

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: P458988

Luminaire Tested: **GALN-SA5A-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20882 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

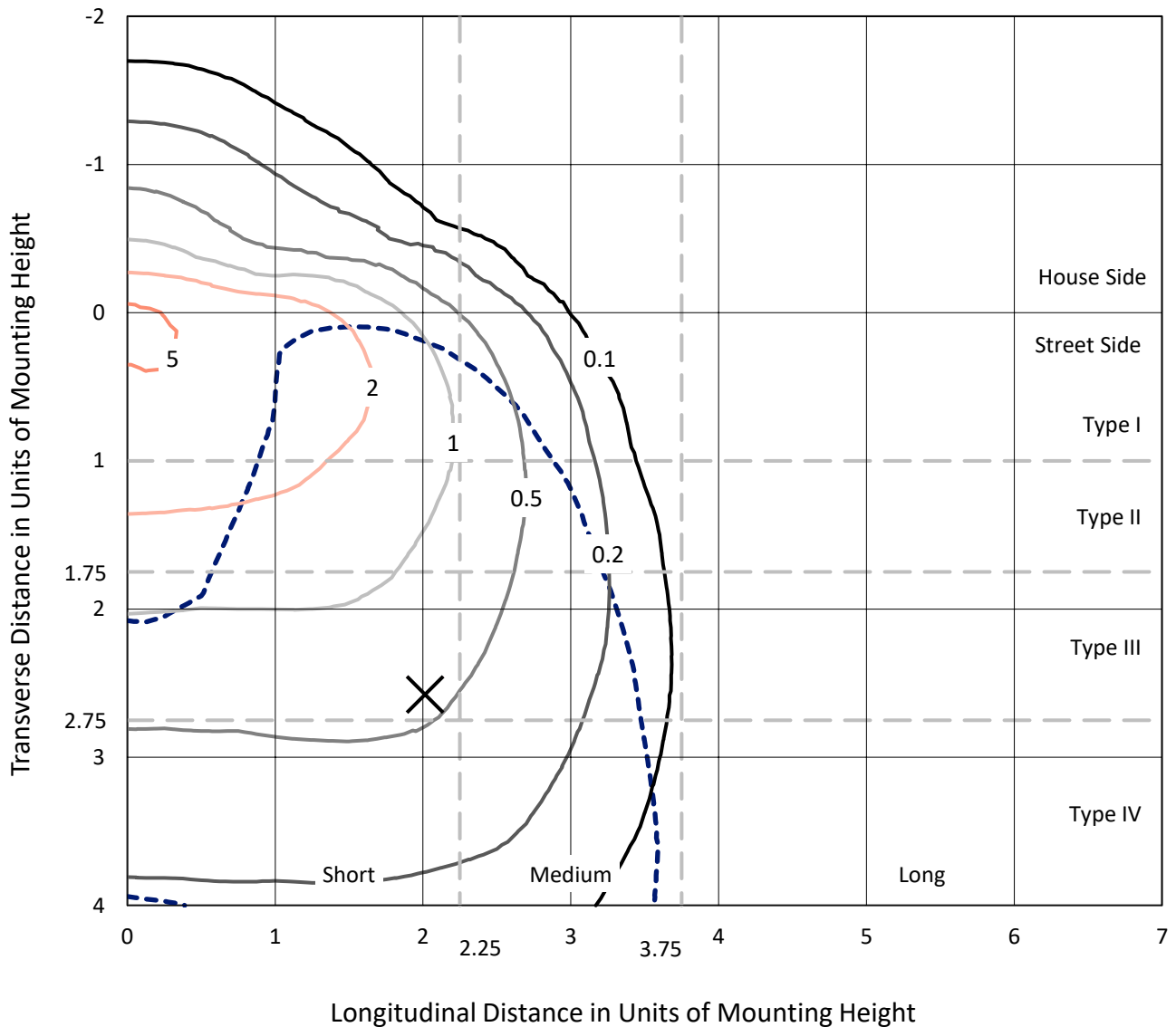
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

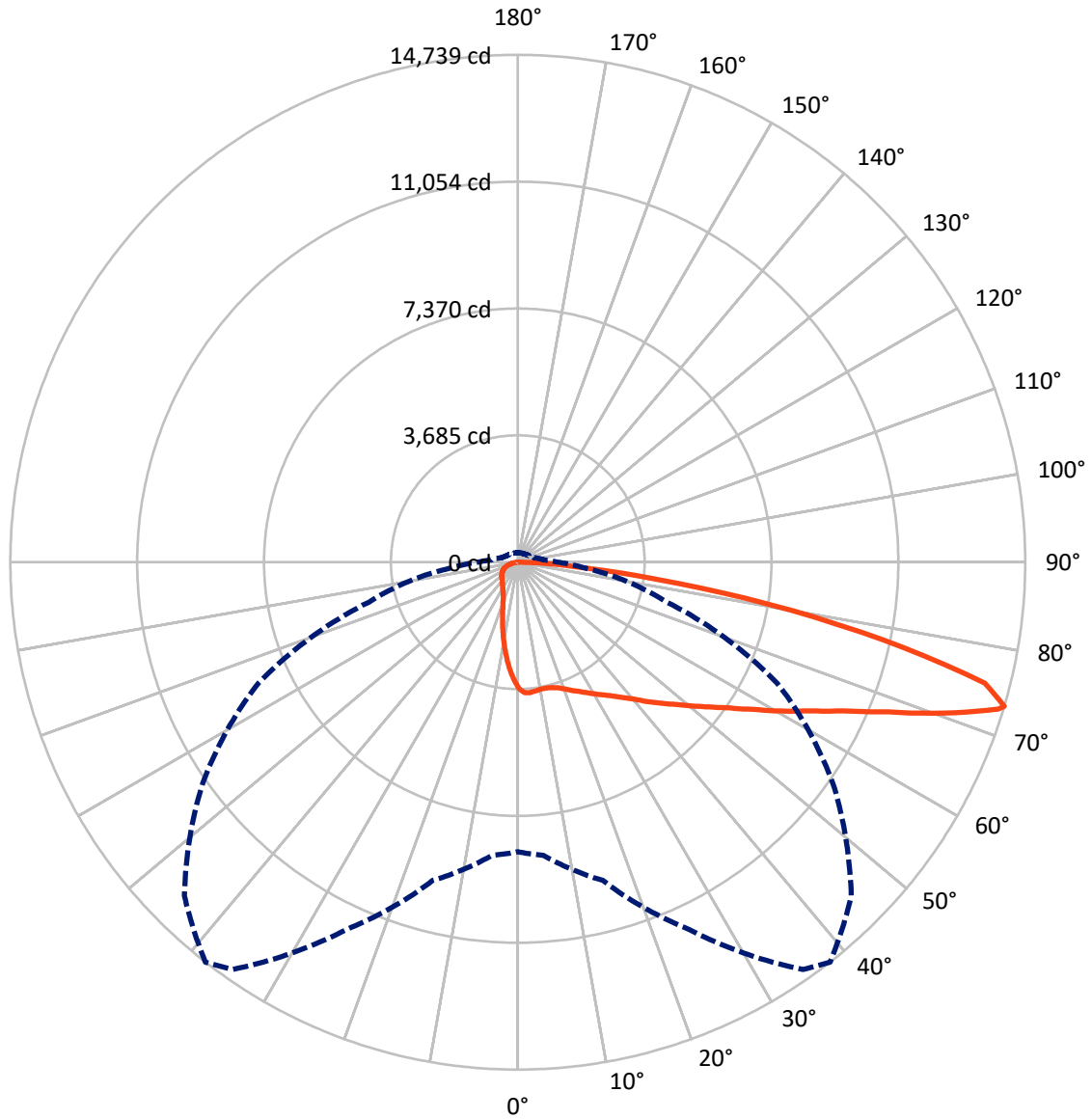
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2807.2	0.0	2807.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	18074.8	0.0	18074.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	20882.0	0.0	20882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.2	1.5
10°-20°	821.2	3.9
20°-30°	1278.7	6.1
30°-40°	1875.6	9.0
40°-50°	2782.2	13.3
50°-60°	3941.9	18.9
60°-70°	5000.4	23.9
70°-80°	4162.4	19.9
80°-90°	699.4	3.3
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°	20882.0	100.0
0°-180°	20882.0	100.0

**Coefficient of Utilization**



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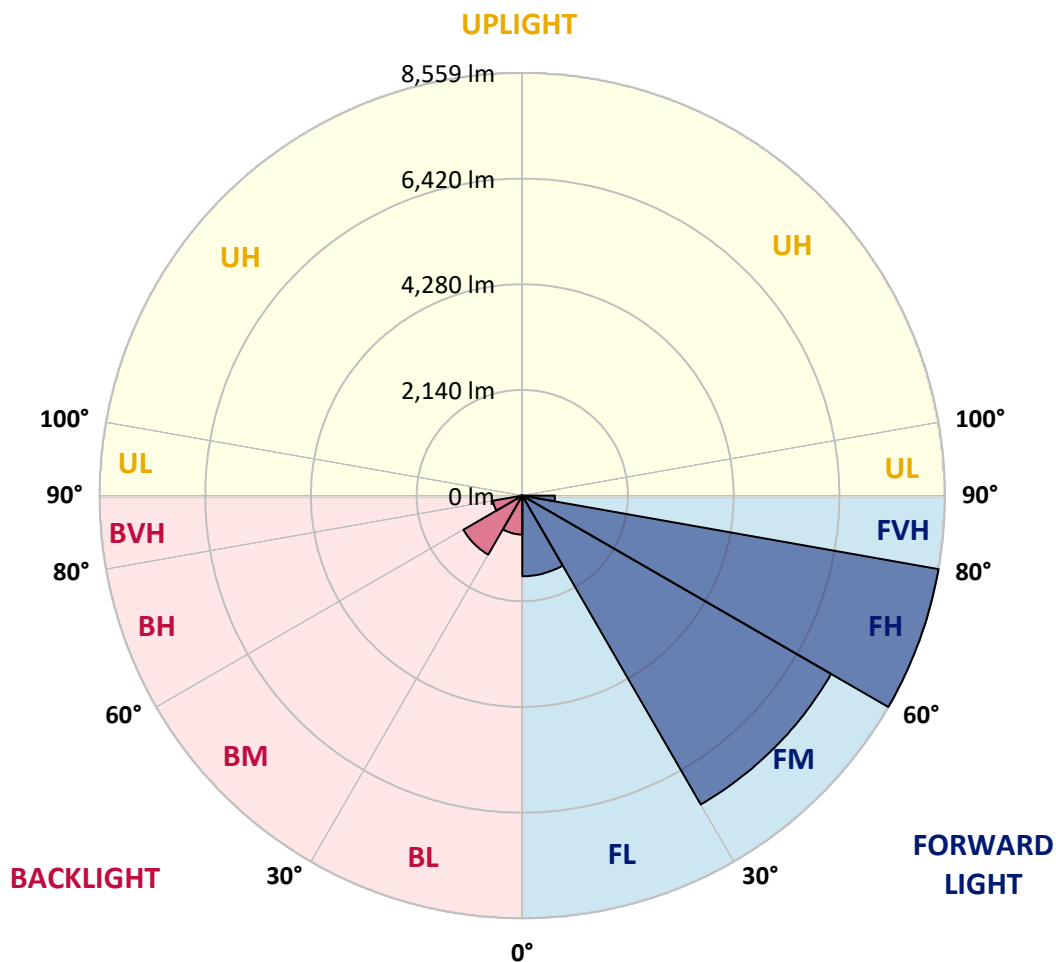
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1632.4	7.8			
FM	(30°-60°)	7221.6	34.6			
FH	(60°-80°)	8559.4	41.0			G4/12000
FVH	(80°-90°)	661.4	3.2			G4/750
BL	(0°-30°)	787.7	3.8	B2/1000		
BM	(30°-60°)	1378.2	6.6	B2/2500		
BH	(60°-80°)	603.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	37.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6
2.5°	3816.0	3834.9	3825.5	3812.5	3804.2	3796.0	3784.2	3750.0	3722.9	3693.4	3647.4
5°	3844.3	3856.1	3847.9	3831.3	3812.5	3804.2	3781.8	3737.0	3693.4	3643.8	3575.5
7.5°	3827.8	3832.5	3823.1	3803.0	3786.5	3771.2	3745.3	3695.7	3642.7	3582.5	3492.9
10°	3768.8	3786.5	3786.5	3770.0	3753.5	3745.3	3719.3	3672.2	3623.8	3555.4	3449.3
12.5°	3720.5	3739.4	3754.7	3750.0	3748.8	3748.8	3728.8	3693.4	3636.8	3571.9	3445.7
15°	3687.5	3709.9	3742.9	3761.8	3773.6	3777.1	3768.8	3738.2	3680.4	3604.9	3459.9
17.5°	3680.4	3707.5	3767.7	3808.9	3839.6	3838.4	3836.1	3793.6	3729.9	3652.1	3477.6
20°	3712.2	3747.6	3831.3	3896.2	3941.0	3932.8	3919.8	3864.4	3790.1	3702.8	3494.1
22.5°	3807.8	3844.3	3936.3	4007.1	4050.7	4050.7	4011.8	3938.7	3859.7	3761.8	3516.5
25°	3944.6	3984.6	4082.5	4154.5	4174.5	4159.2	4120.3	4031.8	3941.0	3846.7	3563.7
27.5°	4112.0	4160.4	4251.2	4311.3	4305.4	4293.6	4253.5	4140.3	4049.5	3963.4	3643.8
30°	4320.7	4356.1	4450.4	4464.6	4443.4	4441.0	4384.4	4271.2	4186.3	4120.3	3758.2
32.5°	4517.7	4549.5	4625.0	4630.9	4593.1	4597.9	4544.8	4441.0	4392.7	4369.1	3950.5
35°	4726.4	4742.9	4807.8	4800.7	4775.9	4772.4	4751.2	4652.1	4667.4	4709.9	4222.9
37.5°	4900.9	4933.9	4970.5	4976.4	4975.2	4987.0	5001.2	4954.0	5042.4	5175.7	4580.2
40°	5061.3	5089.6	5143.8	5162.7	5208.7	5232.3	5280.6	5281.8	5485.8	5705.2	5020.0
42.5°	5169.8	5218.1	5319.5	5353.7	5465.8	5536.5	5608.5	5685.1	5981.1	6262.9	5538.9
45°	5264.1	5327.8	5496.4	5602.6	5754.7	5840.8	5992.9	6153.3	6579.0	6948.1	6066.0
47.5°	5406.8	5463.4	5656.8	5844.3	6074.3	6173.3	6400.9	6640.3	7196.9	7601.4	6570.7
50°	5604.9	5639.1	5836.1	6141.5	6435.1	6562.5	6863.2	7208.7	7857.3	8246.4	7014.1
52.5°	5858.5	5872.6	6029.5	6436.3	6823.1	6981.1	7379.7	7783.0	8435.1	8806.6	7365.5
55°	6158.0	6134.4	6257.0	6748.8	7266.5	7472.8	7900.9	8364.3	9084.9	9259.4	7621.4
57.5°	6454.0	6417.4	6515.3	7128.5	7813.6	8062.5	8561.3	8963.4	9665.0	9682.7	7800.7
60°	6767.7	6740.5	6857.3	7574.3	8484.6	8779.4	9240.5	9584.9	10226.4	9977.5	7829.0
62.5°	7089.6	7046.0	7212.2	8075.4	9240.5	9508.2	9955.1	10245.2	10777.1	10087.2	7556.6
65°	7402.1	7382.0	7639.1	8670.9	10101.4	10405.6	10839.6	11036.5	11218.1	9922.1	6880.9
67.5°	7734.6	7774.7	8185.1	9465.8	11224.0	11606.1	12074.2	11889.1	11344.3	9140.3	5794.8
70°	8241.7	8267.6	8902.1	10507.0	12670.9	13132.0	13358.4	12192.2	10735.8	7655.6	4356.1
72.5°	8459.9	8574.2	9542.4	11600.2	14314.8	14596.6	13790.0	11516.5	8943.4	5200.4	2288.9
73°	8411.5	8548.3	9571.9	11766.4	14443.3	14739.3	13698.0	11168.6	8313.6	4478.8	1962.3
75°	7808.9	7977.6	9188.6	11627.3	14193.3	14016.4	12219.3	9518.8	5617.9	2036.5	893.9
77.5°	6161.5	6209.9	7280.6	9389.1	11176.8	10849.0	9145.0	5949.3	2294.8	757.1	507.1
80°	3090.8	3268.9	4103.8	5378.5	7474.0	7366.7	5772.4	2813.7	956.4	444.6	336.1
82.5°	1487.0	1613.2	1998.8	2622.6	4129.7	4031.8	2858.5	1537.7	607.3	259.4	198.1
85°	957.5	1051.9	1272.4	1251.2	1698.1	1621.5	1284.2	1163.9	359.7	135.6	138.0
87.5°	632.1	692.2	830.2	663.9	617.9	559.0	567.2	655.7	70.8	51.9	18.9
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°	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6
2.5°	3628.5	3613.2	3562.5	3513.0	3465.8	3421.0	3391.5	3352.6	3326.6	3333.7	3344.3
5°	3537.7	3503.5	3413.9	3326.6	3244.1	3146.2	3067.2	3003.5	2955.2	2937.5	2933.9
7.5°	3442.2	3384.4	3255.9	3106.1	2965.8	2844.3	2704.0	2634.4	2553.1	2524.8	2515.3
10°	3384.4	3306.6	3126.2	2917.4	2706.4	2504.7	2352.6	2228.8	2116.7	2095.5	2084.9
12.5°	3367.9	3265.3	3022.4	2753.5	2472.9	2225.2	2000.0	1837.3	1728.8	1704.0	1667.4
15°	3358.5	3231.1	2925.7	2588.4	2232.3	1930.4	1693.4	1503.5	1404.5	1338.4	1339.6
17.5°	3350.2	3192.2	2817.2	2408.0	2024.8	1676.9	1415.1	1244.1	1153.3	1117.9	1114.4
20°	3338.4	3146.2	2692.2	2218.1	1787.7	1445.7	1208.7	1081.4	1020.0	990.6	989.4
22.5°	3333.7	3101.4	2569.6	2024.8	1577.8	1267.7	1071.9	982.3	943.4	923.3	923.3
25°	3345.5	3069.6	2441.0	1840.8	1391.5	1115.6	977.6	916.3	893.9	883.3	879.7
27.5°	3382.1	3055.4	2313.7	1656.8	1220.5	1011.8	913.9	871.5	854.9	846.7	847.9
30°	3451.6	3054.2	2188.7	1475.2	1093.2	932.8	863.2	833.7	820.8	816.0	814.9
32.5°	3563.7	3080.2	2066.0	1325.5	985.8	866.7	816.0	794.8	788.9	785.4	784.2
35°	3753.5	3153.3	1944.6	1188.7	903.3	807.8	771.2	760.6	752.4	755.9	757.1
37.5°	4009.4	3279.5	1829.0	1081.4	840.8	764.1	733.5	724.1	719.3	722.9	726.4
40°	4352.6	3461.1	1732.3	995.3	796.0	727.6	700.5	692.2	687.5	693.4	694.6
42.5°	4731.1	3671.0	1652.1	928.1	759.4	696.9	671.0	661.6	658.0	661.6	662.7
45°	5120.3	3915.1	1610.8	879.7	728.8	674.5	647.4	636.8	628.5	626.2	629.7
47.5°	5503.5	4127.3	1609.7	850.2	704.0	654.5	625.0	613.2	602.6	596.7	595.5
50°	5816.0	4296.0	1638.0	837.3	682.8	632.1	602.6	590.8	576.6	564.9	567.2
52.5°	6051.9	4405.6	1650.9	831.4	671.0	608.5	579.0	568.4	551.9	536.6	536.6
55°	6204.0	4431.6	1619.1	825.5	661.6	583.7	551.9	542.5	525.9	510.6	510.6
57.5°	6255.9	4351.4	1504.7	811.3	652.1	562.5	524.8	516.5	503.5	488.2	485.8
60°	6135.6	4080.2	1304.2	768.9	633.3	540.1	495.3	491.7	487.0	474.1	472.9
62.5°	5672.1	3504.7	1086.1	713.4	601.4	516.5	468.2	474.1	477.6	470.5	469.3
65°	4900.9	2845.5	928.1	636.8	559.0	483.5	438.7	454.0	463.4	463.4	461.1
67.5°	3975.2	2185.1	781.8	570.8	505.9	438.7	405.7	417.5	424.5	422.2	428.1
70°	2825.5	1479.9	636.8	495.3	438.7	388.0	363.2	363.2	358.5	356.1	356.1
72.5°	1370.3	845.5	516.5	413.9	373.8	331.4	311.3	303.1	293.6	292.5	286.6
73°	1145.0	758.3	492.9	398.6	358.5	323.1	300.7	287.7	281.8	277.1	275.9
75°	696.9	575.5	411.6	336.1	305.4	278.3	258.3	246.5	240.6	237.0	235.8
77.5°	458.7	429.2	319.6	257.1	233.5	217.0	208.7	196.9	193.4	188.7	188.7
80°	342.0	327.8	228.8	181.6	167.5	153.3	150.9	148.6	139.2	133.3	130.9
82.5°	220.5	233.5	155.7	121.5	106.1	94.3	95.5	99.1	89.6	81.4	79.0
85°	156.8	168.6	94.3	55.4	44.8	38.9	43.6	38.9	40.1	31.8	25.9
87.5°	25.9	44.8	16.5	7.1	3.5	2.4	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)