

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: P451353

Luminaire Tested: **GALN-SA2B-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7841 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

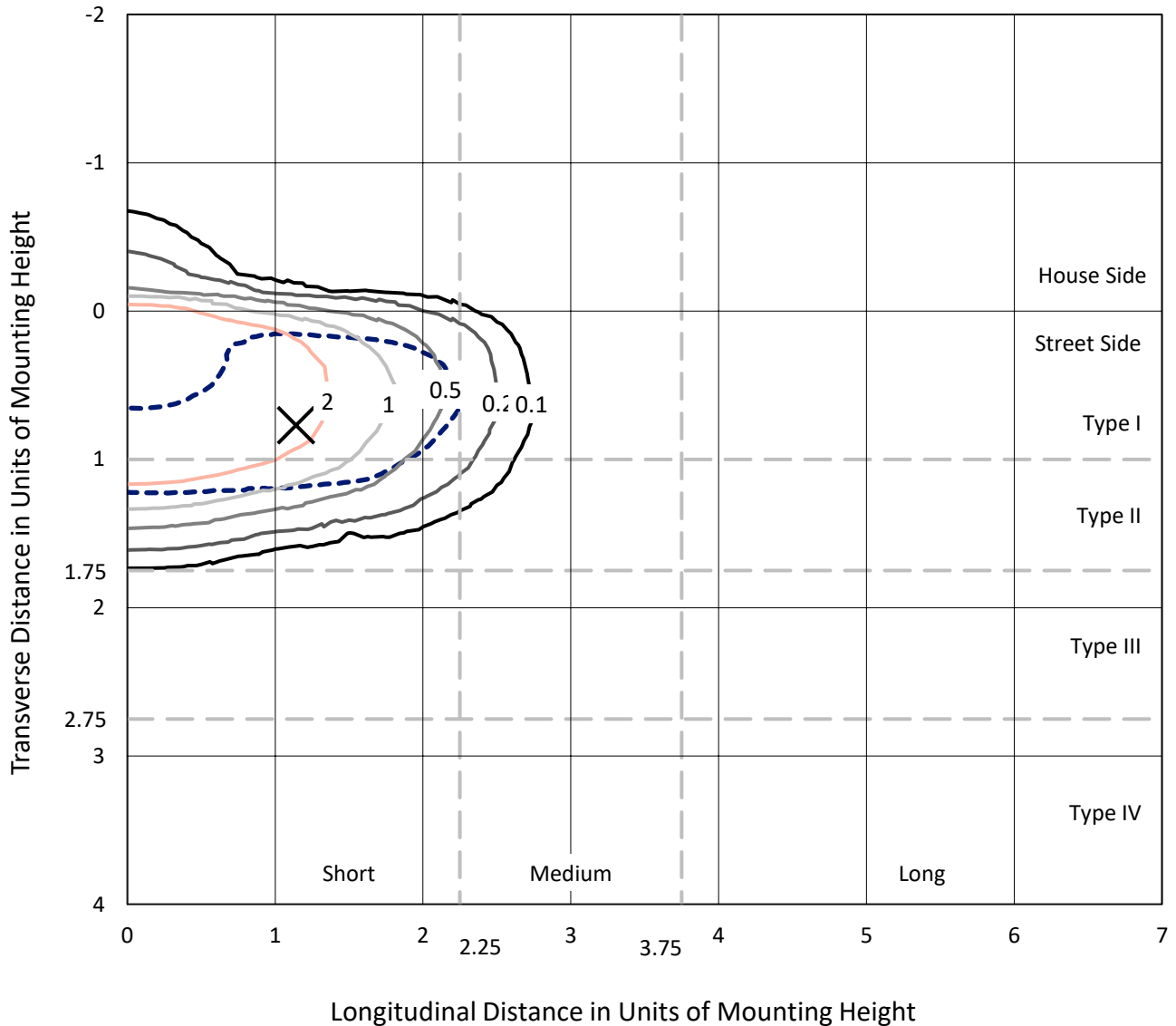
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

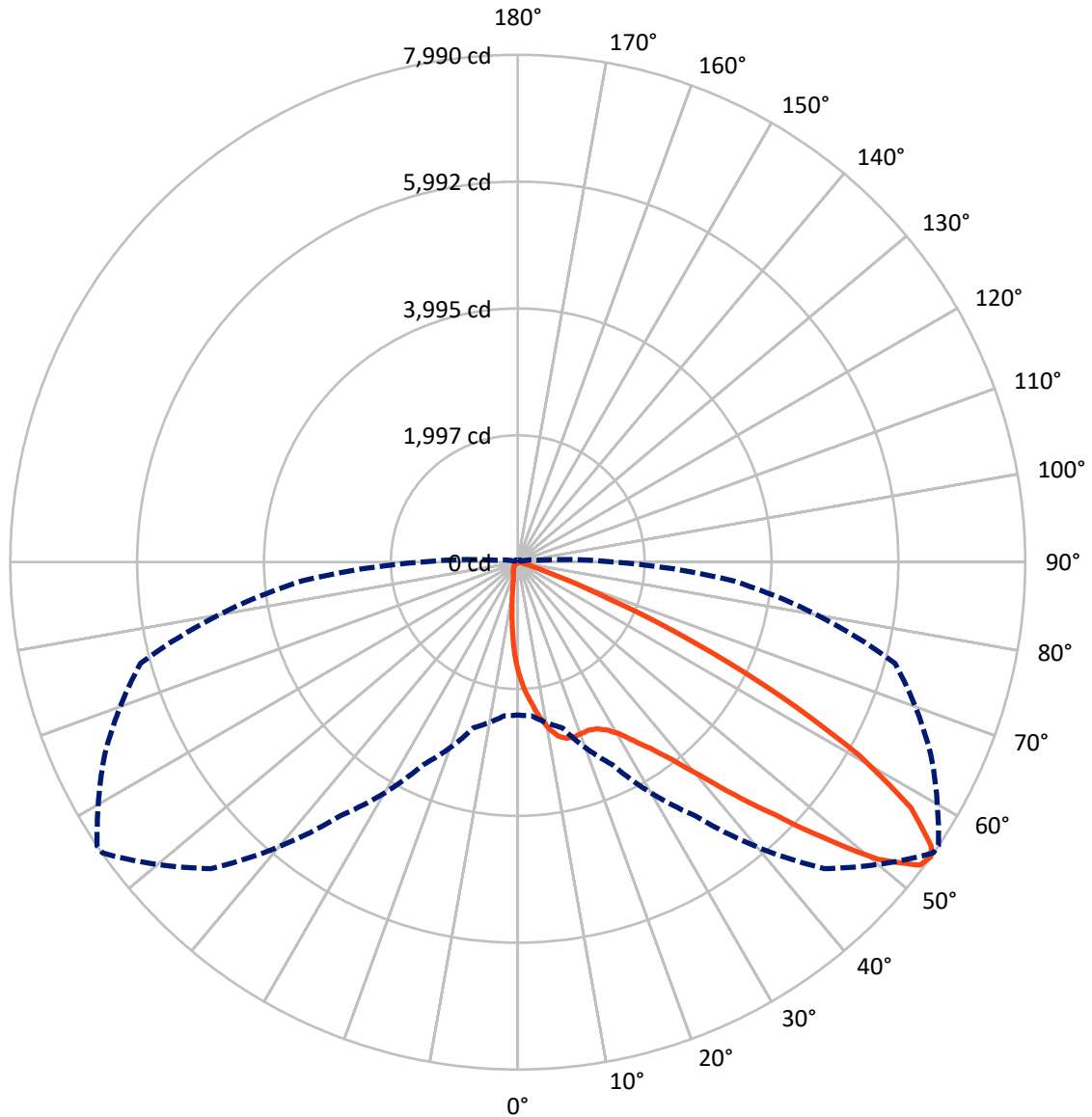
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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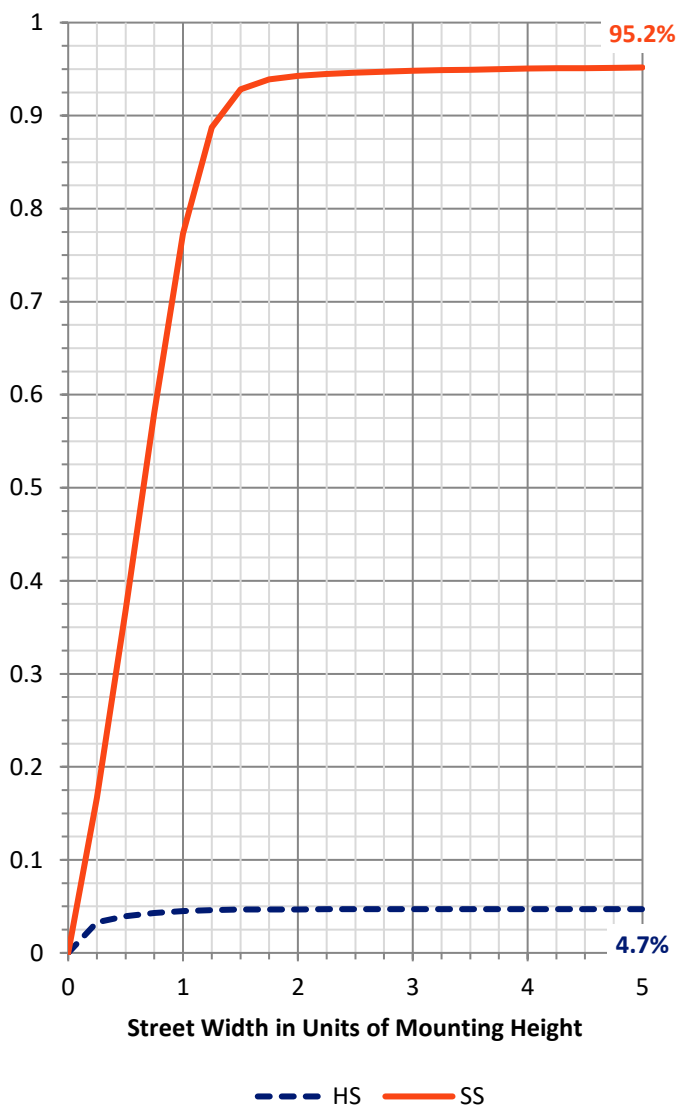
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	370.8	0.0	370.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	7470.2	0.0	7470.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	7841.0	0.0	7841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	2.0
10°-20°	416.1	5.3
20°-30°	720.7	9.2
30°-40°	1244.1	15.9
40°-50°	2117.5	27.0
50°-60°	2095.5	26.7
60°-70°	956.4	12.2
70°-80°	122.8	1.6
80°-90°	13.8	0.2
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°	7841.0	100.0
0°-180°	7841.0	100.0

**Coefficient of Utilization**

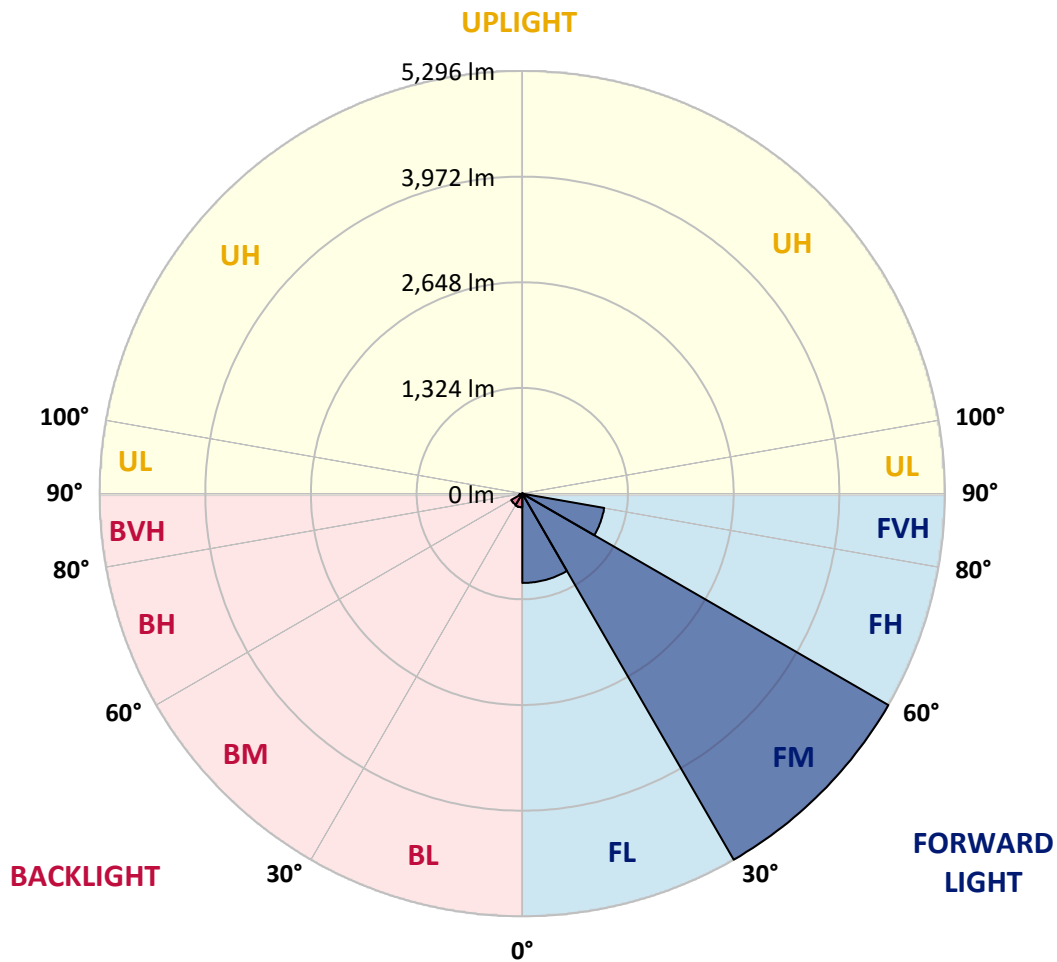


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.3	14.3			
FM (30°-60°)	5296.4	67.5			
FH (60°-80°)	1042.1	13.3			G1/1800
FVH (80°-90°)	12.4	0.2			G1/100
BL (0°-30°)	171.5	2.2	B1/500		
BM (30°-60°)	160.7	2.0	B0/220		
BH (60°-80°)	37.1	0.5	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	2213.9	2198.6	2177.4	2161.0	2122.4	2066.9	2008.1	2008.1	1951.5	1872.7	1792.3
5°	2553.6	2543.5	2522.9	2480.5	2437.2	2359.4	2241.4	2220.8	2119.8	1976.9	1826.7
7.5°	2691.6	2696.4	2697.4	2686.3	2665.7	2589.0	2472.1	2457.8	2296.5	2104.9	1871.7
10°	2559.4	2582.6	2605.4	2651.4	2716.5	2735.0	2668.9	2654.1	2495.4	2234.6	1920.3
12.5°	2362.6	2375.3	2388.0	2460.4	2591.1	2740.8	2810.1	2809.6	2675.2	2363.6	1982.2
15°	2271.1	2282.2	2283.2	2315.5	2428.7	2646.7	2870.4	2878.4	2850.9	2522.9	2048.9
17.5°	2290.1	2299.1	2291.7	2299.6	2358.9	2543.0	2863.6	2890.0	2993.2	2675.8	2109.2
20°	2414.4	2431.9	2403.3	2381.1	2399.1	2515.5	2840.3	2877.3	3093.7	2824.9	2164.2
22.5°	2637.7	2647.2	2611.2	2550.4	2518.6	2573.1	2833.9	2870.4	3179.4	2947.1	2195.9
25°	2885.8	2882.6	2842.9	2774.7	2708.0	2689.5	2875.7	2908.5	3250.3	3057.2	2205.5
27.5°	3133.9	3143.4	3076.7	2992.1	2912.2	2864.1	2969.4	2993.7	3330.1	3182.6	2217.1
30°	3422.2	3406.9	3341.3	3244.4	3152.9	3085.7	3120.1	3127.0	3440.2	3348.7	2247.8
32.5°	3797.3	3754.9	3681.4	3512.1	3446.5	3332.8	3341.3	3349.7	3574.0	3513.2	2284.8
35°	4306.2	4304.1	4160.2	3932.2	3772.4	3631.2	3594.1	3601.0	3776.6	3757.6	2366.8
37.5°	4918.8	4927.2	4763.2	4533.7	4239.5	4015.2	3939.0	3940.1	4084.5	4095.1	2491.7
40°	5417.6	5439.9	5342.0	5187.0	4896.6	4545.8	4417.8	4406.2	4517.3	4504.0	2669.9
42.5°	5632.4	5653.0	5689.6	5743.5	5583.7	5294.4	4992.3	5008.2	5042.0	4949.5	2869.9
45°	5527.1	5559.9	5703.3	6036.6	6186.8	6089.5	5729.2	5673.7	5530.3	5433.5	3070.9
47.5°	5088.6	5168.5	5408.1	5963.1	6488.9	6817.9	6560.8	6487.3	6019.1	5786.9	3199.0
50°	4367.5	4372.3	4706.1	5415.5	6332.3	7277.7	7409.9	7354.9	6474.6	5985.3	3263.5
52.5°	3166.2	3270.4	3576.1	4397.7	5654.1	7207.8	7951.1	7928.3	6944.4	6086.8	3356.6
54°	2407.0	2427.1	2699.0	3514.2	4874.9	6824.3	7984.4	7989.7	7177.7	6148.2	3411.6
55°	1973.2	1925.1	2210.8	2993.7	4343.2	6485.2	7875.4	7900.8	7282.4	6179.9	3452.3
57.5°	935.3	935.8	1154.3	1579.1	2720.2	5035.7	7209.4	7299.3	7294.1	6234.4	3577.7
60°	473.5	476.6	524.8	729.0	1343.7	3347.6	5960.9	6175.2	6732.8	6242.4	3619.0
62.5°	331.2	327.5	319.5	350.7	565.5	1701.3	4437.9	4624.1	5720.2	5940.3	3487.8
65°	283.6	275.6	253.4	248.6	285.7	677.7	2764.1	3067.8	4367.5	5143.6	3114.3
67.5°	242.3	239.1	219.0	206.8	202.1	295.2	1426.2	1586.0	2985.2	3697.3	2358.9
70°	205.8	204.2	192.0	176.7	163.5	176.7	529.0	655.4	1663.8	1990.7	1113.0
72.5°	167.2	168.8	170.9	151.3	137.5	125.4	225.9	262.9	696.2	711.5	389.4
75°	146.5	144.9	144.9	131.7	114.8	93.1	124.3	133.8	213.2	197.9	90.5
77.5°	103.2	99.5	116.4	108.4	95.8	66.1	70.9	75.1	88.3	75.6	42.3
80°	71.4	71.4	74.6	97.3	86.2	48.1	43.4	46.6	52.4	45.0	24.3
82.5°	40.2	41.3	48.7	51.8	50.3	32.3	28.6	29.1	34.9	30.7	15.3
85°	4.8	7.9	28.0	27.5	20.6	14.3	15.9	16.4	21.7	19.0	9.0
87.5°	0.5	1.1	5.8	7.4	5.3	5.8	5.8	5.8	7.4	8.5	6.3
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°	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1748.9	1708.7	1613.0	1501.9	1431.0	1315.7	1218.3	1148.0	1130.5	1096.6	1106.7
5°	1746.8	1663.2	1468.0	1261.7	1041.6	877.6	755.4	659.2	616.8	588.8	569.2
7.5°	1747.9	1617.2	1304.0	975.5	712.6	551.8	438.6	379.8	340.7	324.3	326.4
10°	1751.0	1565.4	1113.6	722.6	480.9	356.6	287.3	259.2	246.0	243.9	243.3
12.5°	1758.4	1508.7	931.6	536.4	336.5	259.2	232.8	223.2	219.0	219.0	217.4
15°	1766.4	1446.3	780.3	398.9	259.2	222.7	210.5	205.8	203.1	203.1	202.6
17.5°	1766.4	1374.4	639.0	309.5	223.2	204.7	195.2	188.9	186.7	186.7	186.2
20°	1755.3	1290.8	513.7	249.2	202.6	187.8	178.3	171.4	168.8	167.7	167.2
22.5°	1716.7	1179.2	408.9	214.3	185.7	173.0	160.8	152.9	150.8	149.7	150.2
25°	1647.9	1053.3	323.8	188.3	170.3	155.0	144.4	138.6	136.5	136.5	137.0
27.5°	1577.0	921.5	256.6	168.8	151.8	138.1	129.6	125.9	125.4	127.0	127.5
30°	1511.4	789.3	207.9	152.9	135.4	123.8	118.0	116.9	116.9	117.4	118.0
32.5°	1438.4	673.4	174.0	139.1	122.2	112.2	109.0	109.0	110.0	110.0	111.1
35°	1392.4	574.0	152.9	125.9	112.2	103.7	101.6	102.1	103.7	105.8	106.9
37.5°	1367.5	494.6	139.1	115.3	102.6	96.8	94.7	95.8	99.5	103.2	103.7
40°	1369.6	434.8	128.0	106.3	95.2	88.9	87.3	90.5	94.2	97.9	98.4
42.5°	1392.9	390.4	117.4	95.8	88.9	79.9	79.4	82.5	84.1	87.8	88.3
45°	1420.4	358.1	106.3	84.6	77.2	69.3	69.8	72.5	74.6	80.4	81.5
47.5°	1428.9	335.9	93.6	71.9	63.5	60.8	61.4	63.0	67.2	72.5	73.0
50°	1438.4	322.2	81.5	60.8	54.0	53.4	54.0	55.0	57.7	59.8	59.2
52.5°	1479.1	321.6	71.4	52.9	46.0	47.1	47.6	47.1	45.0	41.8	40.7
54°	1517.2	323.2	66.7	49.2	42.3	43.9	43.4	40.7	35.4	32.3	30.7
55°	1547.9	324.8	64.0	46.6	40.2	40.7	41.3	36.0	29.1	25.9	24.9
57.5°	1608.2	321.1	57.7	40.7	35.4	33.3	32.8	23.8	15.9	13.8	12.7
60°	1578.1	289.9	52.4	34.9	30.2	27.0	22.2	13.2	7.9	5.8	5.8
62.5°	1459.6	246.0	46.6	28.6	24.9	20.6	11.6	7.4	3.7	2.1	1.6
65°	1305.6	206.8	41.8	22.7	19.6	13.2	6.3	4.8	1.6	0.0	0.0
67.5°	970.7	153.4	35.4	18.0	14.8	8.5	4.2	2.6	0.5	0.0	0.0
70°	449.7	93.6	30.2	13.8	10.6	6.3	3.2	1.6	0.0	0.0	0.0
72.5°	129.1	58.7	24.9	10.1	7.4	5.3	2.6	1.1	0.5	0.0	0.0
75°	45.0	47.1	18.5	7.4	5.8	3.7	2.1	1.1	0.5	0.0	0.0
77.5°	27.0	38.1	11.6	6.3	4.8	3.2	2.1	1.1	0.5	0.5	0.0
80°	15.3	25.4	7.4	5.3	4.2	2.6	1.6	1.1	0.5	0.5	0.0
82.5°	8.5	12.2	5.8	4.8	3.7	2.6	1.6	1.1	0.5	0.5	0.5
85°	6.9	6.3	4.8	4.2	3.2	2.1	1.6	0.5	0.0	0.0	0.0
87.5°	5.3	4.2	4.2	4.2	3.2	2.1	1.6	0.5	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)