

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: P451614

Luminaire Tested: **GALN-SA2C-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451614  
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-SA2C-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA 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: 10549 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

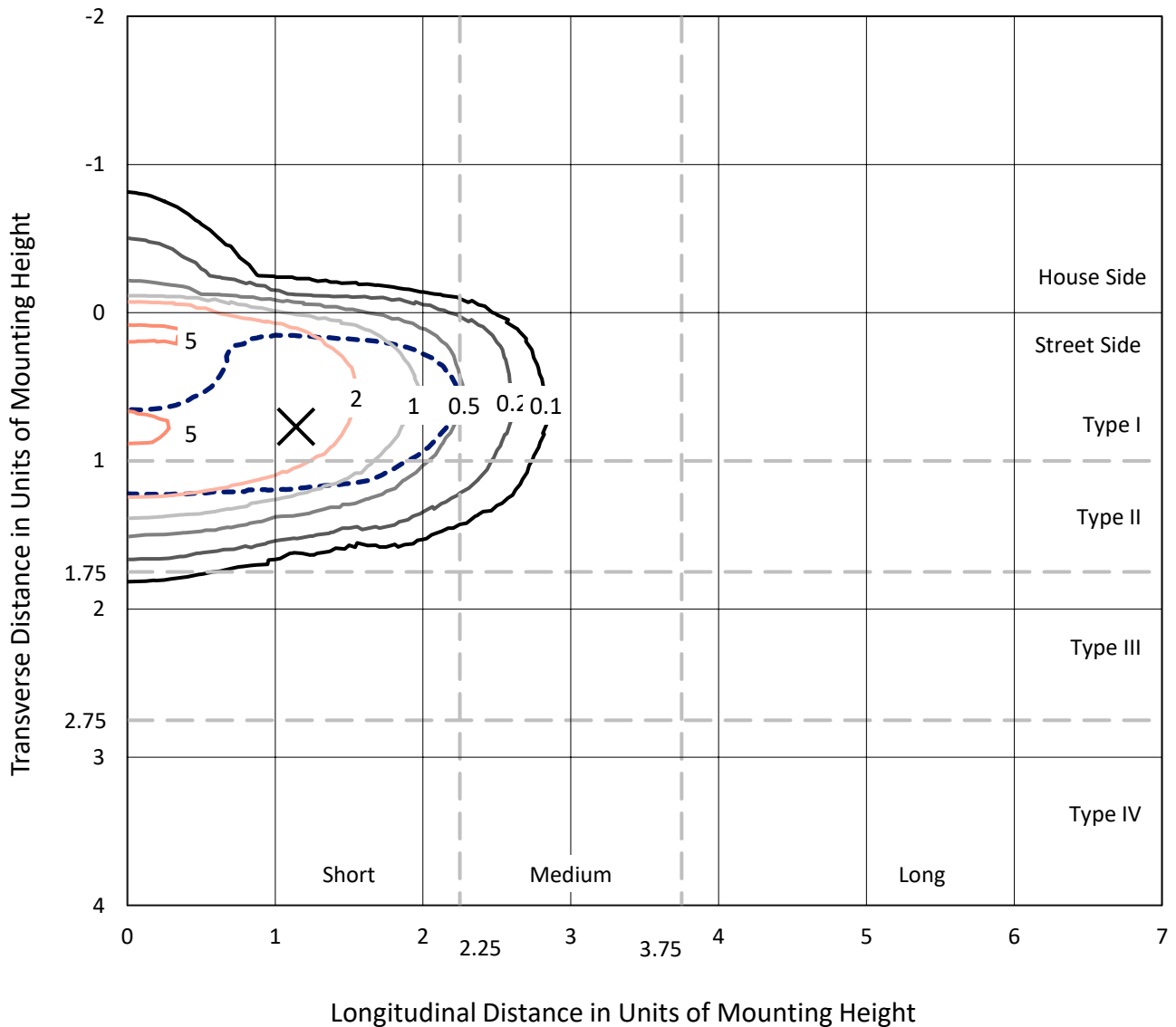
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

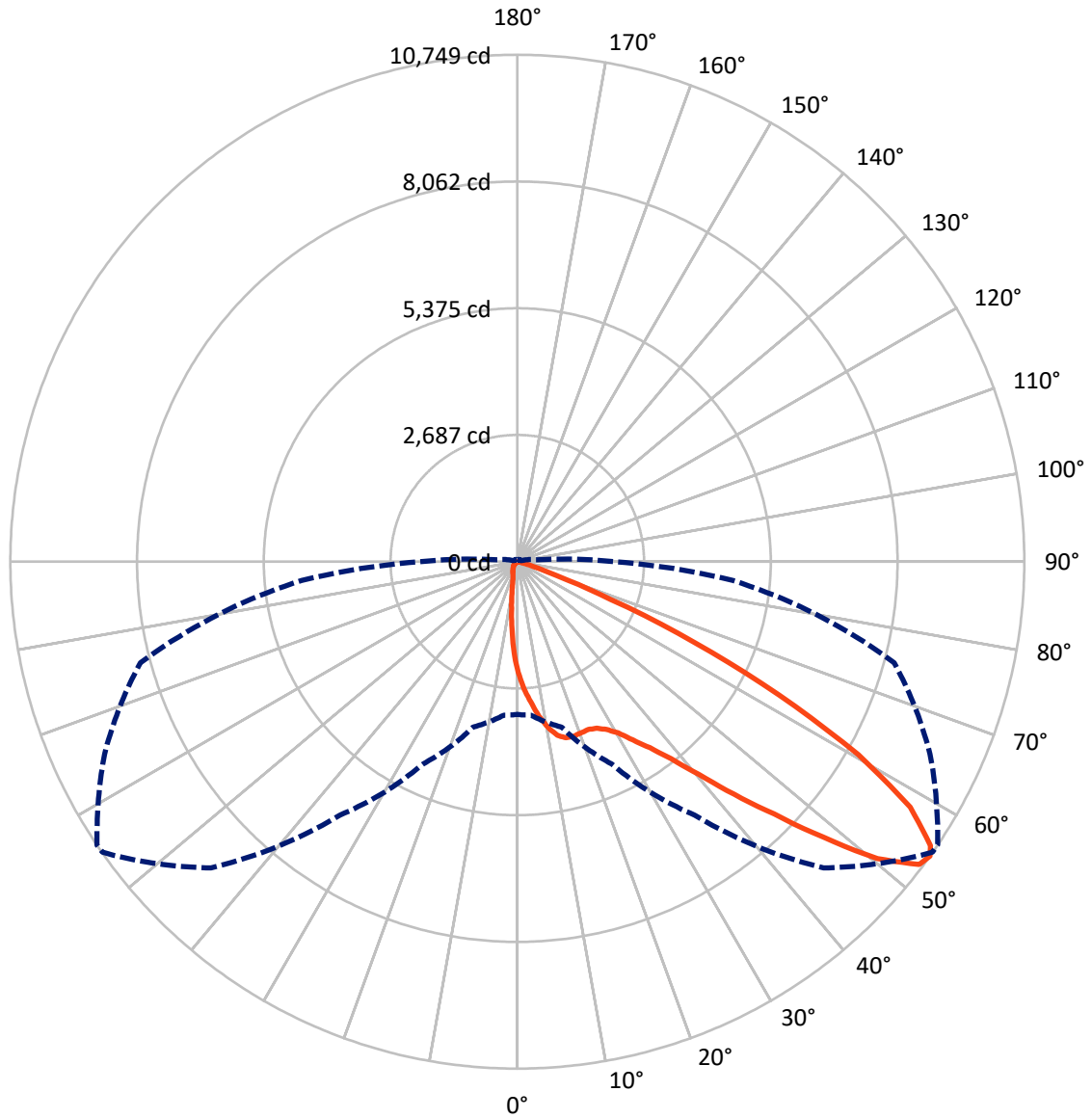
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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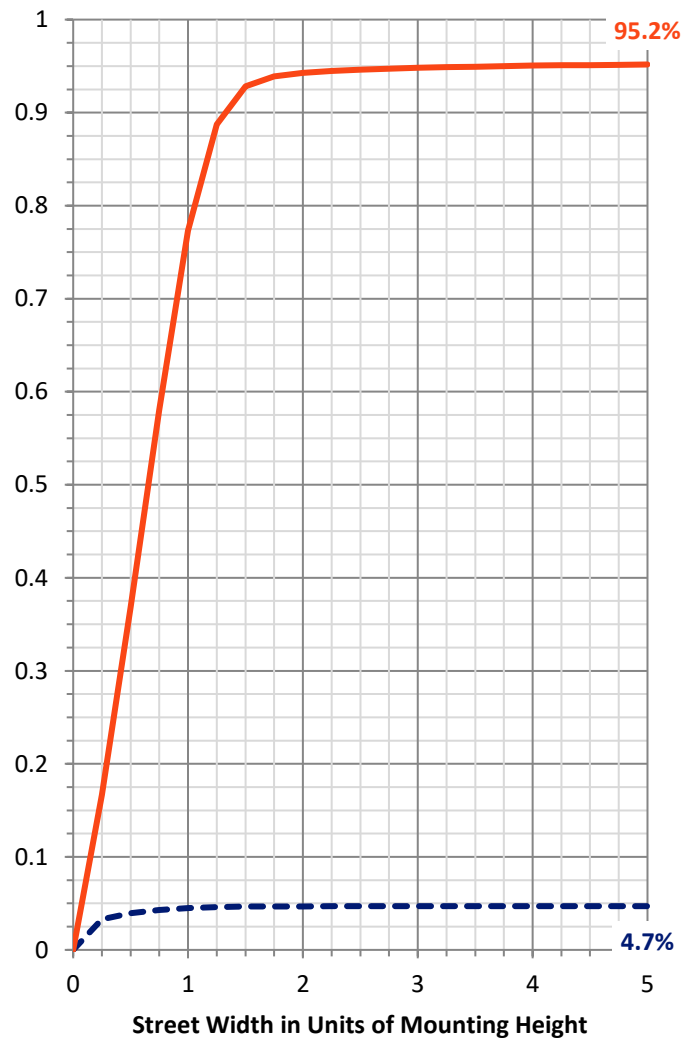
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	498.8	0.0	498.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	10050.2	0.0	10050.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	10549.0	0.0	10549.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	2.0
10°-20°	559.9	5.3
20°-30°	969.6	9.2
30°-40°	1673.7	15.9
40°-50°	2848.8	27.0
50°-60°	2819.2	26.7
60°-70°	1286.8	12.2
70°-80°	165.3	1.6
80°-90°	18.6	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°	10549.0	100.0
0°-180°	10549.0	100.0



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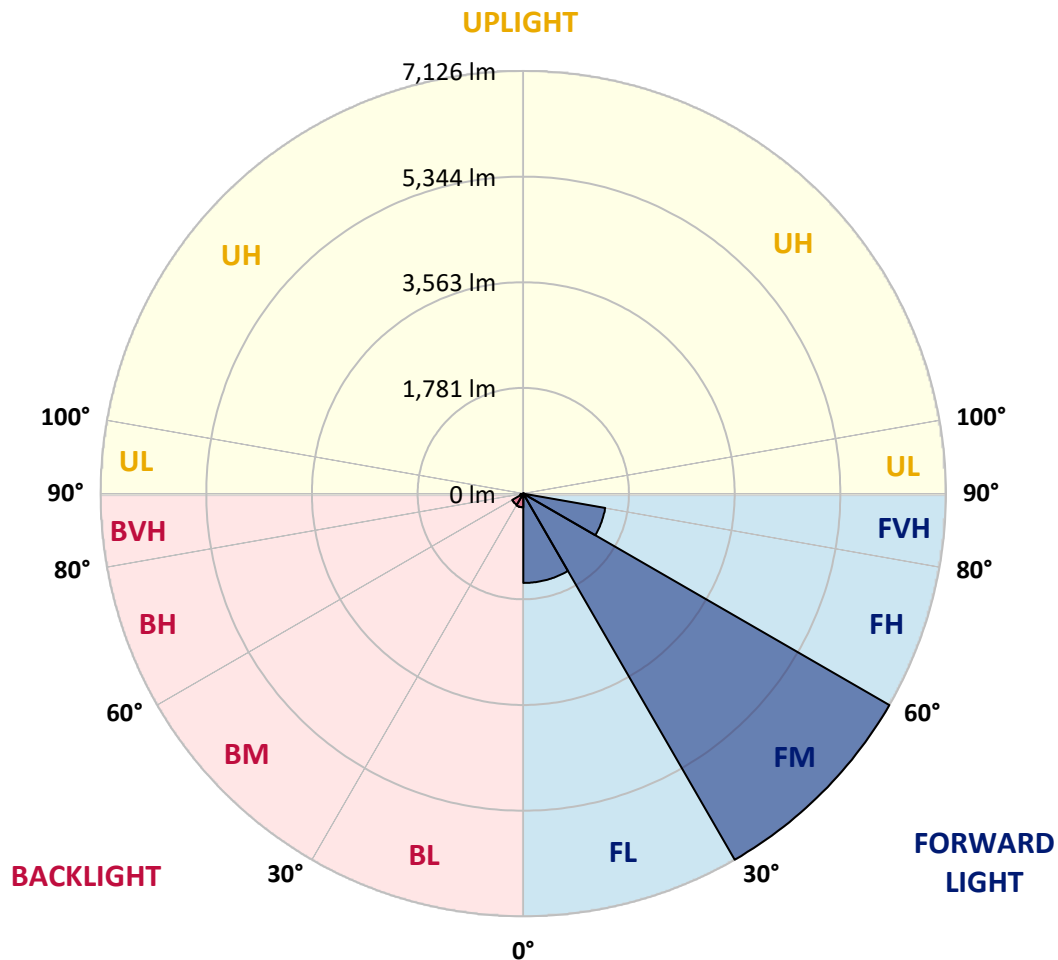
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.9	14.3			
FM (30°-60°)	7125.6	67.5			
FH (60°-80°)	1402.1	13.3			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	230.7	2.2	B1/500		
BM (30°-60°)	216.2	2.0	B0/220		
BH (60°-80°)	49.9	0.5	B0/110		G0/110
BVH (80°-90°)	2.0	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°	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7
2.5°	2978.5	2957.9	2929.4	2907.4	2855.4	2780.7	2701.7	2701.7	2625.5	2519.5	2411.3
5°	3435.5	3421.9	3394.2	3337.2	3278.9	3174.3	3015.5	2987.8	2851.9	2659.7	2457.6
7.5°	3621.2	3627.6	3629.0	3614.1	3586.3	3483.1	3325.9	3306.6	3089.6	2831.9	2518.1
10°	3443.3	3474.6	3505.2	3567.1	3654.7	3679.6	3590.6	3570.7	3357.2	3006.3	2583.5
12.5°	3178.5	3195.6	3212.7	3310.2	3486.0	3687.4	3780.6	3779.9	3599.2	3180.0	2666.8
15°	3055.4	3070.3	3071.8	3115.2	3267.5	3560.7	3861.8	3872.5	3835.4	3394.2	2756.5
17.5°	3081.0	3093.1	3083.2	3093.8	3173.5	3421.2	3852.5	3888.1	4026.9	3599.9	2837.6
20°	3248.3	3271.8	3233.3	3203.4	3227.6	3384.2	3821.2	3871.0	4162.1	3800.6	2911.6
22.5°	3548.6	3561.4	3513.0	3431.2	3388.5	3461.8	3812.7	3861.8	4277.4	3965.0	2954.3
25°	3882.4	3878.1	3824.8	3733.0	3643.3	3618.4	3868.9	3913.0	4372.8	4113.0	2967.1
27.5°	4216.2	4229.0	4139.3	4025.5	3918.0	3853.2	3994.9	4027.6	4480.3	4281.7	2982.8
30°	4604.1	4583.5	4495.2	4365.0	4241.8	4151.4	4197.7	4207.0	4628.3	4505.2	3024.1
32.5°	5108.7	5051.8	4952.8	4725.1	4636.8	4483.8	4495.2	4506.6	4808.4	4726.5	3073.9
35°	5793.4	5790.5	5596.9	5290.2	5075.3	4885.2	4835.4	4844.7	5080.9	5055.3	3184.2
37.5°	6617.5	6628.9	6408.3	6099.4	5703.7	5401.9	5299.4	5300.9	5495.2	5509.4	3352.2
40°	7288.7	7318.6	7186.9	6978.4	6587.7	6115.8	5943.5	5927.9	6077.4	6059.6	3592.0
42.5°	7577.7	7605.4	7654.5	7727.1	7512.2	7122.9	6716.5	6737.8	6783.4	6658.8	3861.1
45°	7436.0	7480.1	7673.0	8121.4	8323.5	8192.6	7707.9	7633.2	7440.3	7310.0	4131.5
47.5°	6846.0	6953.5	7275.9	8022.5	8729.9	9172.6	8826.7	8727.8	8097.9	7785.5	4303.8
50°	5875.9	5882.3	6331.4	7285.8	8519.3	9791.1	9969.0	9895.0	8710.7	8052.4	4390.6
52.5°	4259.6	4399.8	4811.2	5916.5	7606.8	9697.1	10697.1	10666.5	9342.7	8189.0	4515.8
54°	3238.3	3265.4	3631.2	4727.9	6558.5	9181.2	10741.9	10749.1	9656.6	8271.6	4589.9
55°	2654.7	2589.9	2974.3	4027.6	5843.2	8724.9	10595.3	10629.5	9797.5	8314.3	4644.7
57.5°	1258.3	1259.0	1553.0	2124.5	3659.6	6774.8	9699.3	9820.3	9813.2	8387.6	4813.3
60°	637.0	641.3	706.0	980.7	1807.8	4503.7	8019.6	8307.9	9058.0	8398.3	4868.9
62.5°	445.5	440.6	429.9	471.9	760.8	2288.9	5970.6	6221.1	7695.8	7991.9	4692.4
65°	381.5	370.8	340.9	334.5	384.3	911.7	3718.7	4127.2	5875.9	6920.0	4189.9
67.5°	326.0	321.7	294.7	278.3	271.9	397.1	1918.8	2133.7	4016.2	4974.2	3173.5
70°	276.9	274.7	258.4	237.7	219.9	237.7	711.7	881.8	2238.4	2678.2	1497.5
72.5°	224.9	227.0	229.9	203.6	185.0	168.7	303.9	353.7	936.6	957.3	523.8
75°	197.1	195.0	195.0	177.2	154.4	125.3	167.3	180.1	286.8	266.2	121.7
77.5°	138.8	133.8	156.6	145.9	128.8	89.0	95.4	101.1	118.9	101.8	56.9
80°	96.1	96.1	100.4	131.0	116.0	64.8	58.4	62.6	70.5	60.5	32.7
82.5°	54.1	55.5	65.5	69.7	67.6	43.4	38.4	39.1	47.0	41.3	20.6
85°	6.4	10.7	37.7	37.0	27.8	19.2	21.4	22.1	29.2	25.6	12.1
87.5°	0.7	1.4	7.8	10.0	7.1	7.8	7.8	7.8	10.0	11.4	8.5
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°	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7	2343.7
2.5°	2352.9	2298.8	2170.0	2020.6	1925.2	1770.0	1639.1	1544.4	1520.9	1475.4	1488.9
5°	2350.1	2237.6	1975.0	1697.4	1401.4	1180.7	1016.3	886.8	829.9	792.1	765.8
7.5°	2351.5	2175.7	1754.4	1312.4	958.7	742.3	590.0	511.0	458.3	436.3	439.1
10°	2355.8	2106.0	1498.2	972.2	647.0	479.7	386.5	348.7	330.9	328.1	327.4
12.5°	2365.7	2029.8	1253.3	721.7	452.7	348.7	313.2	300.3	294.7	294.7	292.5
15°	2376.4	1945.8	1049.8	536.6	348.7	299.6	283.3	276.9	273.3	273.3	272.6
17.5°	2376.4	1849.0	859.8	416.4	300.3	275.4	262.6	254.1	251.2	251.2	250.5
20°	2361.5	1736.6	691.1	335.2	272.6	252.7	239.8	230.6	227.0	225.6	224.9
22.5°	2309.5	1586.4	550.2	288.2	249.8	232.7	216.4	205.7	202.8	201.4	202.1
25°	2217.0	1417.0	435.6	253.4	229.2	208.5	194.3	186.5	183.6	183.6	184.3
27.5°	2121.6	1239.8	345.2	227.0	204.3	185.8	174.4	169.4	168.7	170.8	171.5
30°	2033.4	1061.9	279.7	205.7	182.2	166.5	158.7	157.3	157.3	158.0	158.7
32.5°	1935.2	906.0	234.2	187.2	164.4	150.9	146.6	146.6	148.0	148.0	149.5
35°	1873.2	772.2	205.7	169.4	150.9	139.5	136.6	137.4	139.5	142.3	143.8
37.5°	1839.8	665.5	187.2	155.2	138.1	130.2	127.4	128.8	133.8	138.8	139.5
40°	1842.6	585.0	172.2	143.1	128.1	119.6	117.4	121.7	126.7	131.7	132.4
42.5°	1874.0	525.2	158.0	128.8	119.6	107.5	106.8	111.0	113.2	118.1	118.9
45°	1911.0	481.8	143.1	113.9	103.9	93.2	93.9	97.5	100.4	108.2	109.6
47.5°	1922.3	451.9	126.0	96.8	85.4	81.8	82.6	84.7	90.4	97.5	98.2
50°	1935.2	433.4	109.6	81.8	72.6	71.9	72.6	74.0	77.6	80.4	79.7
52.5°	1990.0	432.7	96.1	71.2	61.9	63.3	64.1	63.3	60.5	56.2	54.8
54°	2041.2	434.9	89.7	66.2	56.9	59.1	58.4	54.8	47.7	43.4	41.3
55°	2082.5	437.0	86.1	62.6	54.1	54.8	55.5	48.4	39.1	34.9	33.5
57.5°	2163.6	432.0	77.6	54.8	47.7	44.8	44.1	32.0	21.4	18.5	17.1
60°	2123.1	390.0	70.5	47.0	40.6	36.3	29.9	17.8	10.7	7.8	7.8
62.5°	1963.6	330.9	62.6	38.4	33.5	27.8	15.7	10.0	5.0	2.8	2.1
65°	1756.5	278.3	56.2	30.6	26.3	17.8	8.5	6.4	2.1	0.0	0.0
67.5°	1306.0	206.4	47.7	24.2	19.9	11.4	5.7	3.6	0.7	0.0	0.0
70°	605.0	126.0	40.6	18.5	14.2	8.5	4.3	2.1	0.0	0.0	0.0
72.5°	173.7	79.0	33.5	13.5	10.0	7.1	3.6	1.4	0.7	0.0	0.0
75°	60.5	63.3	24.9	10.0	7.8	5.0	2.8	1.4	0.7	0.0	0.0
77.5°	36.3	51.2	15.7	8.5	6.4	4.3	2.8	1.4	0.7	0.7	0.0
80°	20.6	34.2	10.0	7.1	5.7	3.6	2.1	1.4	0.7	0.7	0.0
82.5°	11.4	16.4	7.8	6.4	5.0	3.6	2.1	1.4	0.7	0.7	0.7
85°	9.3	8.5	6.4	5.7	4.3	2.8	2.1	0.7	0.0	0.0	0.0
87.5°	7.1	5.7	5.7	5.7	4.3	2.8	2.1	0.7	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)