

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: P532895

Luminaire Tested: **GALN-SA8B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28309 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

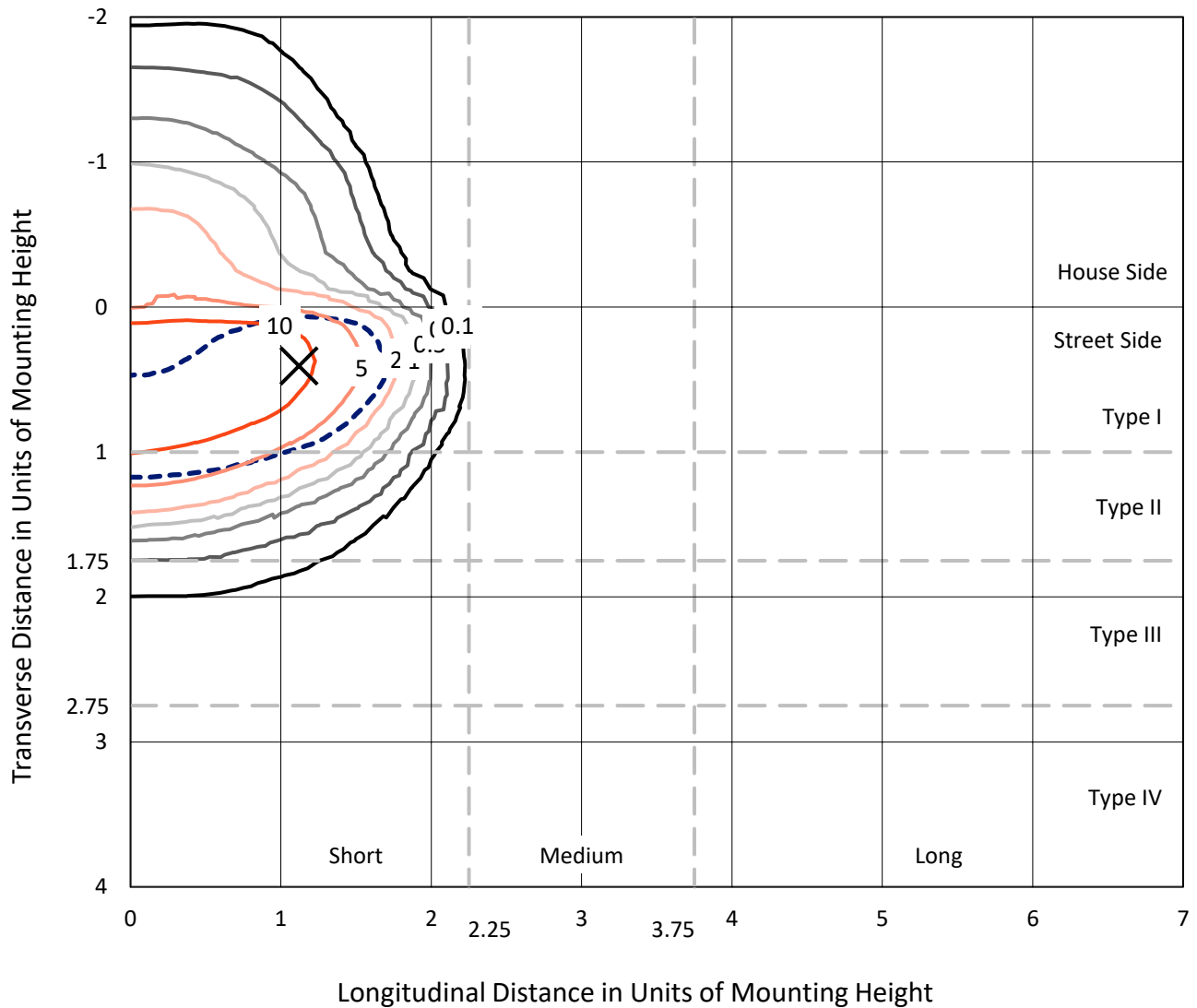
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532895  
 CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

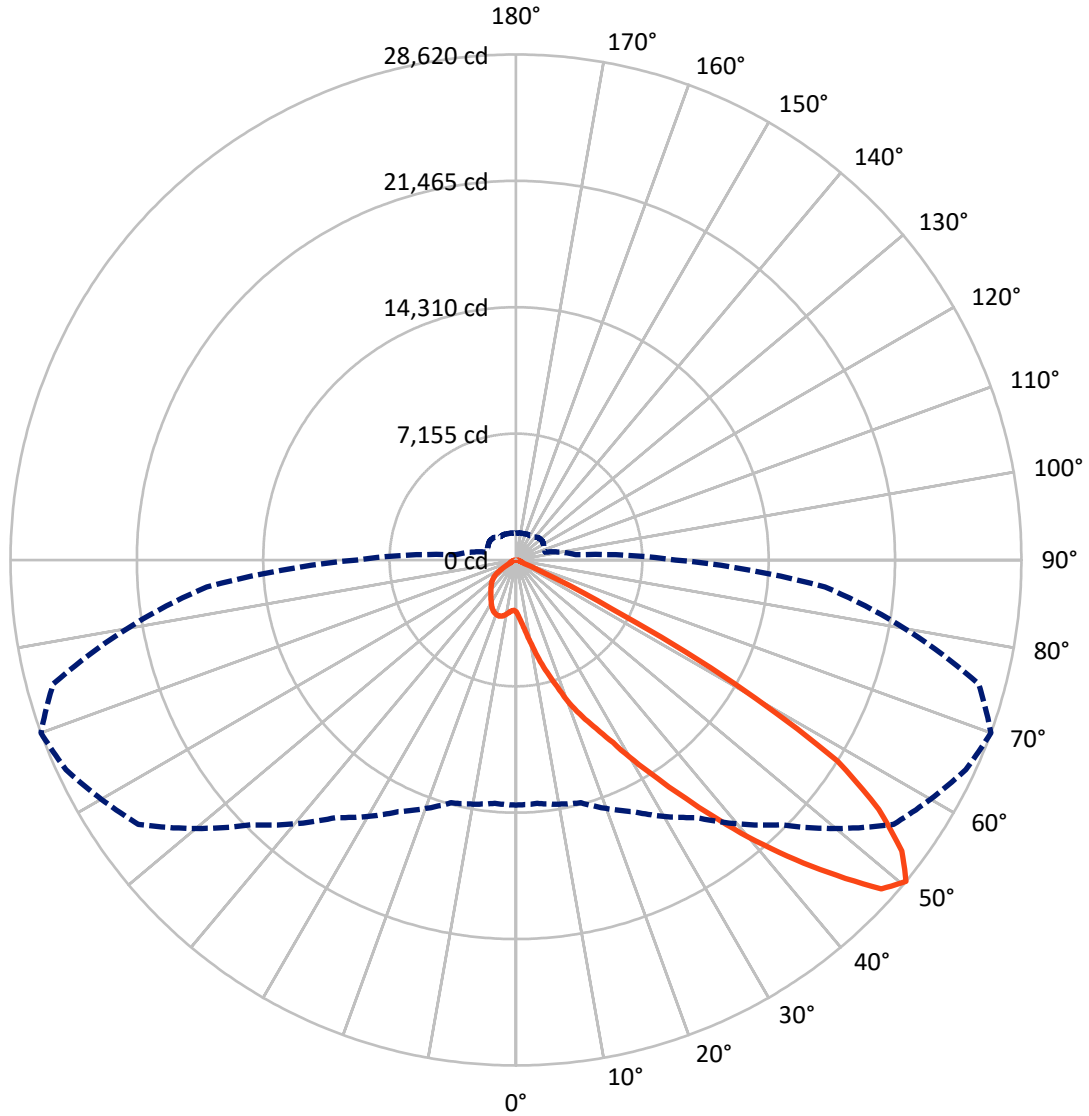
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type I - Short - N/A

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CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

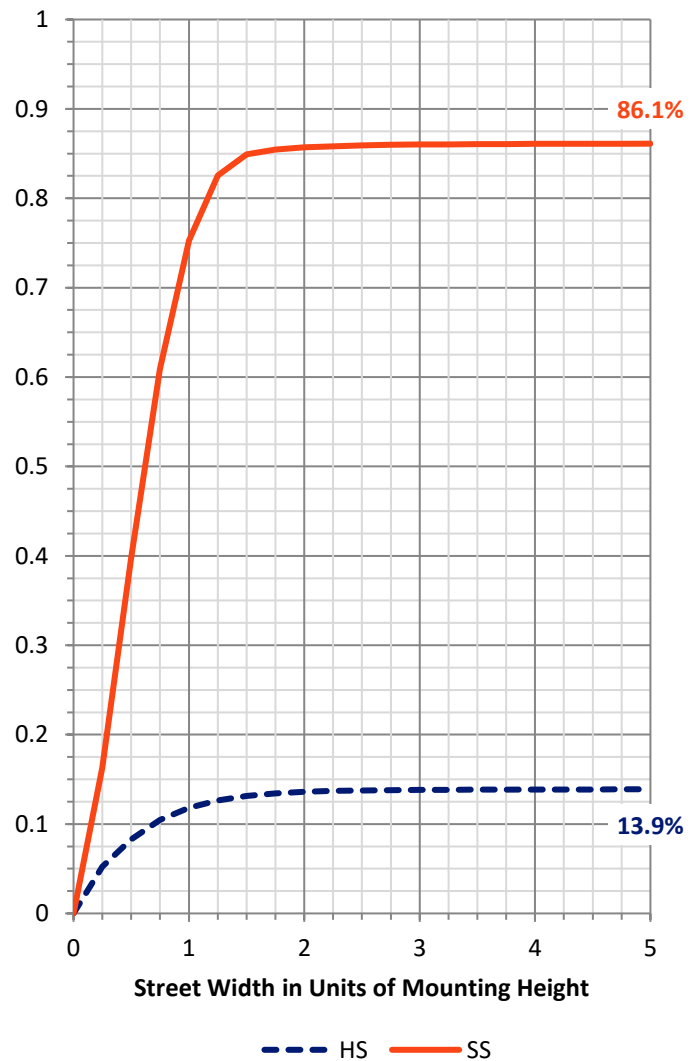
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3953.6	0.0	3953.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	24355.5	0.0	24355.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	28309.0	0.0	28309.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.3	1.3
10°-20°	1649.4	5.8
20°-30°	3460.1	12.2
30°-40°	5964.0	21.1
40°-50°	8716.4	30.8
50°-60°	6788.6	24.0
60°-70°	1150.2	4.1
70°-80°	158.0	0.6
80°-90°	40.9	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°	28309.0	100.0
0°-180°	28309.0	100.0



REPORT NUMBER: P532895

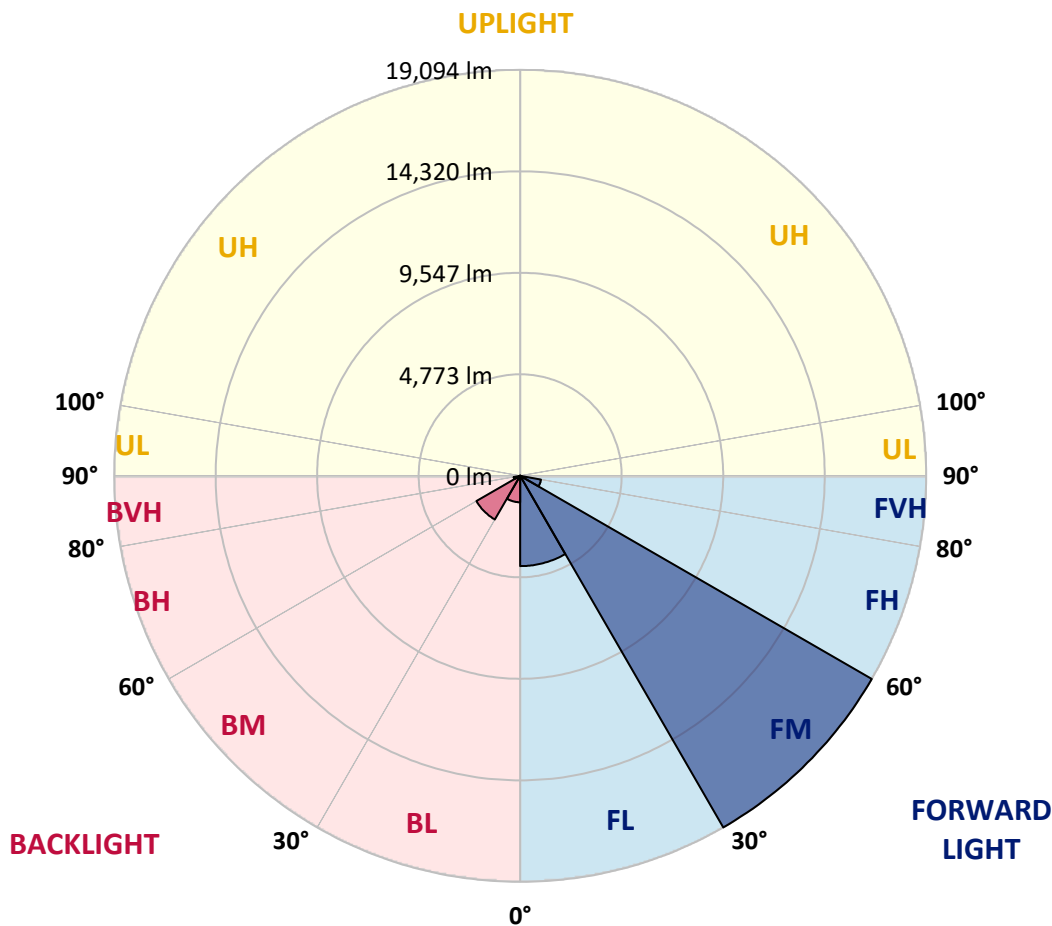
CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4246.7	15.0			
FM (30°-60°)	19093.9	67.4			
FH (60°-80°)	995.9	3.5			G1/1800
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1244.1	4.4	B3/2500		
BM (30°-60°)	2375.2	8.4	B2/2500		
BH (60°-80°)	312.3	1.1	B1/500		G1/500
BVH (80°-90°)	22.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P532895

CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3
2.5°	3839.9	3811.9	3751.4	3639.7	3593.2	3481.5	3416.3	3290.6	3211.5	3123.1	3025.3
5°	5408.4	5264.1	5175.7	5050.0	4682.3	4454.2	4077.2	3756.1	3607.1	3444.2	3220.8
7.5°	7028.1	6935.0	6814.0	6544.0	6292.7	5818.0	5171.0	4463.5	4161.0	3881.7	3439.6
10°	8368.6	8107.9	8094.0	7893.8	7619.2	7051.4	6274.1	5394.4	4854.5	4444.9	3751.4
12.5°	9304.1	9066.7	9173.8	9150.5	8894.5	8373.2	7474.9	6311.3	5748.2	5110.5	4072.6
15°	10155.8	10058.1	10025.5	9997.6	9895.2	9508.9	8703.7	7428.4	6613.9	5845.9	4435.6
17.5°	10989.0	10737.6	10858.7	10881.9	10872.6	10523.5	9769.5	8489.6	7530.8	6623.2	4817.3
20°	11729.0	11752.3	11589.4	11556.8	11528.9	11514.9	10779.5	9541.5	8657.1	7437.7	5315.3
22.5°	12678.5	12515.6	12659.9	12566.8	12385.3	12273.6	11710.4	10472.3	9634.6	8419.8	5822.6
25°	13800.2	13930.5	13590.8	13553.5	13353.4	12967.1	12459.8	11514.9	10574.7	9332.0	6371.8
27.5°	15182.6	14954.5	14866.1	14661.3	14298.2	14135.3	13539.6	12590.1	11710.4	10290.8	6902.4
30°	16369.4	16308.9	15866.8	15624.7	15308.2	15303.6	14470.4	14046.9	13190.5	11794.2	7633.2
32.5°	17337.5	17072.2	16909.3	16741.8	16485.8	16555.6	15852.8	15629.4	14768.3	13190.5	8494.2
35°	17984.5	17793.7	17695.9	17439.9	17365.5	17677.3	17384.1	17291.0	16583.5	15154.6	9504.2
37.5°	18189.3	18249.8	18231.2	17910.0	18068.3	18910.7	19287.7	19045.7	18673.3	17225.8	10598.0
40°	18370.8	18412.7	18319.6	18696.6	19148.1	20106.9	21470.6	21070.3	20930.7	19325.0	12120.0
42.5°	18473.2	18440.6	18440.6	19092.2	19776.4	21703.3	23579.1	23313.8	23206.7	21559.1	13879.3
45°	18031.0	17714.5	18054.3	18938.6	20316.3	22489.9	25263.9	25631.6	25478.0	24216.7	15936.6
47.5°	16378.7	16574.2	16765.1	17947.3	19660.1	22247.9	26297.2	27549.2	27833.2	26450.8	17286.3
50°	13879.3	13837.5	14233.1	15722.5	17803.0	21205.3	26097.1	28103.1	28619.7	27121.0	17570.3
52.5°	10095.3	10402.5	10830.7	12310.8	14777.6	18505.8	23513.9	26674.2	27363.1	26297.2	17384.1
55°	5878.5	5538.7	6502.2	7754.2	10081.4	13958.5	19878.8	23644.2	24919.5	24798.5	16443.9
57.5°	2355.1	2280.6	2611.1	3518.7	5259.4	8652.5	14456.5	19427.4	21470.6	22713.3	14451.8
60°	1033.3	1010.0	1186.9	1433.5	2150.3	3988.8	7907.8	12082.8	14214.5	15871.4	9946.4
62.5°	744.7	735.4	823.8	912.3	1135.7	1736.1	3323.2	4868.5	6069.3	7330.6	4454.2
65°	600.4	623.7	684.2	730.7	837.8	963.5	1172.9	1354.4	1661.6	1722.1	982.1
67.5°	488.7	507.3	563.2	614.4	633.0	521.3	539.9	474.7	474.7	423.5	339.8
70°	358.4	363.0	428.2	488.7	391.0	209.4	367.7	367.7	330.5	316.5	288.6
72.5°	265.3	270.0	321.2	302.5	153.6	130.3	270.0	297.9	270.0	256.0	232.7
75°	195.5	200.1	167.6	69.8	65.2	83.8	158.2	204.8	195.5	190.8	176.9
77.5°	37.2	27.9	23.3	32.6	46.5	69.8	102.4	125.7	130.3	139.6	130.3
80°	4.7	4.7	14.0	27.9	51.2	74.5	107.1	121.0	125.7	130.3	121.0
82.5°	0.0	4.7	14.0	27.9	51.2	69.8	93.1	107.1	116.4	121.0	116.4
85°	0.0	4.7	9.3	23.3	41.9	51.2	46.5	32.6	27.9	32.6	23.3
87.5°	0.0	0.0	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532895

CATALOG NUMBER: GALN-SA8B-735-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3	2932.3
2.5°	2969.5	2950.9	2885.7	2815.9	2755.4	2783.3	2755.4	2732.1	2741.4	2732.1	2722.8
5°	3132.4	3048.6	2909.0	2848.5	2797.3	2792.6	2778.7	2774.0	2778.7	2778.7	2736.8
7.5°	3286.0	3151.0	3002.1	2936.9	2876.4	2881.1	2848.5	2848.5	2843.8	2820.6	2811.2
10°	3518.7	3337.2	3146.4	3030.0	2955.5	2941.6	2909.0	2876.4	2876.4	2876.4	2829.9
12.5°	3774.7	3546.6	3286.0	3151.0	3062.6	2992.8	2941.6	2932.3	2881.1	2871.7	2848.5
15°	3998.1	3709.5	3379.1	3192.9	3081.2	2988.1	2909.0	2857.8	2834.5	2820.6	2801.9
17.5°	4216.9	3849.2	3430.3	3192.9	3071.9	2964.8	2881.1	2834.5	2778.7	2788.0	2750.7
20°	4510.1	3998.1	3444.2	3132.4	2983.5	2881.1	2769.4	2746.1	2713.5	2685.6	2694.9
22.5°	4794.0	4105.2	3402.3	3057.9	2843.8	2722.8	2667.0	2639.0	2625.1	2601.8	2569.2
25°	5050.0	4221.5	3337.2	2922.9	2694.9	2606.4	2555.3	2550.6	2518.0	2518.0	2457.5
27.5°	5310.6	4263.4	3225.5	2764.7	2564.6	2513.4	2490.1	2480.8	2466.8	2434.2	2392.3
30°	5608.5	4277.4	3062.6	2601.8	2448.2	2392.3	2424.9	2448.2	2387.7	2327.2	2345.8
32.5°	5855.2	4244.8	2867.1	2448.2	2364.4	2336.5	2401.7	2424.9	2355.1	2290.0	2257.4
35°	6153.1	4165.7	2676.3	2327.2	2280.6	2336.5	2392.3	2392.3	2252.7	2173.6	2155.0
37.5°	6604.6	4077.2	2499.4	2224.8	2192.2	2308.6	2383.0	2331.8	2113.1	2015.3	1992.1
40°	7088.6	4021.4	2327.2	2122.4	2145.7	2262.0	2303.9	2145.7	1922.3	1861.7	1843.1
42.5°	7791.4	3909.7	2173.6	2034.0	2103.8	2196.9	2196.9	1912.9	1829.2	1796.6	1791.9
45°	8666.4	3830.5	2038.6	1959.5	2043.3	2066.5	1992.1	1791.9	1731.4	1722.1	1726.8
47.5°	9094.6	3677.0	1899.0	1871.1	1931.6	1936.2	1740.7	1694.2	1643.0	1629.0	1619.7
50°	9029.5	3402.3	1717.5	1754.7	1838.5	1791.9	1587.1	1596.4	1549.9	1545.3	1522.0
52.5°	8573.4	2969.5	1535.9	1624.4	1717.5	1582.5	1461.5	1452.2	1452.2	1391.7	1368.4
55°	7600.6	2392.3	1317.2	1428.9	1540.6	1331.2	1298.6	1289.3	1266.0	1210.1	1196.2
57.5°	6018.1	1754.7	991.4	1112.4	1307.9	1131.0	1126.4	1084.5	1024.0	982.1	982.1
60°	3579.2	1010.0	623.7	679.5	865.7	916.9	1019.3	1000.7	898.3	833.1	814.5
62.5°	1633.7	521.3	395.6	404.9	465.4	595.8	800.6	926.2	781.9	670.2	660.9
65°	549.2	386.3	325.8	311.8	321.2	358.4	479.4	656.3	623.7	516.6	498.0
67.5°	335.1	344.4	307.2	283.9	283.9	279.3	274.6	297.9	367.7	358.4	363.0
70°	288.6	316.5	283.9	256.0	246.7	232.7	195.5	162.9	139.6	162.9	172.2
72.5°	232.7	251.3	242.0	218.8	195.5	176.9	139.6	107.1	79.1	69.8	69.8
75°	172.2	186.2	195.5	167.6	148.9	125.7	102.4	69.8	41.9	27.9	27.9
77.5°	125.7	139.6	144.3	130.3	111.7	88.4	65.2	46.5	23.3	9.3	9.3
80°	107.1	125.7	139.6	130.3	116.4	83.8	60.5	32.6	18.6	4.7	4.7
82.5°	102.4	125.7	139.6	125.7	111.7	79.1	60.5	37.2	14.0	4.7	4.7
85°	23.3	32.6	41.9	51.2	60.5	60.5	46.5	27.9	14.0	4.7	4.7
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	4.7	4.7	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)