

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: P528920

Luminaire Tested: **GALN-SA4A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14368 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

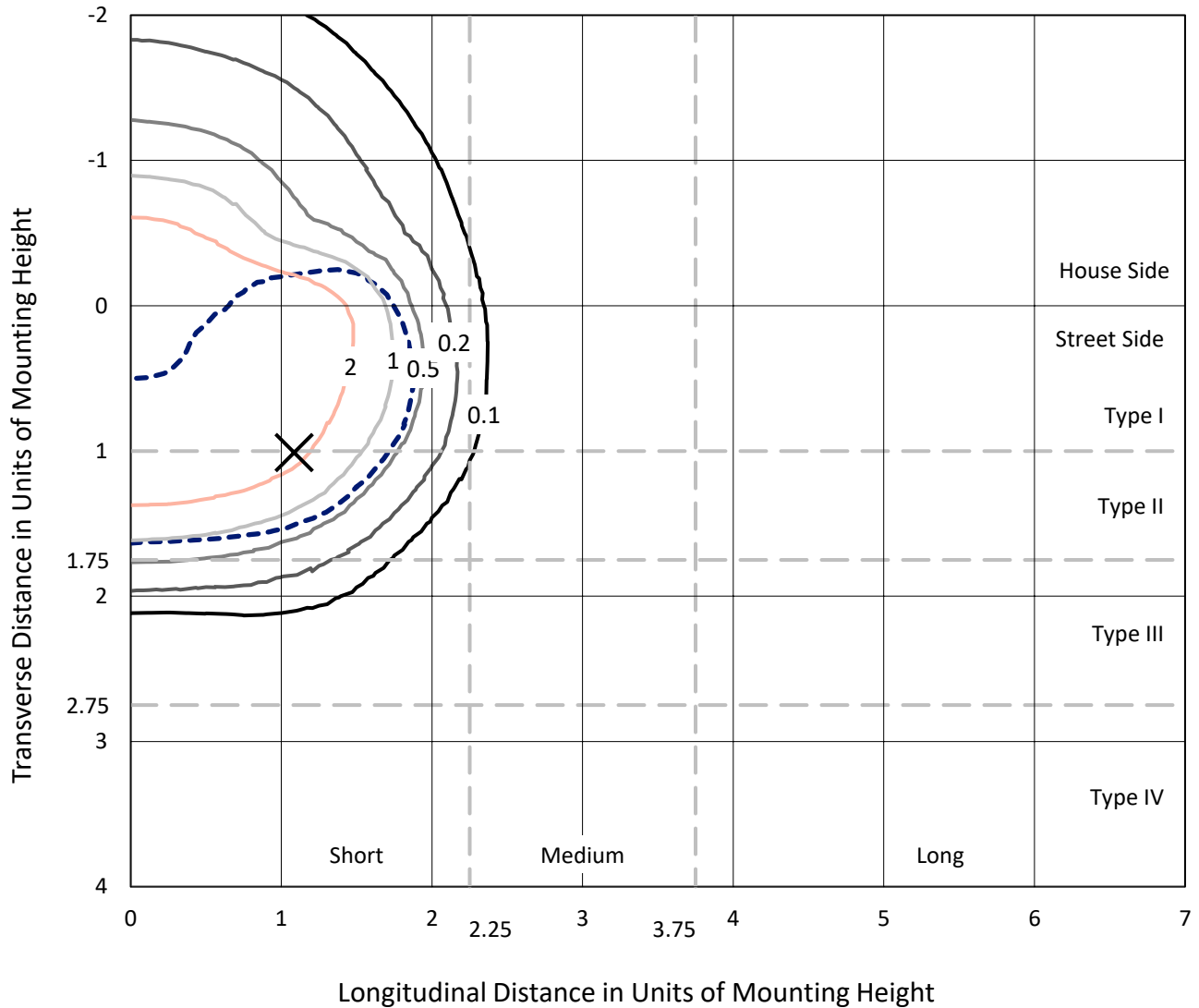
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

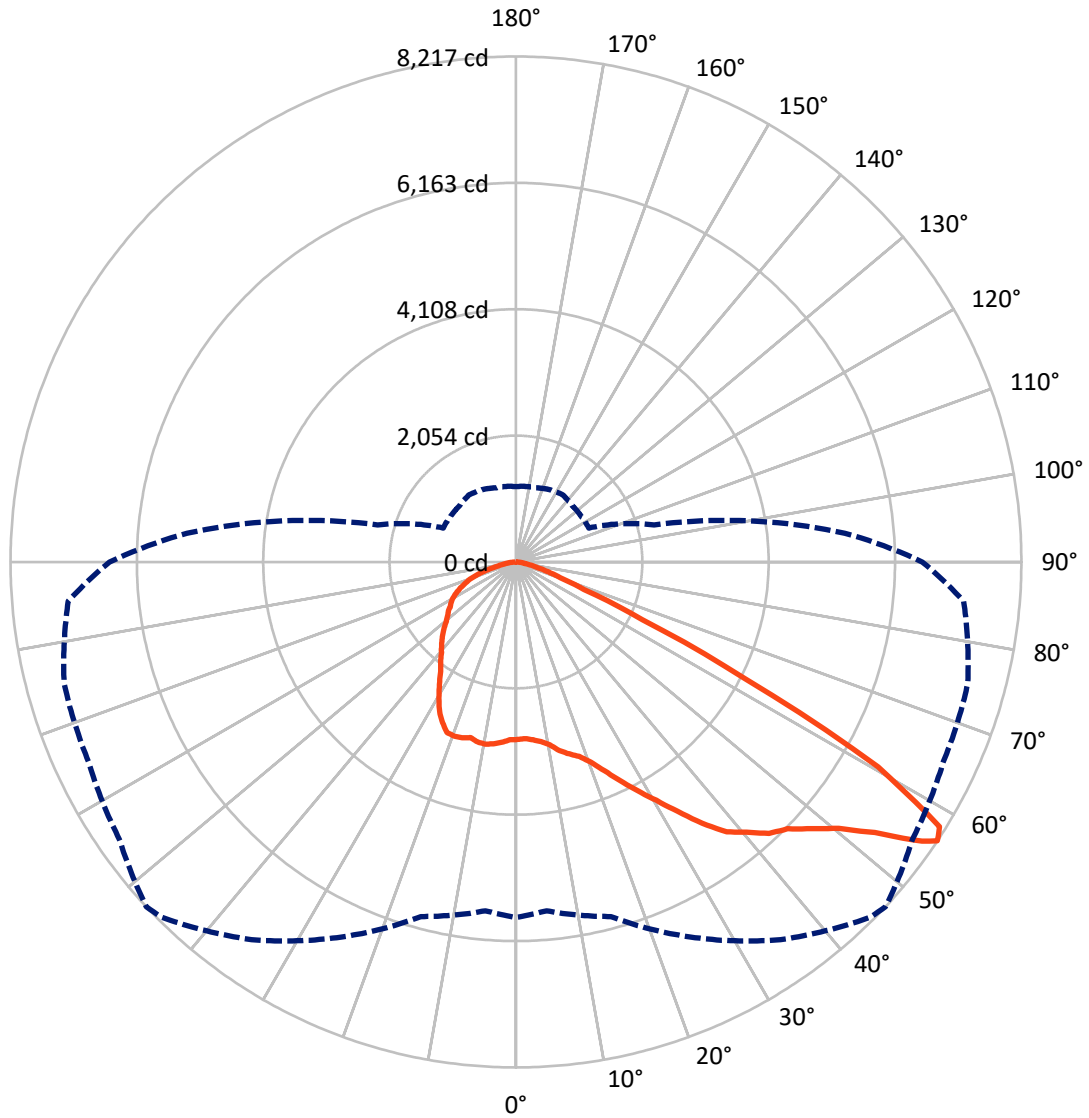
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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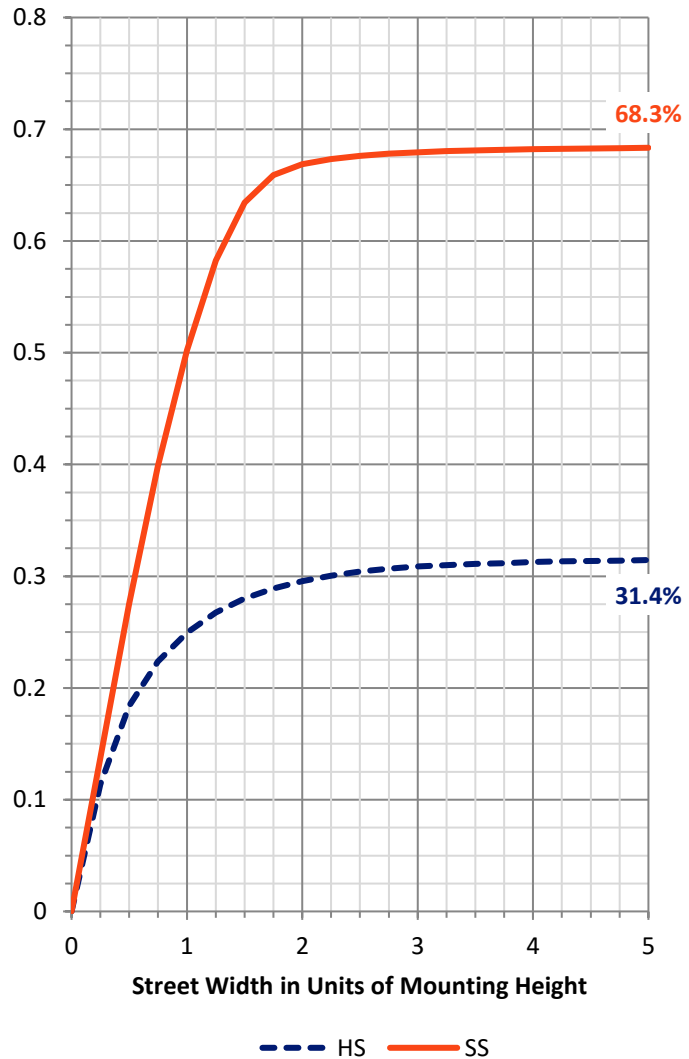
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4553.0	0.0	4553.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	9815.0	0.0	9815.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	14368.0	0.0	14368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.2	2.0
10°-20°	887.1	6.2
20°-30°	1568.1	10.9
30°-40°	2355.3	16.4
40°-50°	3232.4	22.5
50°-60°	3851.0	26.8
60°-70°	1648.0	11.5
70°-80°	466.4	3.2
80°-90°	78.5	0.5
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°	14368.0	100.0
0°-180°	14368.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528920

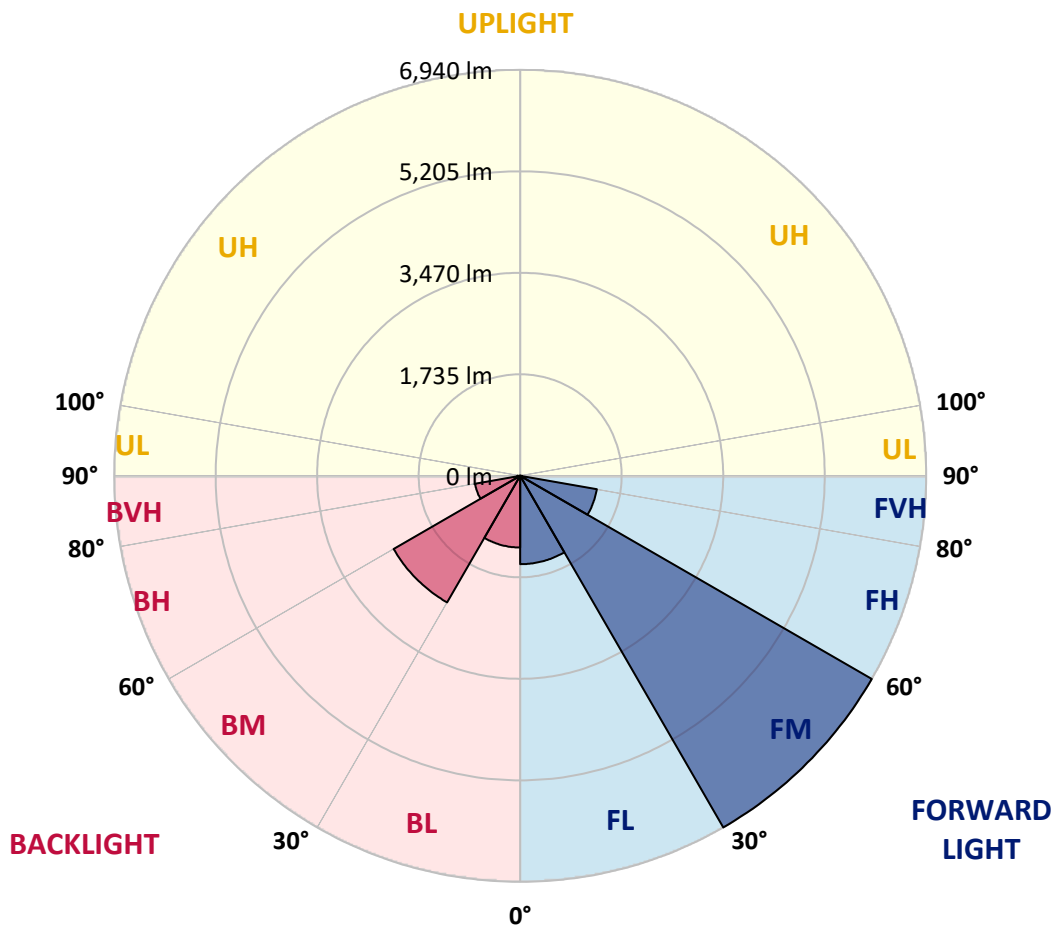
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.6	10.5			
FM (30°-60°)	6940.1	48.3			
FH (60°-80°)	1331.0	9.3			G1/1800
FVH (80°-90°)	33.3	0.2			G1/100
BL (0°-30°)	1225.9	8.5	B3/2500		
BM (30°-60°)	2498.6	17.4	B2/2500		
BH (60°-80°)	783.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	45.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2875.1	2869.6	2865.9	2895.3	2884.3	2886.1	2875.1	2886.1	2893.4	2876.9	2900.8
5°	2869.6	2886.1	2871.4	2880.6	2904.4	2897.1	2904.4	2926.4	2920.9	2915.4	2908.1
7.5°	2920.9	2922.7	2933.7	2937.4	2944.7	2937.4	2948.4	2968.6	2963.1	2931.9	2935.6
10°	2994.2	2997.9	2999.7	3019.9	3032.7	3034.5	3021.7	3003.4	3001.5	3043.7	3014.4
12.5°	3078.5	3069.3	3091.3	3098.7	3113.3	3129.8	3146.3	3107.8	3131.6	3133.5	3098.7
15°	3201.3	3210.4	3184.8	3184.8	3190.3	3192.1	3237.9	3219.6	3215.9	3195.8	3210.4
17.5°	3384.5	3322.2	3320.4	3294.7	3291.1	3305.7	3322.2	3336.9	3386.4	3346.0	3267.2
20°	3518.3	3532.9	3479.8	3448.7	3454.2	3487.1	3470.6	3536.6	3571.4	3505.5	3428.5
22.5°	3754.7	3705.2	3718.0	3648.4	3653.9	3688.7	3686.9	3754.7	3774.8	3670.4	3558.6
25°	3914.1	3901.3	3912.3	3857.3	3864.6	3892.1	3936.1	4047.9	4014.9	3899.4	3641.1
27.5°	4146.8	4121.2	4112.0	4091.8	4084.5	4157.8	4209.1	4328.2	4304.4	4135.8	3787.7
30°	4385.0	4368.5	4377.7	4295.2	4324.6	4480.3	4495.0	4658.1	4647.1	4350.2	3950.7
32.5°	4550.0	4559.1	4575.6	4529.8	4659.9	4784.5	4834.0	5019.1	5028.2	4718.5	4265.9
35°	4815.7	4784.5	4793.7	4846.8	4907.3	5134.5	5215.1	5337.9	5414.9	5105.2	4568.3
37.5°	4982.4	5015.4	4976.9	5061.2	5218.8	5491.8	5565.1	5691.6	5772.2	5486.3	4980.6
40°	5242.6	5189.5	5217.0	5277.4	5438.7	5794.2	5774.0	5904.1	5929.8	5810.7	5365.4
42.5°	5523.0	5497.3	5458.8	5596.3	5731.9	5990.2	6030.6	5970.1	6100.2	6127.7	5915.1
45°	5858.3	5889.5	5895.0	5898.6	6017.7	6243.1	6188.2	6135.0	6285.3	6485.0	6256.0
47.5°	6169.8	6070.9	6142.3	6241.3	6409.9	6411.7	6475.8	6349.4	6508.8	6686.6	6563.8
50°	6274.3	6226.6	6321.9	6508.8	6769.0	6796.5	6803.9	6624.3	6706.7	6847.8	6670.1
52.5°	6234.0	6217.5	6461.2	6750.7	7131.9	7271.1	7307.8	7086.0	7131.9	7067.7	6904.6
55°	6041.6	6091.0	6336.6	6926.6	7511.2	7941.8	8011.4	7731.1	7439.7	7489.2	7309.6
56°	5777.7	5691.6	5966.4	6726.9	7494.7	8159.9	8216.7	7866.7	7668.8	7604.6	7305.9
57.5°	4901.8	4790.0	5151.0	6052.6	7078.7	8077.4	8119.5	7923.5	7630.3	7500.2	6772.7
60°	2869.6	2924.6	3382.7	4174.3	5460.7	6622.4	6763.5	6906.5	6710.4	6127.7	5041.0
62.5°	1385.3	1350.5	1678.5	2393.2	3327.7	4227.4	4185.3	4586.6	4806.5	4353.9	3183.0
65°	725.6	722.0	916.2	1306.5	1828.8	2220.9	2259.4	2475.6	2778.0	2242.9	1616.2
67.5°	533.2	547.9	645.0	918.1	1176.4	1200.2	1194.8	1302.9	1332.2	1127.0	993.2
70°	417.8	425.1	496.6	698.2	875.9	784.3	767.8	780.6	866.7	903.4	859.4
72.5°	302.4	309.7	370.2	470.9	547.9	535.1	546.1	617.5	723.8	762.3	716.5
75°	201.6	207.1	240.0	287.7	324.3	350.0	370.2	452.6	551.6	573.6	551.6
77.5°	139.3	144.8	166.8	203.4	207.1	223.6	230.9	269.4	329.8	357.3	342.7
80°	78.8	78.8	89.8	104.4	128.3	150.3	153.9	185.1	212.6	230.9	234.6
82.5°	36.6	38.5	47.6	64.1	84.3	104.4	108.1	128.3	148.4	166.8	172.2
85°	18.3	20.2	27.5	38.5	51.3	62.3	60.5	62.3	66.0	62.3	64.1
87.5°	5.5	5.5	7.3	9.2	7.3	9.2	9.2	11.0	12.8	14.7	16.5
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°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2902.6	2908.1	2871.4	2906.3	2893.4	2891.6	2917.2	2913.6	2922.7	2919.1	2897.1
5°	2904.4	2891.6	2930.1	2895.3	2911.7	2946.6	2922.7	2977.7	2950.2	2968.6	2928.2
7.5°	2961.2	2964.9	2957.6	2972.2	2964.9	2981.4	2968.6	2981.4	2959.4	2961.2	2997.9
10°	3010.7	2999.7	3012.5	2994.2	3007.0	3001.5	2972.2	2963.1	2970.4	2961.2	2985.0
12.5°	3102.3	3082.2	3073.0	3051.0	3036.4	2981.4	2935.6	2909.9	2944.7	2950.2	2939.2
15°	3195.8	3197.6	3155.5	3106.0	3014.4	2931.9	2942.9	2952.1	2952.1	2966.7	2939.2
17.5°	3254.4	3254.4	3215.9	3117.0	3023.5	2975.9	2964.9	2935.6	2909.9	2906.3	2904.4
20°	3357.0	3325.9	3237.9	3115.1	3019.9	2997.9	2915.4	2845.8	2792.6	2774.3	2772.5
22.5°	3474.3	3395.5	3272.7	3118.8	3014.4	2983.2	2829.3	2724.8	2629.6	2589.2	2594.7
25°	3582.4	3456.0	3292.9	3102.3	2994.2	2843.9	2671.7	2526.9	2428.0	2395.0	2378.5
27.5°	3657.6	3520.1	3292.9	3117.0	2919.1	2688.2	2512.3	2327.2	2241.1	2219.1	2222.8
30°	3758.3	3600.7	3349.7	3085.8	2768.8	2486.6	2275.9	2155.0	2103.6	2085.3	2098.1
32.5°	3994.7	3811.5	3428.5	3010.7	2591.1	2285.1	2114.6	2046.8	1971.7	1935.1	1922.2
35°	4251.3	4011.2	3505.5	2884.3	2391.3	2101.8	1995.5	1933.2	1843.4	1803.1	1810.5
37.5°	4614.1	4267.8	3511.0	2675.4	2175.1	1999.2	1902.1	1805.0	1731.7	1669.4	1651.0
40°	5103.3	4617.8	3498.1	2455.5	2001.0	1878.3	1806.8	1685.8	1603.4	1559.4	1568.6
42.5°	5534.0	5028.2	3445.0	2206.3	1843.4	1795.8	1715.2	1596.1	1515.4	1469.6	1466.0
45°	5896.8	5330.6	3344.2	1993.7	1711.5	1704.2	1610.7	1519.1	1455.0	1412.8	1431.1
47.5°	6232.1	5574.3	3192.1	1781.1	1590.6	1605.2	1515.4	1458.6	1418.3	1379.8	1378.0
50°	6353.1	5570.6	3058.3	1605.2	1493.4	1486.1	1482.4	1422.0	1379.8	1346.8	1361.5
52.5°	6554.6	5632.9	2913.6	1484.3	1405.5	1407.3	1420.1	1376.2	1328.5	1308.4	1326.7
55°	6844.2	5642.1	2594.7	1343.2	1332.2	1345.0	1345.0	1315.7	1275.4	1258.9	1249.7
56°	6607.8	5369.1	2327.2	1306.5	1295.5	1295.5	1330.4	1297.4	1247.9	1235.1	1224.1
57.5°	6094.7	4703.9	1947.9	1262.6	1246.1	1271.7	1290.0	1255.2	1209.4	1191.1	1202.1
60°	4203.6	3183.0	1464.1	1167.3	1167.3	1209.4	1224.1	1172.8	1152.6	1150.8	1136.1
62.5°	2453.6	1854.4	1145.3	1081.1	1084.8	1119.6	1130.6	1101.3	1075.6	1106.8	1121.5
65°	1301.0	1106.8	982.2	989.5	991.4	1018.8	1066.5	1064.6	1062.8	1072.0	1073.8
67.5°	941.9	919.9	892.4	885.1	888.7	908.9	956.5	993.2	991.4	969.4	952.9
70°	839.3	808.1	791.6	793.4	778.8	802.6	841.1	864.9	822.8	797.1	786.1
72.5°	698.2	689.0	678.0	679.8	650.5	645.0	601.0	601.0	590.0	582.7	595.5
75°	533.2	529.6	535.1	525.9	494.8	461.8	436.1	412.3	375.7	361.0	353.7
77.5°	337.2	348.2	361.0	340.8	328.0	304.2	278.5	254.7	225.4	208.9	208.9
80°	229.1	238.2	247.4	243.7	229.1	207.1	186.9	161.3	141.1	128.3	126.4
82.5°	174.1	181.4	194.2	179.6	164.9	146.6	130.1	111.8	93.5	78.8	78.8
85°	62.3	71.5	78.8	86.1	91.6	93.5	80.6	66.0	53.1	42.1	40.3
87.5°	16.5	18.3	20.2	18.3	18.3	18.3	20.2	18.3	16.5	12.8	12.8
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)