

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: P647814

Luminaire Tested: **GALN-SA3A-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647814  
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-SA3A-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA 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: 8757.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

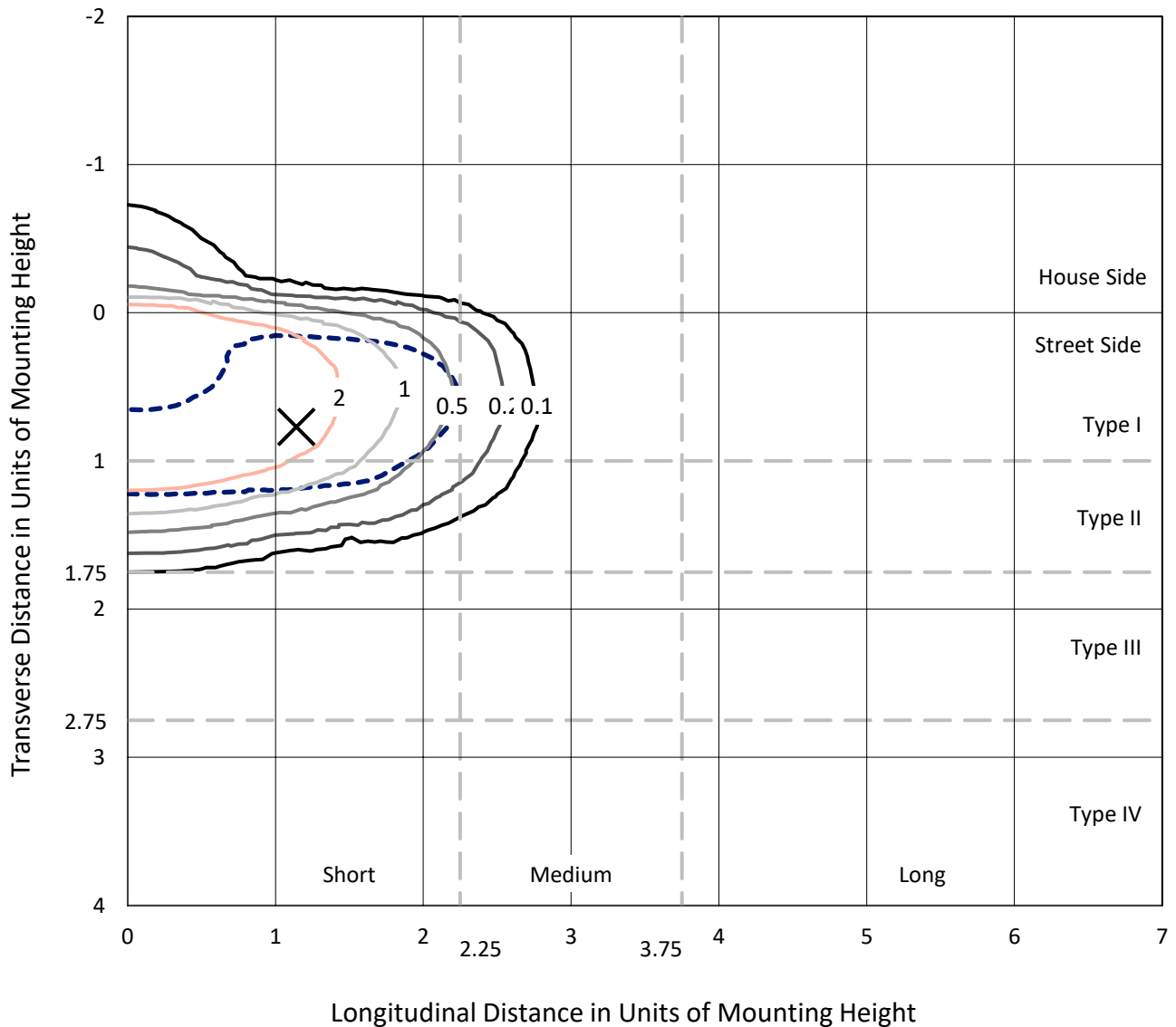
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

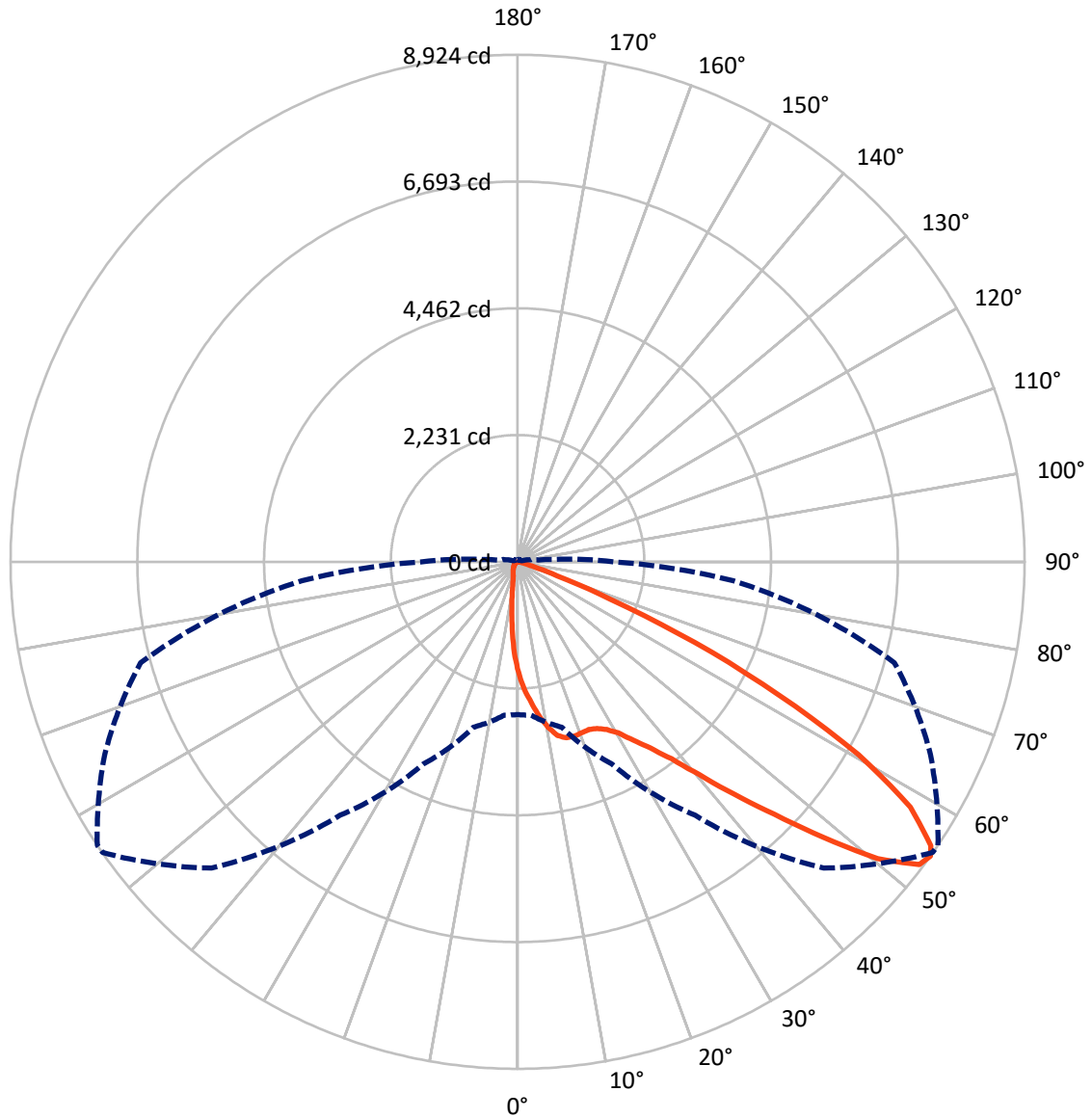
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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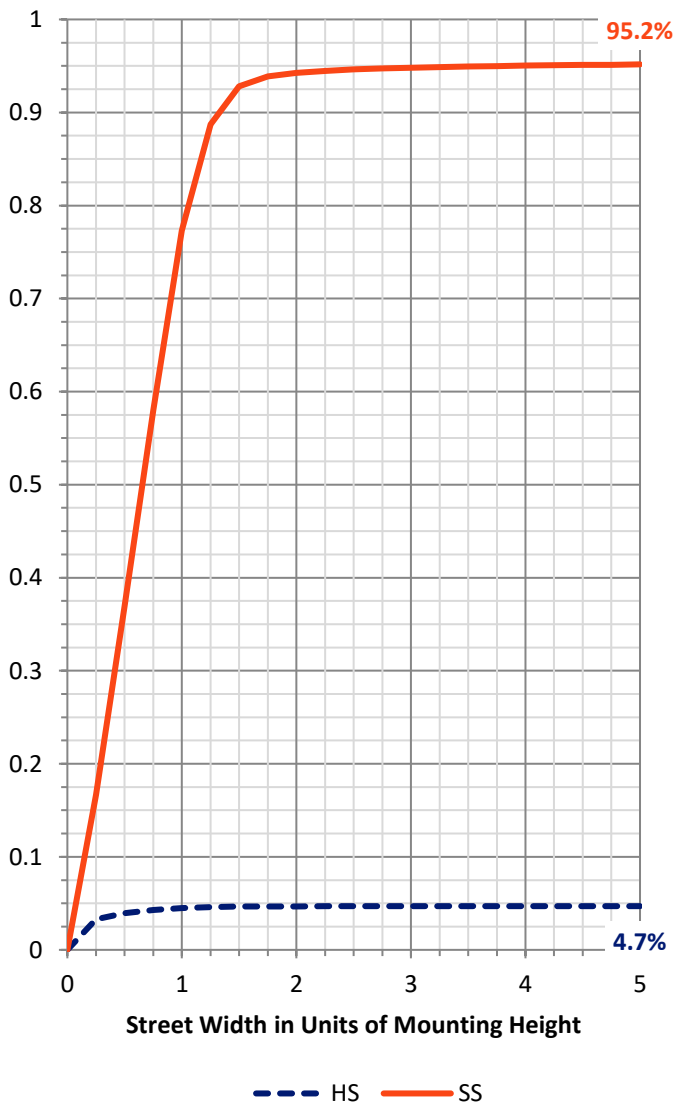
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	414.1	0.0	414.1
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	8343.7	0.0	8343.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	8757.9	0.0	8757.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	2.0
10°-20°	464.8	5.3
20°-30°	805.0	9.2
30°-40°	1389.6	15.9
40°-50°	2365.1	27.0
50°-60°	2340.5	26.7
60°-70°	1068.3	12.2
70°-80°	137.2	1.6
80°-90°	15.5	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°	8757.9	100.0
0°-180°	8757.9	100.0

**Coefficient of Utilization**

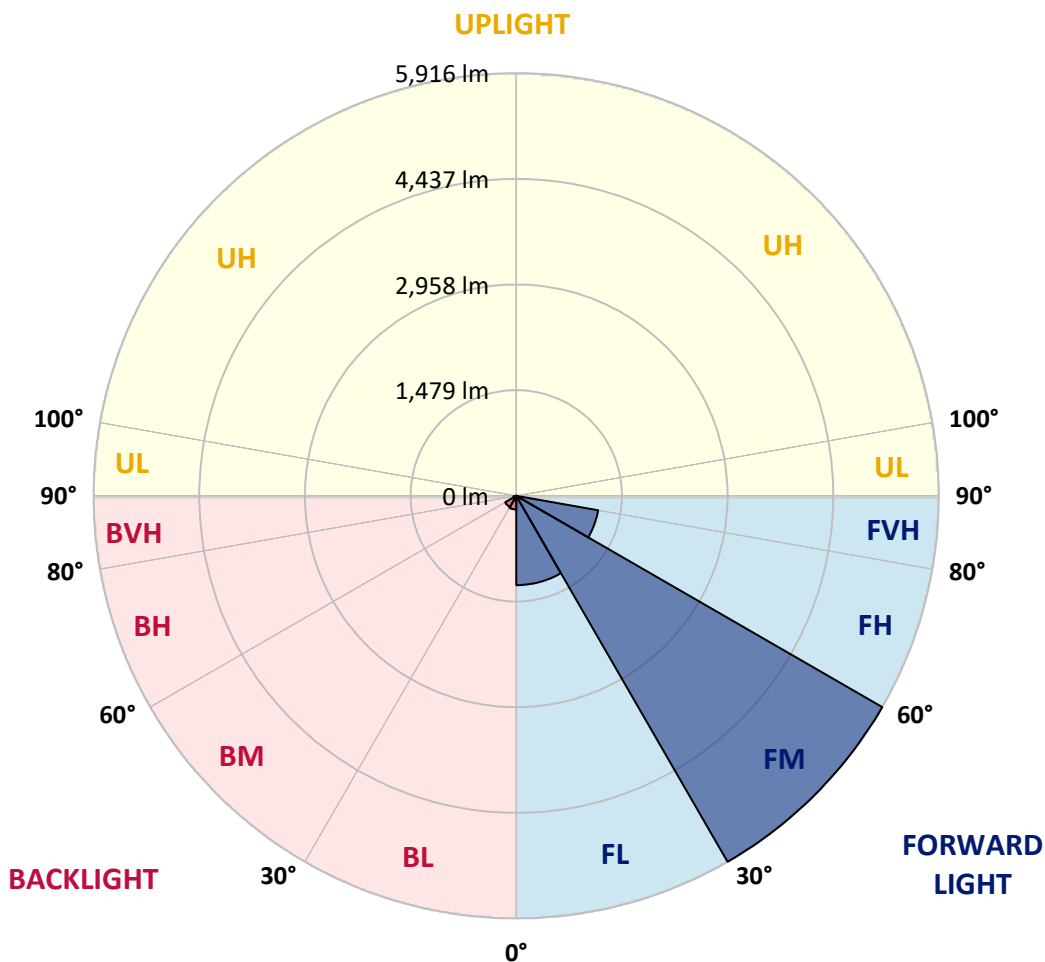


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.2	14.3			
FM (30°-60°)	5915.7	67.5			
FH (60°-80°)	1164.0	13.3			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	191.5	2.2	B1/500		
BM (30°-60°)	179.5	2.0	B0/220		
BH (60°-80°)	41.5	0.5	B0/110		G0/110
BVH (80°-90°)	1.7	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°	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8
2.5°	2472.8	2455.6	2432.0	2413.7	2370.6	2308.5	2243.0	2243.0	2179.7	2091.7	2001.9
5°	2852.2	2840.9	2817.9	2770.6	2722.2	2635.3	2503.6	2480.5	2367.6	2208.1	2040.3
7.5°	3006.3	3011.7	3012.8	3000.5	2977.4	2891.7	2761.2	2745.2	2565.0	2351.1	2090.5
10°	2858.7	2884.7	2910.0	2961.5	3034.1	3054.8	2981.0	2964.4	2787.2	2495.8	2144.9
12.5°	2638.9	2653.0	2667.2	2748.2	2894.1	3061.3	3138.7	3138.1	2988.0	2640.0	2214.0
15°	2536.6	2549.1	2550.2	2586.2	2712.7	2956.1	3206.1	3214.9	3184.2	2817.9	2288.5
17.5°	2557.9	2567.9	2559.6	2568.6	2634.7	2840.3	3198.4	3227.9	3343.2	2988.6	2355.8
20°	2696.7	2716.2	2684.4	2659.5	2679.6	2809.6	3172.4	3213.7	3455.5	3155.3	2417.3
22.5°	2946.1	2956.8	2916.5	2848.6	2813.2	2874.0	3165.3	3206.1	3551.1	3291.7	2452.7
25°	3223.2	3219.7	3175.4	3099.1	3024.7	3004.0	3212.0	3248.6	3630.3	3414.7	2463.3
27.5°	3500.3	3511.0	3436.5	3342.0	3252.7	3198.9	3316.6	3343.7	3719.6	3554.7	2476.3
30°	3822.4	3805.2	3731.9	3623.8	3521.6	3446.5	3485.0	3492.6	3842.4	3740.2	2510.6
32.5°	4241.3	4194.0	4111.8	3922.8	3849.5	3722.5	3731.9	3741.4	3992.0	3924.0	2552.0
35°	4809.7	4807.3	4646.6	4391.9	4213.5	4055.8	4014.4	4022.0	4218.3	4197.0	2643.6
37.5°	5493.9	5503.4	5320.3	5063.8	4735.3	4484.7	4399.6	4400.9	4562.1	4574.0	2783.0
40°	6051.1	6075.9	5966.6	5793.5	5469.1	5077.4	4934.4	4921.4	5045.5	5030.7	2982.1
42.5°	6291.0	6314.0	6354.8	6415.1	6236.7	5913.5	5576.1	5593.8	5631.6	5528.2	3205.4
45°	6173.4	6210.1	6370.2	6742.4	6910.3	6801.5	6399.1	6337.1	6177.0	6068.9	3430.0
47.5°	5683.6	5772.8	6040.5	6660.4	7247.7	7615.1	7328.0	7245.9	6722.9	6463.6	3573.0
50°	4878.2	4883.6	5256.4	6048.8	7072.8	8128.6	8276.4	8214.9	7231.7	6685.1	3645.1
52.5°	3536.3	3652.8	3994.3	4911.9	6315.2	8050.6	8880.8	8855.4	7756.4	6798.6	3749.1
54°	2688.5	2710.9	3014.6	3925.2	5444.9	7622.3	8918.1	8923.9	8017.0	6867.1	3810.5
55°	2204.0	2150.2	2469.3	3343.7	4851.1	7243.5	8796.3	8824.6	8134.0	6902.5	3856.0
57.5°	1044.7	1045.2	1289.3	1763.8	3038.3	5624.5	8052.5	8152.8	8147.0	6963.5	3996.0
60°	528.8	532.4	586.2	814.2	1500.9	3739.1	6657.9	6897.3	7520.0	6972.3	4042.2
62.5°	369.9	365.7	356.9	391.7	631.6	1900.3	4956.9	5164.8	6389.1	6634.9	3895.7
65°	316.7	307.9	283.1	277.7	319.1	756.9	3087.3	3426.5	4878.2	5745.0	3478.5
67.5°	270.6	267.1	244.6	231.1	225.7	329.7	1593.0	1771.5	3334.3	4129.6	2634.7
70°	229.8	228.1	214.5	197.3	182.6	197.3	590.9	732.1	1858.3	2223.5	1243.2
72.5°	186.7	188.5	190.8	169.0	153.6	140.0	252.3	293.6	777.6	794.7	434.9
75°	163.6	161.9	161.9	147.1	128.3	104.0	138.8	149.5	238.1	221.0	101.0
77.5°	115.3	111.1	130.0	121.1	107.0	73.8	79.2	83.9	98.7	84.5	47.3
80°	79.8	79.8	83.3	108.8	96.3	53.8	48.5	52.0	58.5	50.2	27.2
82.5°	44.9	46.1	54.3	57.9	56.1	36.0	31.9	32.5	39.0	34.3	17.1
85°	5.3	8.8	31.3	30.7	23.0	16.0	17.7	18.3	24.2	21.3	10.0
87.5°	0.6	1.2	6.5	8.3	5.9	6.5	6.5	6.5	8.3	9.5	7.1
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°	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8	1945.8
2.5°	1953.4	1908.5	1801.6	1677.5	1598.3	1469.5	1360.8	1282.2	1262.7	1224.8	1236.1
5°	1951.1	1857.7	1639.7	1409.2	1163.5	980.2	843.8	736.3	689.0	657.6	635.8
7.5°	1952.3	1806.3	1456.5	1089.5	795.9	616.3	489.8	424.2	380.5	362.2	364.6
10°	1955.8	1748.4	1243.8	807.1	537.1	398.2	320.9	289.6	274.8	272.4	271.8
12.5°	1964.1	1685.2	1040.5	599.2	375.8	289.6	260.0	249.4	244.6	244.6	242.9
15°	1972.9	1615.4	871.6	445.5	289.6	248.8	235.1	229.8	226.9	226.9	226.3
17.5°	1972.9	1535.1	713.8	345.7	249.4	228.6	218.1	210.9	208.6	208.6	208.0
20°	1960.6	1441.7	573.7	278.3	226.3	209.8	199.1	191.4	188.5	187.3	186.7
22.5°	1917.4	1317.1	456.7	239.3	207.4	193.2	179.6	170.8	168.4	167.2	167.8
25°	1840.6	1176.5	361.6	210.3	190.3	173.1	161.3	154.8	152.5	152.5	153.0
27.5°	1761.4	1029.3	286.6	188.5	169.6	154.3	144.8	140.6	140.0	141.8	142.4
30°	1688.1	881.6	232.2	170.8	151.3	138.3	131.8	130.6	130.6	131.2	131.8
32.5°	1606.6	752.1	194.4	155.4	136.5	125.3	121.8	121.8	122.9	122.9	124.1
35°	1555.2	641.1	170.8	140.6	125.3	115.8	113.5	114.0	115.8	118.2	119.3
37.5°	1527.4	552.5	155.4	128.8	114.6	108.1	105.8	107.0	111.1	115.3	115.8
40°	1529.7	485.7	143.0	118.8	106.3	99.3	97.5	101.0	105.2	109.3	109.9
42.5°	1555.7	436.1	131.2	107.0	99.3	89.2	88.6	92.2	94.0	98.1	98.7
45°	1586.5	400.0	118.8	94.5	86.3	77.4	78.0	81.0	83.3	89.8	91.0
47.5°	1595.9	375.2	104.6	80.3	70.9	68.0	68.5	70.3	75.0	81.0	81.5
50°	1606.6	359.9	91.0	68.0	60.3	59.7	60.3	61.5	64.4	66.8	66.2
52.5°	1652.1	359.2	79.8	59.1	51.4	52.6	53.2	52.6	50.2	46.7	45.5
54°	1694.6	361.0	74.5	55.0	47.3	49.0	48.5	45.5	39.6	36.0	34.3
55°	1728.9	362.8	71.5	52.0	44.9	45.5	46.1	40.2	32.5	29.0	27.8
57.5°	1796.3	358.7	64.4	45.5	39.6	37.2	36.6	26.6	17.7	15.3	14.2
60°	1762.6	323.8	58.5	39.0	33.7	30.1	24.8	14.8	8.8	6.5	6.5
62.5°	1630.2	274.8	52.0	31.9	27.8	23.0	13.0	8.3	4.1	2.3	1.8
65°	1458.3	231.1	46.7	25.4	21.8	14.8	7.1	5.3	1.8	0.0	0.0
67.5°	1084.2	171.3	39.6	20.1	16.5	9.5	4.7	3.0	0.6	0.0	0.0
70°	502.2	104.6	33.7	15.3	11.8	7.1	3.5	1.8	0.0	0.0	0.0
72.5°	144.2	65.6	27.8	11.2	8.3	5.9	3.0	1.2	0.6	0.0	0.0
75°	50.2	52.6	20.7	8.3	6.5	4.1	2.3	1.2	0.6	0.0	0.0
77.5°	30.1	42.5	13.0	7.1	5.3	3.5	2.3	1.2	0.6	0.6	0.0
80°	17.1	28.3	8.3	5.9	4.7	3.0	1.8	1.2	0.6	0.6	0.0
82.5°	9.5	13.6	6.5	5.3	4.1	3.0	1.8	1.2	0.6	0.6	0.6
85°	7.7	7.1	5.3	4.7	3.5	2.3	1.8	0.6	0.0	0.0	0.0
87.5°	5.9	4.7	4.7	4.7	3.5	2.3	1.8	0.6	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)