3738.2	3904.3
20°	3796.7	3759.2	3703.1	3492.6	3401.3	3307.8	3424.7	3574.4	3752.2	3836.4	4007.2
22.5°	4248.2	4248.2	4121.8	3866.9	3677.4	3588.5	3637.6	3724.2	3871.5	3986.2	4154.6
25°	4718.4	4704.3	4589.7	4325.4	4004.9	3899.6	3955.7	4016.6	4056.3	4119.5	4231.8
27.5°	5256.4	5174.5	5029.5	4737.1	4454.0	4250.5	4311.3	4257.5	4208.4	4241.1	4402.6
30°	5621.3	5672.8	5488.0	5207.3	4940.6	4713.7	4725.4	4678.6	4454.0	4500.8	4596.7
32.5°	6000.3	6033.0	5930.1	5775.7	5509.0	5244.7	5148.8	5109.0	4940.6	4961.6	4868.1
35°	6316.1	6379.3	6288.0	6220.2	6143.0	5930.1	5665.8	5794.4	5523.1	5471.6	5228.3
37.5°	6606.2	6587.5	6695.1	6624.9	6608.5	6458.8	6168.7	6194.4	6012.0	6000.3	5719.6
40°	6865.8	6870.5	7017.9	7050.6	6985.1	6718.5	6297.4	6500.9	6648.3	6662.3	6302.1
42.5°	7081.0	7144.2	7270.5	7534.9	7436.6	6992.1	6430.7	6653.0	7200.3	7286.9	6854.1
45°	7268.2	7396.8	7553.6	7789.8	7733.7	7380.5	6762.9	6966.4	7789.8	8016.8	7373.5
47.5°	7279.9	7448.3	7619.1	7970.0	8040.2	7588.7	7106.8	7462.3	8257.7	8503.3	7752.4
50°	7233.1	7322.0	7663.5	8044.8	8203.9	7927.9	7588.7	7878.7	8711.5	8865.9	7944.2
52.5°	6678.7	6746.5	7431.9	8115.0	8498.7	8311.5	8227.3	8458.9	9174.7	9289.3	8124.4
55°	5567.5	5555.8	6498.6	7761.8	8634.3	8880.0	8828.5	8910.4	9710.4	9813.3	8168.8
57.5°	3808.4	4021.2	4835.3	6463.5	7803.9	8746.6	8800.4	8664.7	9085.8	9125.6	7120.8
60°	2053.9	2142.8	2797.8	4313.7	5941.8	7127.8	7268.2	7022.6	6989.8	6877.5	5083.3
62.5°	816.4	860.9	1232.8	2135.8	3237.6	4332.4	4634.1	4533.6	4318.3	4023.6	2631.7
65°	388.3	416.4	612.9	998.9	1436.3	1805.9	2107.7	2201.3	1623.5	1462.1	867.9
67.5°	264.3	285.4	446.8	570.8	512.3	535.7	697.1	648.0	381.3	325.2	240.9
70°	201.2	215.2	357.9	388.3	229.3	161.4	180.1	168.4	156.7	159.1	156.7
72.5°	142.7	154.4	262.0	229.3	100.6	74.9	95.9	114.6	114.6	114.6	112.3
75°	86.6	98.3	152.1	88.9	39.8	39.8	60.8	77.2	81.9	84.2	79.5
77.5°	44.4	56.1	51.5	25.7	25.7	30.4	44.4	53.8	58.5	58.5	56.1
80°	9.4	9.4	9.4	14.0	25.7	32.8	44.4	49.1	56.1	56.1	51.5
82.5°	0.0	2.3	7.0	14.0	23.4	30.4	42.1	49.1	56.1	58.5	53.8
85°	0.0	2.3	4.7	9.4	16.4	18.7	16.4	14.0	14.0	14.0	14.0
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9	3363.9
2.5°	3396.7	3403.7	3392.0	3389.6	3380.3	3408.4	3340.5	3324.1	3366.2	3326.5	3335.8
5°	3441.1	3457.5	3436.4	3401.3	3349.9	3270.3	3202.5	3113.6	3071.5	3041.1	3036.4
7.5°	3473.9	3485.5	3464.5	3352.2	3197.8	2996.6	2846.9	2737.0	2650.4	2624.7	2582.6
10°	3607.2	3609.5	3504.3	3256.3	2954.5	2690.2	2460.9	2292.5	2206.0	2152.2	2128.8
12.5°	3696.1	3691.4	3478.5	3066.8	2664.5	2313.6	2051.6	1848.0	1768.5	1742.8	1726.4
15°	3808.4	3782.6	3417.7	2872.7	2290.2	1911.2	1674.9	1534.6	1527.6	1511.2	1527.6
17.5°	3897.3	3824.7	3328.8	2519.4	1932.3	1574.3	1420.0	1429.3	1448.0	1464.4	1466.7
20°	4042.3	3892.6	3125.3	2210.6	1600.1	1349.8	1347.4	1389.5	1436.3	1455.0	1473.8
22.5°	4152.2	3920.7	2907.7	1880.8	1328.7	1258.5	1298.3	1361.5	1396.6	1415.3	1443.3
25°	4192.0	3843.5	2617.7	1551.0	1197.7	1216.4	1277.3	1319.4	1363.8	1384.9	1373.2
27.5°	4231.8	3803.7	2271.5	1277.3	1127.5	1188.4	1239.8	1281.9	1296.0	1324.0	1342.8
30°	4327.7	3665.7	1960.3	1104.1	1092.5	1169.6	1207.1	1221.1	1258.5	1274.9	1274.9
32.5°	4404.9	3611.9	1630.5	1022.3	1087.8	1179.0	1183.7	1183.7	1188.4	1176.7	1172.0
35°	4564.0	3427.1	1335.7	973.1	1085.4	1181.3	1193.0	1153.3	1045.7	1003.6	991.9
37.5°	4760.5	3307.8	1118.2	961.4	1101.8	1209.4	1228.1	1078.4	938.1	870.2	858.5
40°	4999.1	3223.5	975.5	956.8	1139.2	1274.9	1218.8	1019.9	837.5	739.2	734.5
42.5°	5277.4	3146.3	879.6	954.4	1186.0	1342.8	1209.4	970.8	734.5	669.0	678.4
45°	5499.7	3104.2	814.1	938.1	1202.4	1382.5	1216.4	884.3	692.4	650.3	655.0
47.5°	5672.8	3015.3	760.3	910.0	1200.1	1396.6	1153.3	849.2	671.4	683.1	694.8
50°	5677.5	2896.0	692.4	849.2	1165.0	1370.8	1080.8	816.4	666.7	715.8	739.2
52.5°	5614.3	2727.6	619.9	762.6	1083.1	1281.9	1015.3	802.4	645.6	641.0	669.0
55°	5389.7	2411.8	498.3	617.6	914.7	1057.4	956.8	776.6	582.5	528.7	533.4
57.5°	4355.8	1728.7	367.3	442.1	648.0	774.3	863.2	764.9	524.0	449.1	451.5
60°	2697.2	980.2	269.0	301.8	400.0	470.2	699.4	711.1	467.9	379.0	374.3
62.5°	1384.9	484.2	208.2	212.9	245.6	276.0	479.6	596.5	423.4	360.3	360.3
65°	463.2	238.6	182.5	163.8	163.8	170.8	290.1	414.1	357.9	301.8	301.8
67.5°	198.8	177.8	159.1	142.7	131.0	124.0	163.8	240.9	266.7	229.3	219.9
70°	154.4	149.7	138.0	119.3	102.9	93.6	95.9	124.0	152.1	147.4	142.7
72.5°	114.6	114.6	109.9	93.6	79.5	67.8	63.2	65.5	72.5	74.9	77.2
75°	79.5	81.9	81.9	72.5	58.5	49.1	42.1	35.1	28.1	23.4	21.1
77.5°	53.8	56.1	60.8	53.8	44.4	32.8	25.7	18.7	11.7	4.7	4.7
80°	46.8	53.8	58.5	53.8	46.8	35.1	25.7	14.0	7.0	0.0	0.0
82.5°	49.1	53.8	60.8	51.5	44.4	32.8	25.7	16.4	7.0	2.3	0.0
85°	11.7	11.7	14.0	16.4	21.1	23.4	18.7	11.7	7.0	2.3	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	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)