

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: P528661

Luminaire Tested: **GALN-SA3D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528661  
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-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 12791 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

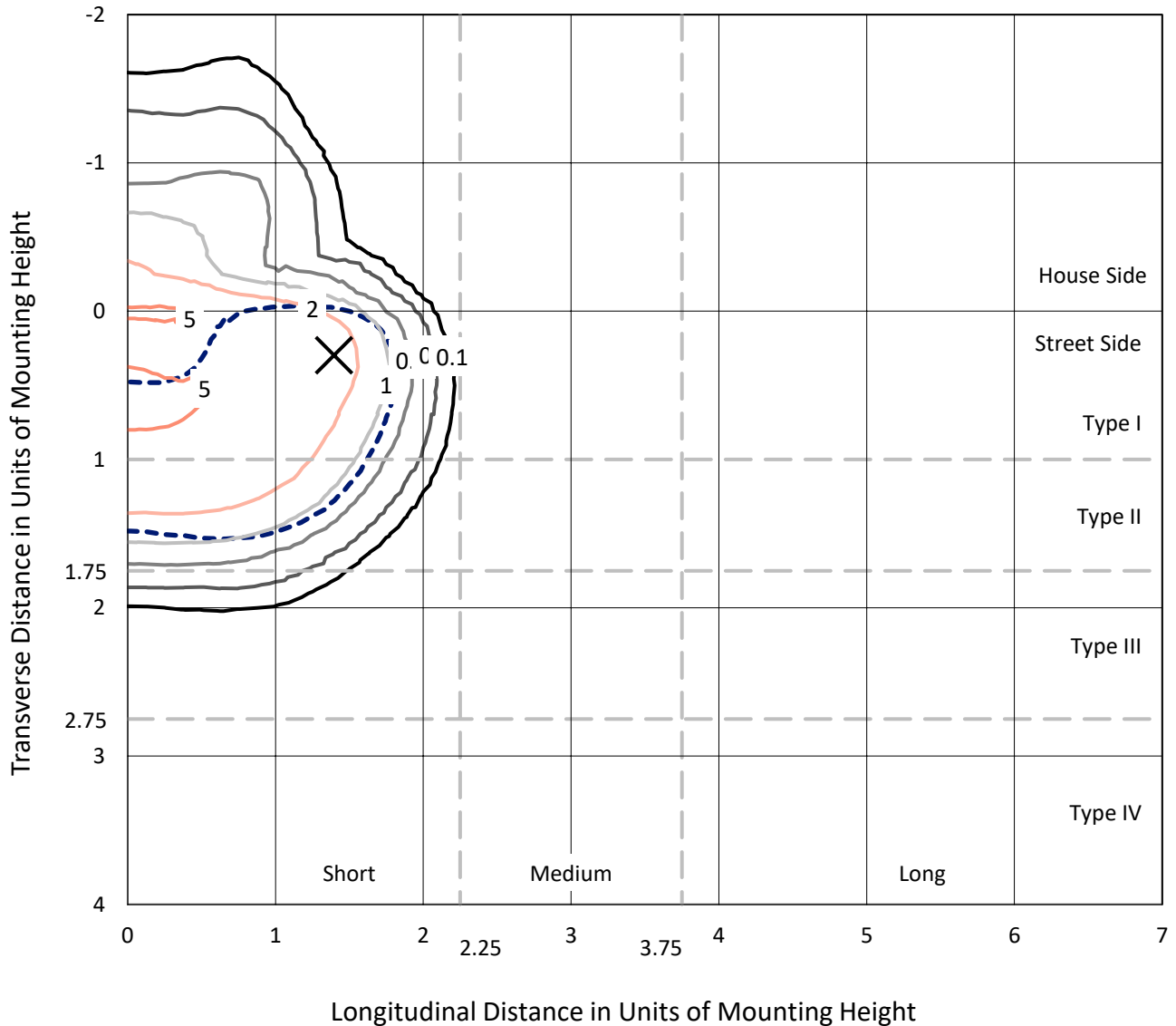
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

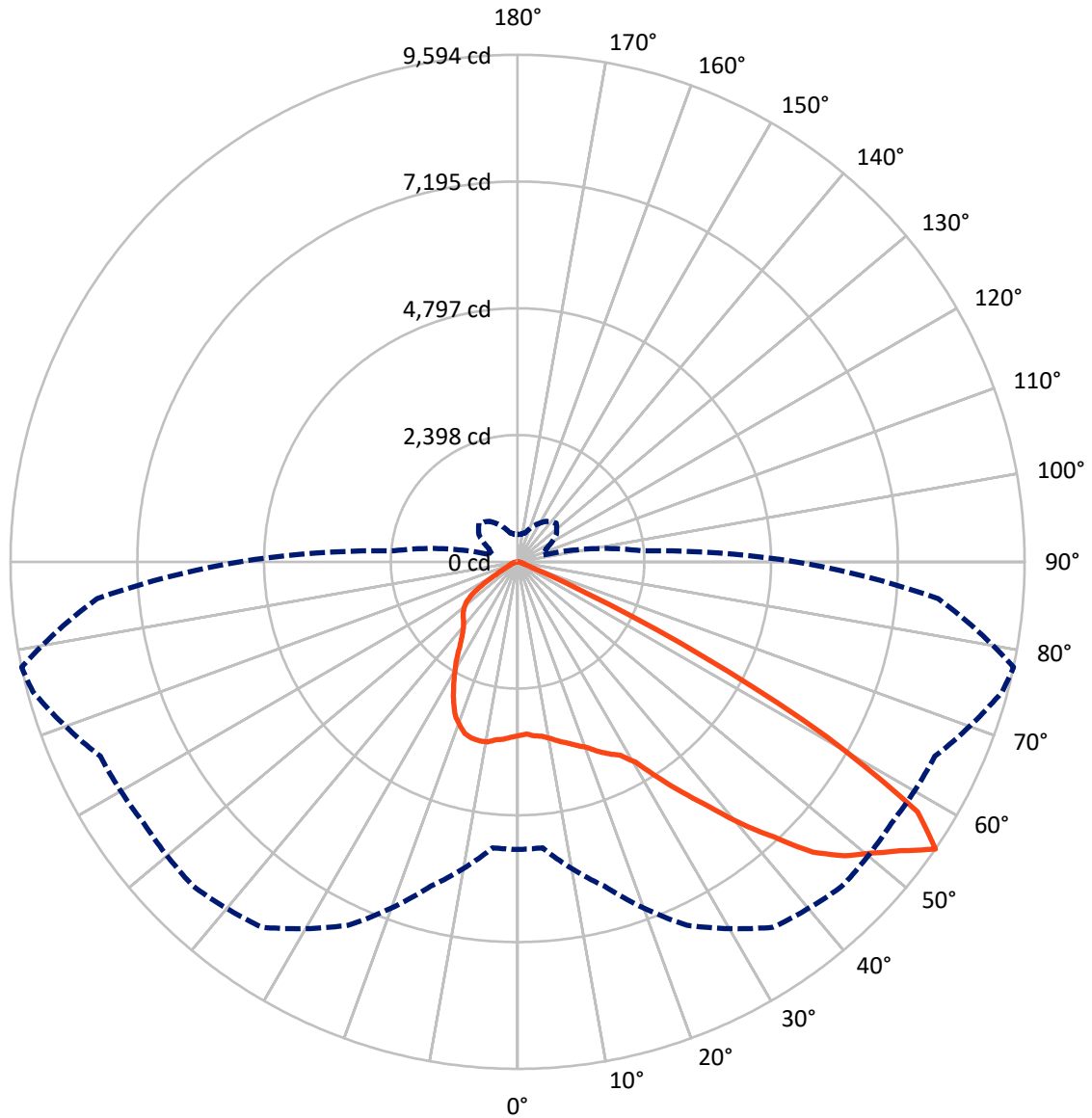
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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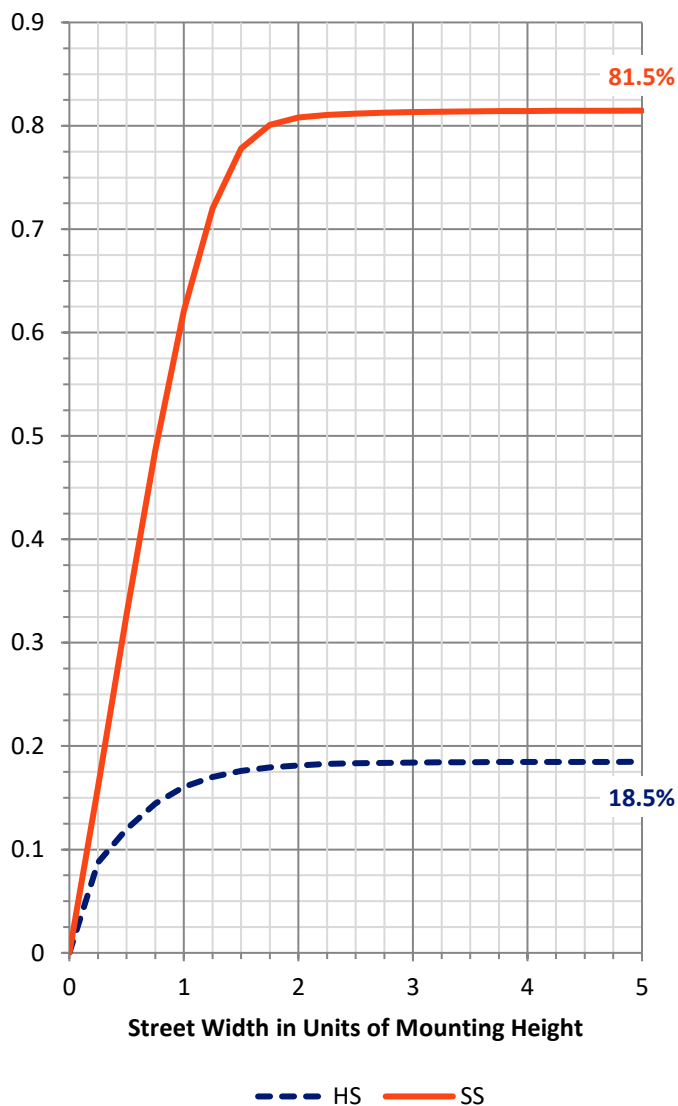
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2375.8	0.0	2375.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	10415.2	0.0	10415.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	12791.0	0.0	12791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.2	2.3
10°-20°	776.1	6.1
20°-30°	1360.3	10.6
30°-40°	2242.9	17.5
40°-50°	3263.8	25.5
50°-60°	3698.2	28.9
60°-70°	1057.4	8.3
70°-80°	82.1	0.6
80°-90°	17.1	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°	12791.0	100.0
0°-180°	12791.0	100.0

**Coefficient of Utilization**

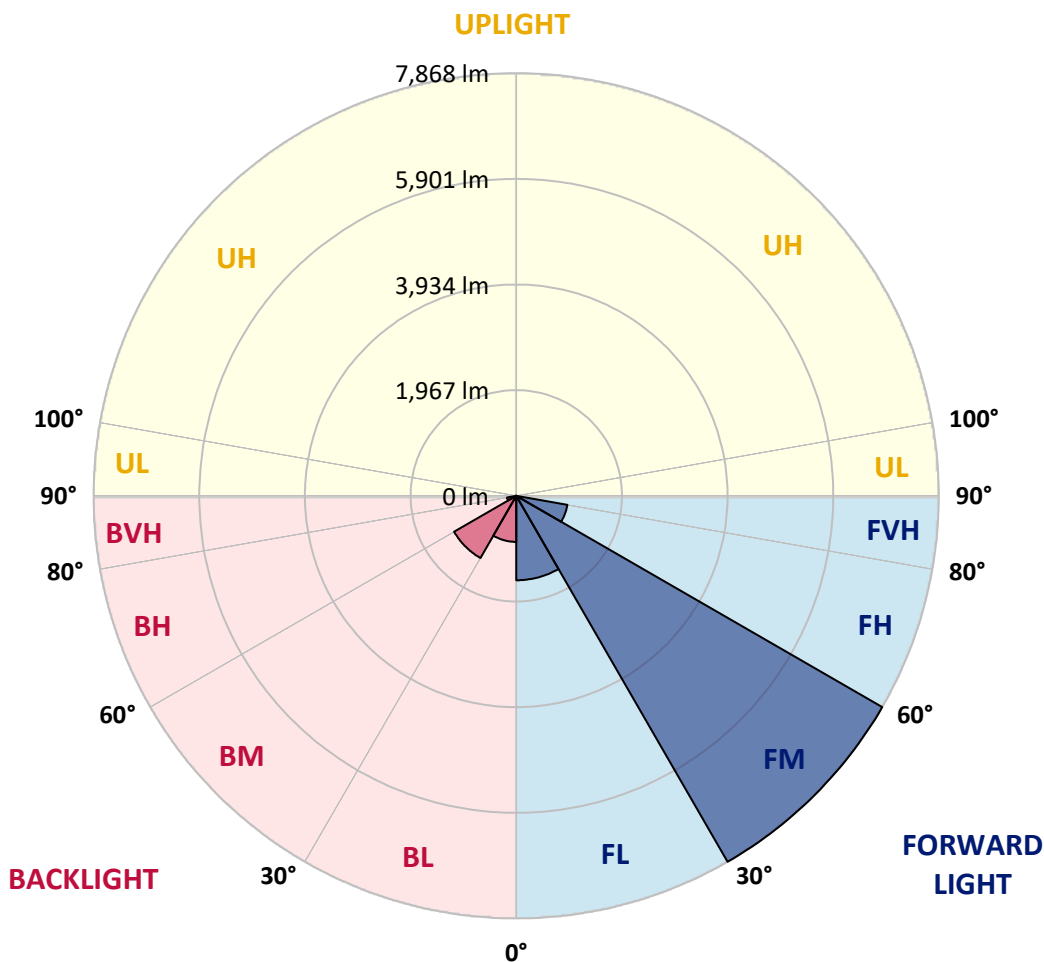


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.4	12.3			
FM (30°-60°)	7868.4	61.5			
FH (60°-80°)	966.1	7.6			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	857.2	6.7	B2/1000		
BM (30°-60°)	1336.4	10.4	B2/2500		
BH (60°-80°)	173.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.8	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°	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6
2.5°	3091.9	3121.6	3126.2	3162.8	3160.5	3222.3	3240.5	3242.8	3284.0	3263.4	3316.0
5°	3005.0	2989.0	2982.1	3046.2	3064.5	3119.3	3165.1	3192.5	3277.1	3306.9	3361.8
7.5°	2927.2	2927.2	2931.8	2989.0	2982.1	3053.0	3101.0	3185.7	3309.2	3334.3	3400.6
10°	2851.8	2824.3	2858.6	2918.1	2968.4	3000.4	3101.0	3181.1	3325.2	3398.3	3489.8
12.5°	2812.9	2826.6	2831.2	2874.6	2929.5	3025.6	3080.5	3213.1	3439.5	3483.0	3581.3
15°	3057.6	3030.2	2963.8	2925.0	2970.7	3016.4	3153.6	3288.6	3499.0	3560.7	3670.5
17.5°	3341.2	3318.3	3263.4	3158.2	3055.3	3139.9	3247.4	3370.9	3563.0	3654.5	3816.8
20°	3711.7	3675.1	3620.2	3414.4	3325.2	3233.7	3348.0	3494.4	3668.2	3750.5	3917.5
22.5°	4153.0	4153.0	4029.5	3780.3	3595.0	3508.1	3556.1	3640.8	3784.8	3896.9	4061.5
25°	4612.7	4599.0	4486.9	4228.5	3915.2	3812.3	3867.2	3926.6	3965.5	4027.2	4137.0
27.5°	5138.7	5058.6	4916.9	4631.0	4354.3	4155.3	4214.8	4162.2	4114.1	4146.2	4304.0
30°	5495.4	5545.8	5365.1	5090.7	4829.9	4608.1	4619.6	4573.8	4354.3	4400.0	4493.8
32.5°	5865.9	5897.9	5797.3	5646.4	5385.7	5127.2	5033.5	4994.6	4829.9	4850.5	4759.1
35°	6174.7	6236.4	6147.2	6080.9	6005.4	5797.3	5538.9	5664.7	5399.4	5349.1	5111.2
37.5°	6458.2	6439.9	6545.1	6476.5	6460.5	6314.2	6030.6	6055.7	5877.4	5865.9	5591.5
40°	6712.1	6716.6	6860.7	6892.7	6828.7	6568.0	6156.4	6355.3	6499.4	6513.1	6160.9
42.5°	6922.5	6984.2	7107.7	7366.1	7270.1	6835.6	6286.7	6504.0	7039.1	7123.7	6700.6
45°	7105.4	7231.2	7384.4	7615.4	7560.5	7215.2	6611.5	6810.4	7615.4	7837.2	7208.3
47.5°	7116.9	7281.5	7448.5	7791.5	7860.1	7418.7	6947.6	7295.2	8072.8	8312.9	7578.8
50°	7071.1	7158.0	7491.9	7864.7	8020.2	7750.3	7418.7	7702.3	8516.4	8667.4	7766.3
52.5°	6529.1	6595.4	7265.5	7933.3	8308.3	8125.4	8043.1	8269.5	8969.3	9081.3	7942.4
55°	5442.8	5431.4	6353.0	7588.0	8441.0	8681.1	8630.8	8710.8	9493.0	9593.6	7985.9
57.5°	3723.1	3931.2	4727.0	6318.7	7629.1	8550.7	8603.3	8470.7	8882.4	8921.2	6961.3
60°	2007.9	2094.8	2735.1	4217.1	5808.7	6968.2	7105.4	6865.3	6833.3	6723.5	4969.5
62.5°	798.1	841.6	1205.2	2087.9	3165.1	4235.4	4530.4	4432.0	4221.6	3933.5	2572.8
65°	379.6	407.1	599.2	976.5	1404.2	1765.5	2060.5	2152.0	1587.1	1429.3	848.4
67.5°	258.4	279.0	436.8	558.0	500.8	523.7	681.5	633.5	372.8	317.9	235.6
70°	196.7	210.4	349.9	379.6	224.1	157.8	176.1	164.7	153.2	155.5	153.2
72.5°	139.5	150.9	256.1	224.1	98.3	73.2	93.8	112.1	112.1	112.1	109.8
75°	84.6	96.1	148.6	86.9	38.9	38.9	59.5	75.5	80.0	82.3	77.8
77.5°	43.5	54.9	50.3	25.2	25.2	29.7	43.5	52.6	57.2	57.2	54.9
80°	9.1	9.1	9.1	13.7	25.2	32.0	43.5	48.0	54.9	54.9	50.3
82.5°	0.0	2.3	6.9	13.7	22.9	29.7	41.2	48.0	54.9	57.2	52.6
85°	0.0	2.3	4.6	9.1	16.0	18.3	16.0	13.7	13.7	13.7	13.7
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6
2.5°	3320.6	3327.5	3316.0	3313.7	3304.6	3332.0	3265.7	3249.7	3290.9	3252.0	3261.1
5°	3364.0	3380.0	3359.5	3325.2	3274.9	3197.1	3130.8	3043.9	3002.7	2973.0	2968.4
7.5°	3396.1	3407.5	3386.9	3277.1	3126.2	2929.5	2783.2	2675.7	2591.1	2565.9	2524.7
10°	3526.4	3528.7	3425.8	3183.4	2888.4	2629.9	2405.8	2241.2	2156.6	2104.0	2081.1
12.5°	3613.3	3608.7	3400.6	2998.1	2604.8	2261.8	2005.6	1806.7	1728.9	1703.7	1687.7
15°	3723.1	3697.9	3341.2	2808.3	2238.9	1868.4	1637.4	1500.2	1493.4	1477.3	1493.4
17.5°	3810.0	3739.1	3254.3	2463.0	1889.0	1539.1	1388.2	1397.3	1415.6	1431.6	1433.9
20°	3951.8	3805.4	3055.3	2161.1	1564.2	1319.5	1317.3	1358.4	1404.2	1422.5	1440.8
22.5°	4059.3	3832.9	2842.6	1838.7	1299.0	1230.4	1269.2	1331.0	1365.3	1383.6	1411.0
25°	4098.1	3757.4	2559.0	1516.2	1170.9	1189.2	1248.7	1289.8	1333.3	1353.8	1342.4
27.5°	4137.0	3718.5	2220.6	1248.7	1102.3	1161.7	1212.1	1253.2	1266.9	1294.4	1312.7
30°	4230.8	3583.6	1916.4	1079.4	1068.0	1143.5	1180.0	1193.8	1230.4	1246.4	1246.4
32.5°	4306.2	3531.0	1594.0	999.4	1063.4	1152.6	1157.2	1157.2	1161.7	1150.3	1145.7
35°	4461.8	3350.3	1305.8	951.4	1061.1	1154.9	1166.3	1127.4	1022.2	981.1	969.6
37.5°	4653.9	3233.7	1093.1	939.9	1077.1	1182.3	1200.6	1054.3	917.1	850.7	839.3
40°	4887.1	3151.4	953.6	935.3	1113.7	1246.4	1191.5	997.1	818.7	722.7	718.1
42.5°	5159.3	3075.9	859.9	933.1	1159.5	1312.7	1182.3	949.1	718.1	654.1	663.2
45°	5376.5	3034.7	795.8	917.1	1175.5	1351.6	1189.2	864.5	676.9	635.8	640.3
47.5°	5545.8	2947.8	743.2	889.6	1173.2	1365.3	1127.4	830.1	656.3	667.8	679.2
50°	5550.3	2831.2	676.9	830.1	1138.9	1340.1	1056.6	798.1	651.8	699.8	722.7
52.5°	5488.6	2666.5	606.0	745.5	1058.8	1253.2	992.5	784.4	631.2	626.6	654.1
55°	5269.0	2357.8	487.1	603.7	894.2	1033.7	935.3	759.3	569.4	516.8	521.4
57.5°	4258.2	1690.0	359.0	432.2	633.5	757.0	843.9	747.8	512.3	439.1	441.4
60°	2636.8	958.2	263.0	295.0	391.1	459.7	683.8	695.2	457.4	370.5	365.9
62.5°	1353.8	473.4	203.5	208.1	240.1	269.9	468.8	583.2	413.9	352.2	352.2
65°	452.8	233.3	178.4	160.1	160.1	166.9	283.6	404.8	349.9	295.0	295.0
67.5°	194.4	173.8	155.5	139.5	128.1	121.2	160.1	235.6	260.7	224.1	215.0
70°	150.9	146.4	134.9	116.6	100.6	91.5	93.8	121.2	148.6	144.1	139.5
72.5°	112.1	112.1	107.5	91.5	77.8	66.3	61.7	64.0	70.9	73.2	75.5
75°	77.8	80.0	80.0	70.9	57.2	48.0	41.2	34.3	27.4	22.9	20.6
77.5°	52.6	54.9	59.5	52.6	43.5	32.0	25.2	18.3	11.4	4.6	4.6
80°	45.7	52.6	57.2	52.6	45.7	34.3	25.2	13.7	6.9	0.0	0.0
82.5°	48.0	52.6	59.5	50.3	43.5	32.0	25.2	16.0	6.9	2.3	0.0
85°	11.4	11.4	13.7	16.0	20.6	22.9	18.3	11.4	6.9	2.3	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	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)