

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: P528895

Luminaire Tested: **GALN-SA4A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528895  
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-SA4A-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA 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: 10020 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

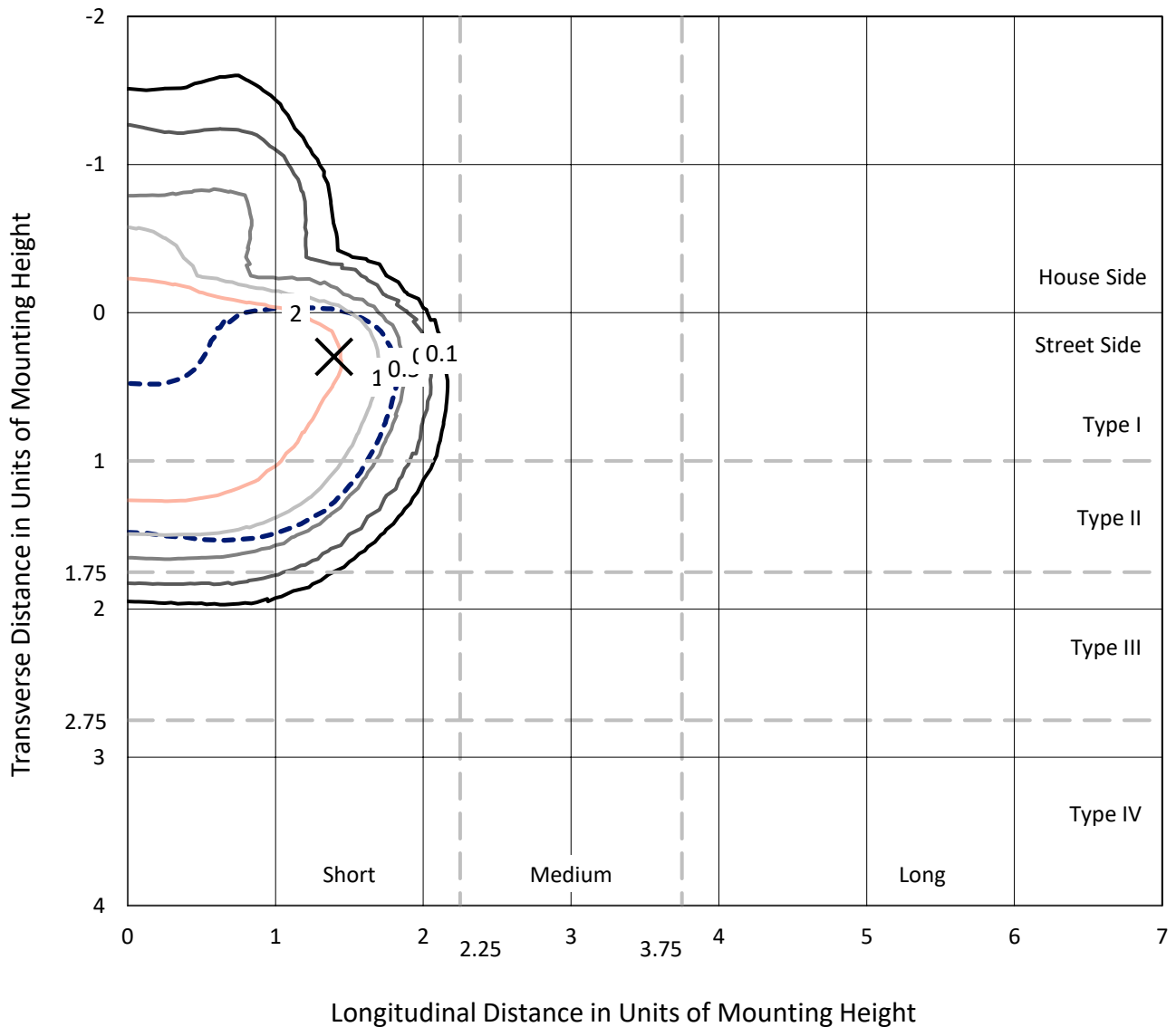
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

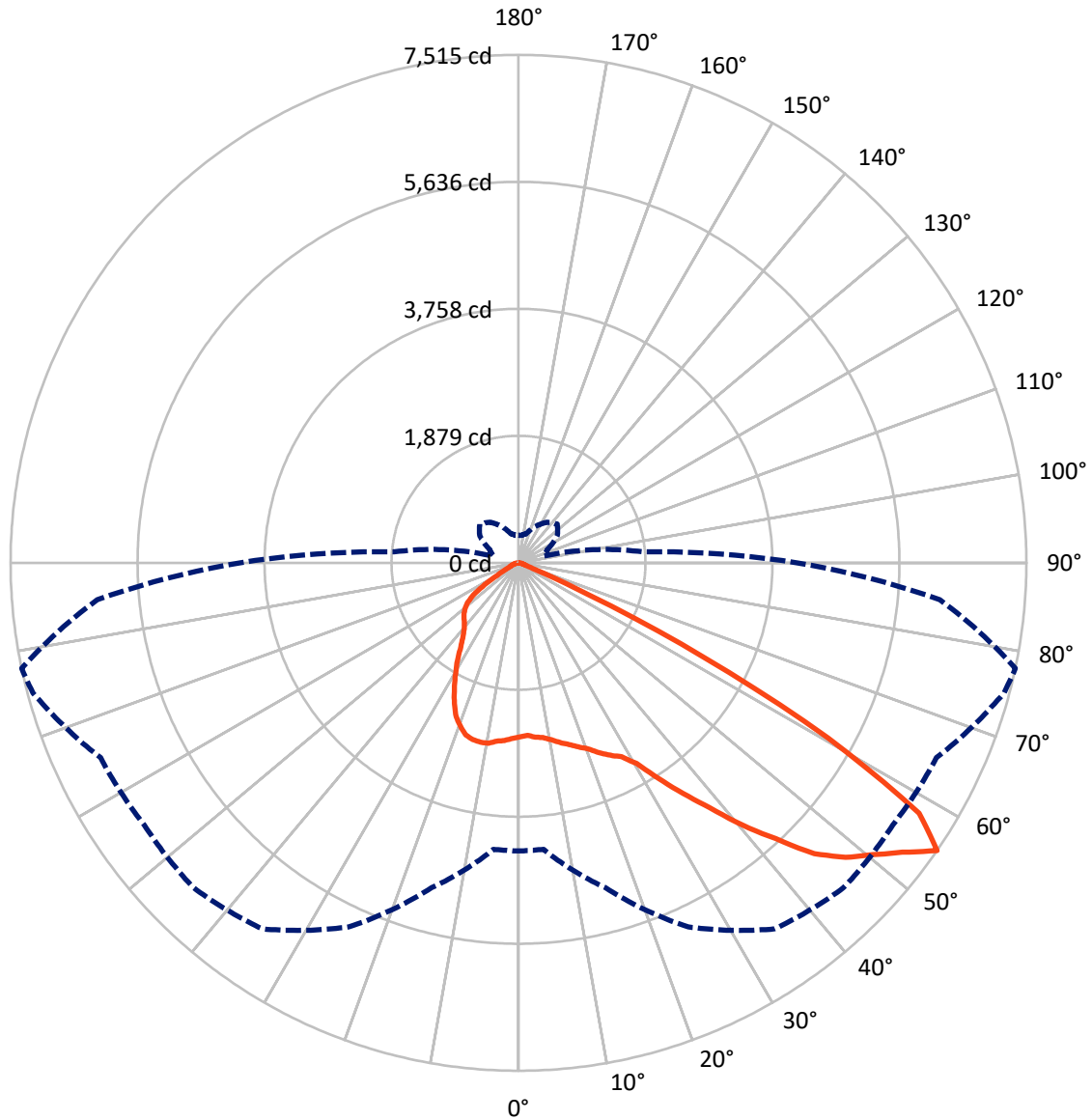
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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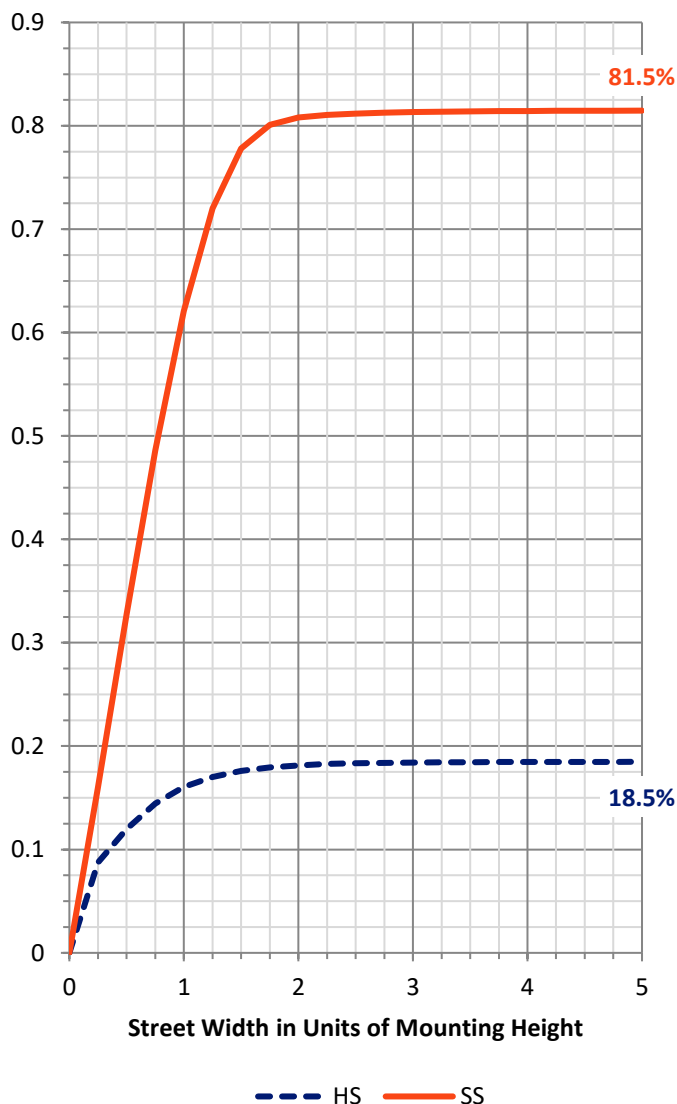
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1861.1	0.0	1861.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8158.9	0.0	8158.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10020.0	0.0	10020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.7	2.3
10°-20°	607.9	6.1
20°-30°	1065.6	10.6
30°-40°	1757.0	17.5
40°-50°	2556.7	25.5
50°-60°	2897.0	28.9
60°-70°	828.3	8.3
70°-80°	64.3	0.6
80°-90°	13.4	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°	10020.0	100.0
0°-180°	10020.0	100.0

**Coefficient of Utilization**



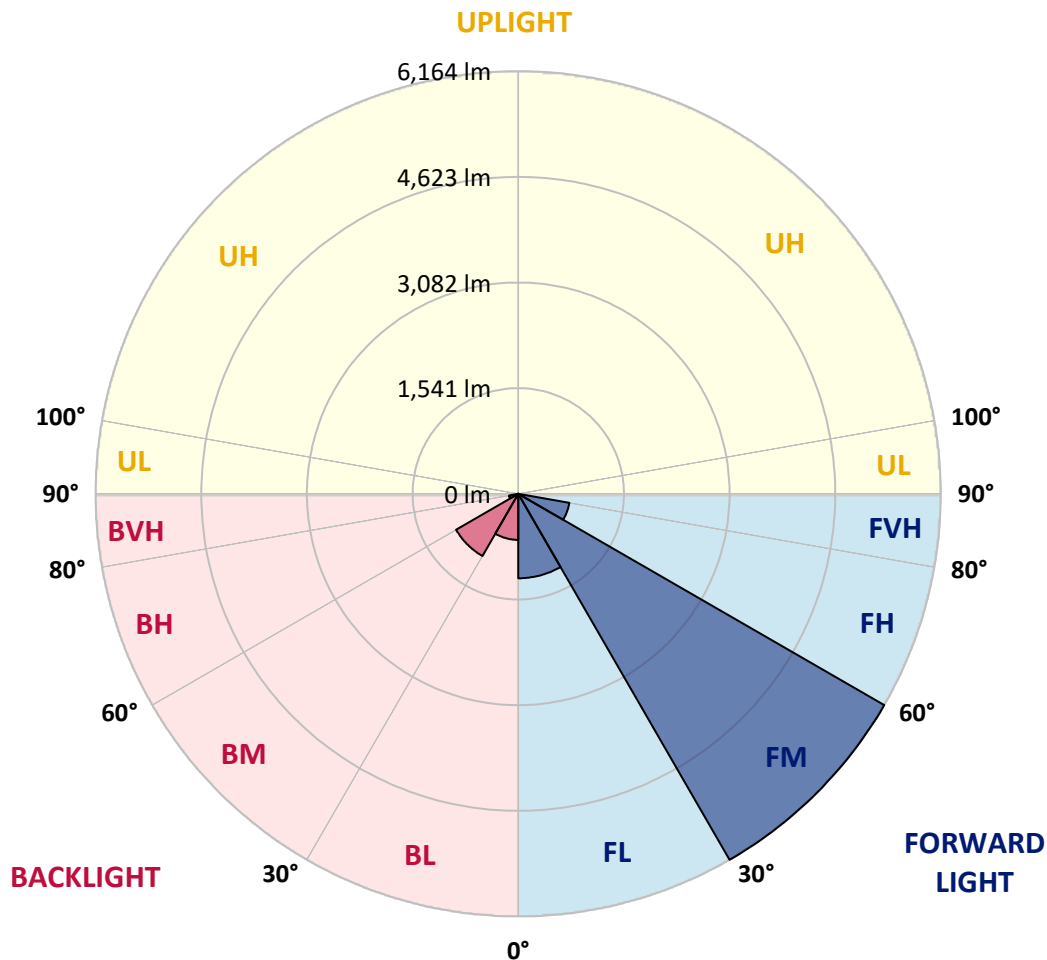
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.7	12.3			
FM (30°-60°)	6163.9	61.5			
FH (60°-80°)	756.8	7.6			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	671.5	6.7	B2/1000		
BM (30°-60°)	1046.9	10.4	B2/2500		
BH (60°-80°)	135.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.9	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°	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1
2.5°	2422.1	2445.4	2449.0	2477.6	2475.8	2524.2	2538.5	2540.3	2572.6	2556.4	2597.6
5°	2354.0	2341.5	2336.1	2386.3	2400.6	2443.6	2479.4	2500.9	2567.2	2590.5	2633.5
7.5°	2293.1	2293.1	2296.7	2341.5	2336.1	2391.6	2429.2	2495.5	2592.3	2612.0	2663.9
10°	2234.0	2212.5	2239.3	2285.9	2325.3	2350.4	2429.2	2491.9	2604.8	2662.1	2733.8
12.5°	2203.5	2214.3	2217.9	2251.9	2294.9	2370.1	2413.1	2517.0	2694.4	2728.4	2805.5
15°	2395.2	2373.7	2321.8	2291.3	2327.1	2363.0	2470.5	2576.1	2741.0	2789.3	2875.3
17.5°	2617.4	2599.4	2556.4	2474.0	2393.4	2459.7	2543.9	2640.6	2791.1	2862.8	2990.0
20°	2907.6	2878.9	2835.9	2674.7	2604.8	2533.2	2622.7	2737.4	2873.5	2938.0	3068.8
22.5°	3253.3	3253.3	3156.6	2961.3	2816.2	2748.1	2785.8	2852.0	2964.9	3052.7	3181.7
25°	3613.4	3602.7	3514.9	3312.4	3067.0	2986.4	3029.4	3076.0	3106.4	3154.8	3240.8
27.5°	4025.5	3962.8	3851.7	3627.7	3411.0	3255.1	3301.7	3260.5	3222.9	3248.0	3371.6
30°	4304.9	4344.3	4202.8	3987.8	3783.6	3609.8	3618.8	3583.0	3411.0	3446.8	3520.3
32.5°	4595.1	4620.2	4541.4	4423.2	4218.9	4016.5	3943.0	3912.6	3783.6	3799.7	3728.1
35°	4837.0	4885.4	4815.5	4763.5	4704.4	4541.4	4339.0	4437.5	4229.7	4190.3	4004.0
37.5°	5059.1	5044.8	5127.2	5073.5	5060.9	4946.3	4724.1	4743.8	4604.1	4595.1	4380.2
40°	5258.0	5261.6	5374.4	5399.5	5349.4	5145.1	4822.7	4978.5	5091.4	5102.1	4826.2
42.5°	5422.8	5471.2	5567.9	5770.4	5695.1	5354.7	4924.8	5095.0	5514.2	5580.5	5249.0
45°	5566.1	5664.7	5784.7	5965.6	5922.6	5652.1	5179.2	5335.0	5965.6	6139.4	5646.7
47.5°	5575.1	5704.1	5834.8	6103.6	6157.3	5811.6	5442.5	5714.8	6323.9	6512.0	5937.0
50°	5539.3	5607.3	5868.9	6160.9	6282.7	6071.3	5811.6	6033.7	6671.5	6789.7	6083.9
52.5°	5114.7	5166.6	5691.5	6214.6	6508.4	6365.1	6300.6	6478.0	7026.2	7114.0	6221.8
55°	4263.7	4254.8	4976.7	5944.1	6612.4	6800.5	6761.0	6823.7	7436.4	7515.3	6255.8
57.5°	2916.5	3079.6	3703.0	4949.9	5976.4	6698.3	6739.5	6635.6	6958.1	6988.6	5453.3
60°	1572.9	1641.0	2142.6	3303.5	4550.4	5458.6	5566.1	5378.0	5352.9	5267.0	3892.9
62.5°	625.2	659.3	944.1	1635.6	2479.4	3317.8	3548.9	3471.9	3307.1	3081.3	2015.4
65°	297.4	318.9	469.4	765.0	1100.0	1383.0	1614.1	1685.8	1243.3	1119.7	664.6
67.5°	202.4	218.6	342.2	437.1	392.3	410.2	533.9	496.2	292.0	249.0	184.5
70°	154.1	164.8	274.1	297.4	175.6	123.6	137.9	129.0	120.0	121.8	120.0
72.5°	109.3	118.2	200.6	175.6	77.0	57.3	73.5	87.8	87.8	87.8	86.0
75°	66.3	75.2	116.4	68.1	30.5	30.5	46.6	59.1	62.7	64.5	60.9
77.5°	34.0	43.0	39.4	19.7	19.7	23.3	34.0	41.2	44.8	44.8	43.0
80°	7.2	7.2	7.2	10.7	19.7	25.1	34.0	37.6	43.0	43.0	39.4
82.5°	0.0	1.8	5.4	10.7	17.9	23.3	32.2	37.6	43.0	44.8	41.2
85°	0.0	1.8	3.6	7.2	12.5	14.3	12.5	10.7	10.7	10.7	10.7
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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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CATALOG NUMBER: GALN-SA4A-730-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1	2576.1
2.5°	2601.2	2606.6	2597.6	2595.9	2588.7	2610.2	2558.2	2545.7	2577.9	2547.5	2554.7
5°	2635.3	2647.8	2631.7	2604.8	2565.4	2504.5	2452.5	2384.5	2352.2	2328.9	2325.3
7.5°	2660.3	2669.3	2653.2	2567.2	2449.0	2294.9	2180.2	2096.0	2029.7	2010.0	1977.8
10°	2762.5	2764.3	2683.6	2493.7	2262.6	2060.2	1884.6	1755.7	1689.4	1648.2	1630.2
12.5°	2830.5	2827.0	2663.9	2348.6	2040.5	1771.8	1571.1	1415.3	1354.4	1334.7	1322.1
15°	2916.5	2896.8	2617.4	2199.9	1753.9	1463.6	1282.7	1175.2	1169.8	1157.3	1169.8
17.5°	2984.6	2929.1	2549.3	1929.4	1479.8	1205.7	1087.4	1094.6	1108.9	1121.5	1123.3
20°	3095.7	2981.0	2393.4	1692.9	1225.4	1033.7	1031.9	1064.1	1100.0	1114.3	1128.6
22.5°	3179.9	3002.5	2226.8	1440.3	1017.6	963.8	994.3	1042.6	1069.5	1083.8	1105.3
25°	3210.3	2943.4	2004.7	1187.8	917.2	931.6	978.1	1010.4	1044.4	1060.6	1051.6
27.5°	3240.8	2912.9	1739.5	978.1	863.5	910.1	949.5	981.7	992.5	1014.0	1028.3
30°	3314.2	2807.2	1501.3	845.6	836.6	895.7	924.4	935.2	963.8	976.4	976.4
32.5°	3373.4	2766.0	1248.7	782.9	833.0	902.9	906.5	906.5	910.1	901.1	897.5
35°	3495.2	2624.5	1022.9	745.3	831.2	904.7	913.7	883.2	800.8	768.5	759.6
37.5°	3645.7	2533.2	856.3	736.3	843.8	926.2	940.5	825.9	718.4	666.4	657.5
40°	3828.4	2468.7	747.0	732.7	872.5	976.4	933.4	781.1	641.3	566.1	562.5
42.5°	4041.6	2409.5	673.6	730.9	908.3	1028.3	926.2	743.5	562.5	512.4	519.5
45°	4211.8	2377.3	623.4	718.4	920.8	1058.8	931.6	677.2	530.3	498.0	501.6
47.5°	4344.3	2309.2	582.2	696.9	919.0	1069.5	883.2	650.3	514.2	523.1	532.1
50°	4347.9	2217.9	530.3	650.3	892.2	1049.8	827.7	625.2	510.6	548.2	566.1
52.5°	4299.6	2088.9	474.7	584.0	829.5	981.7	777.5	614.5	494.4	490.9	512.4
55°	4127.6	1847.0	381.6	473.0	700.5	809.7	732.7	594.8	446.1	404.9	408.5
57.5°	3335.7	1323.9	281.3	338.6	496.2	593.0	661.1	585.8	401.3	344.0	345.8
60°	2065.6	750.6	206.0	231.1	306.3	360.1	535.7	544.6	358.3	290.2	286.6
62.5°	1060.6	370.8	159.4	163.0	188.1	211.4	367.3	456.8	324.3	275.9	275.9
65°	354.7	182.7	139.7	125.4	125.4	130.8	222.1	317.1	274.1	231.1	231.1
67.5°	152.3	136.2	121.8	109.3	100.3	94.9	125.4	184.5	204.2	175.6	168.4
70°	118.2	114.7	105.7	91.4	78.8	71.7	73.5	94.9	116.4	112.9	109.3
72.5°	87.8	87.8	84.2	71.7	60.9	52.0	48.4	50.2	55.5	57.3	59.1
75°	60.9	62.7	62.7	55.5	44.8	37.6	32.2	26.9	21.5	17.9	16.1
77.5°	41.2	43.0	46.6	41.2	34.0	25.1	19.7	14.3	9.0	3.6	3.6
80°	35.8	41.2	44.8	41.2	35.8	26.9	19.7	10.7	5.4	0.0	0.0
82.5°	37.6	41.2	46.6	39.4	34.0	25.1	19.7	12.5	5.4	1.8	0.0
85°	9.0	9.0	10.7	12.5	16.1	17.9	14.3	9.0	5.4	1.8	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)