

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P588605

Luminaire Tested: **GAT-CA6-LED-130-740-U-33-5-6-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GAT-CA6-LED-130-740-U-33-5-6-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5356 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

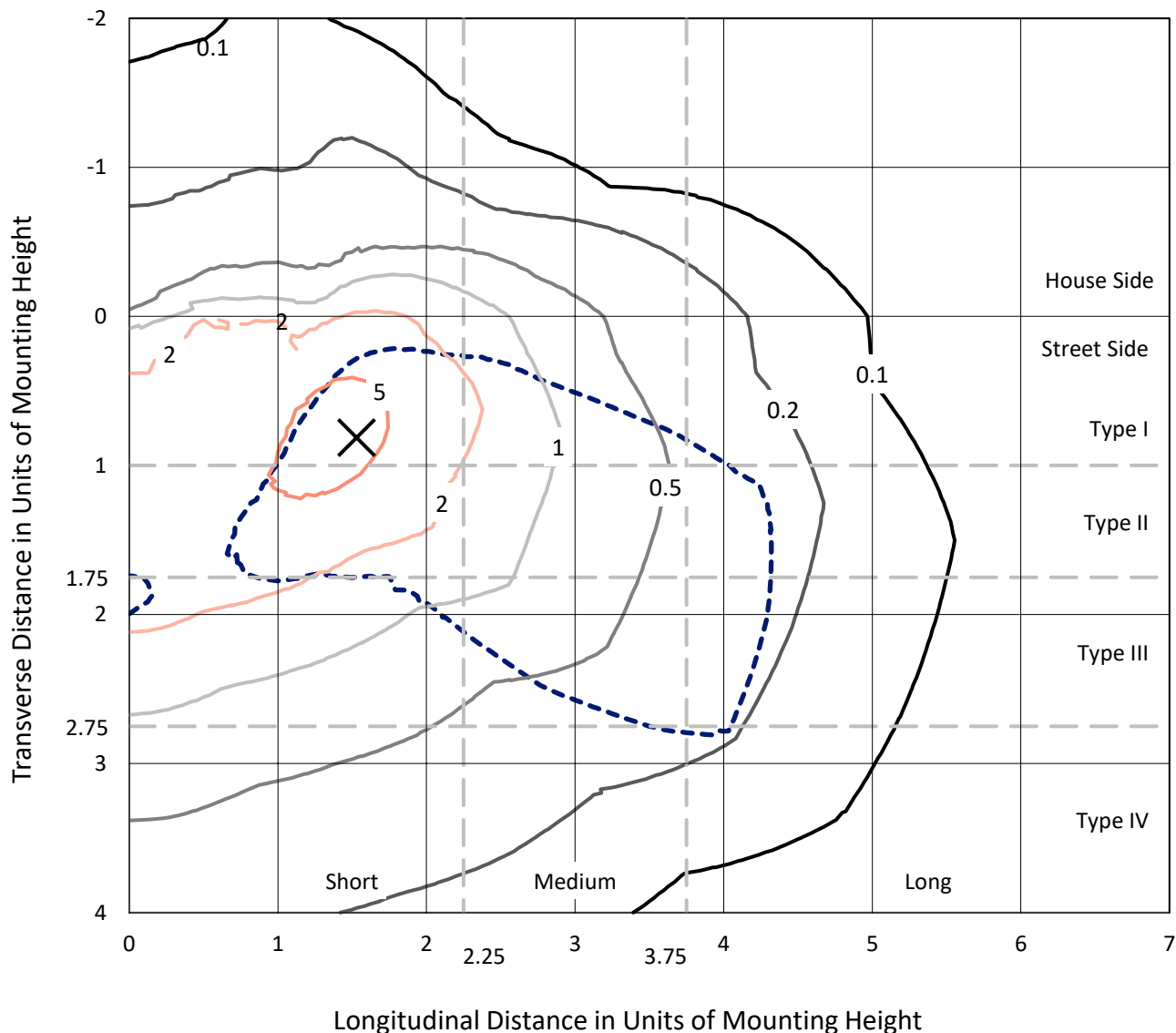
Input Watts (W): 62.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

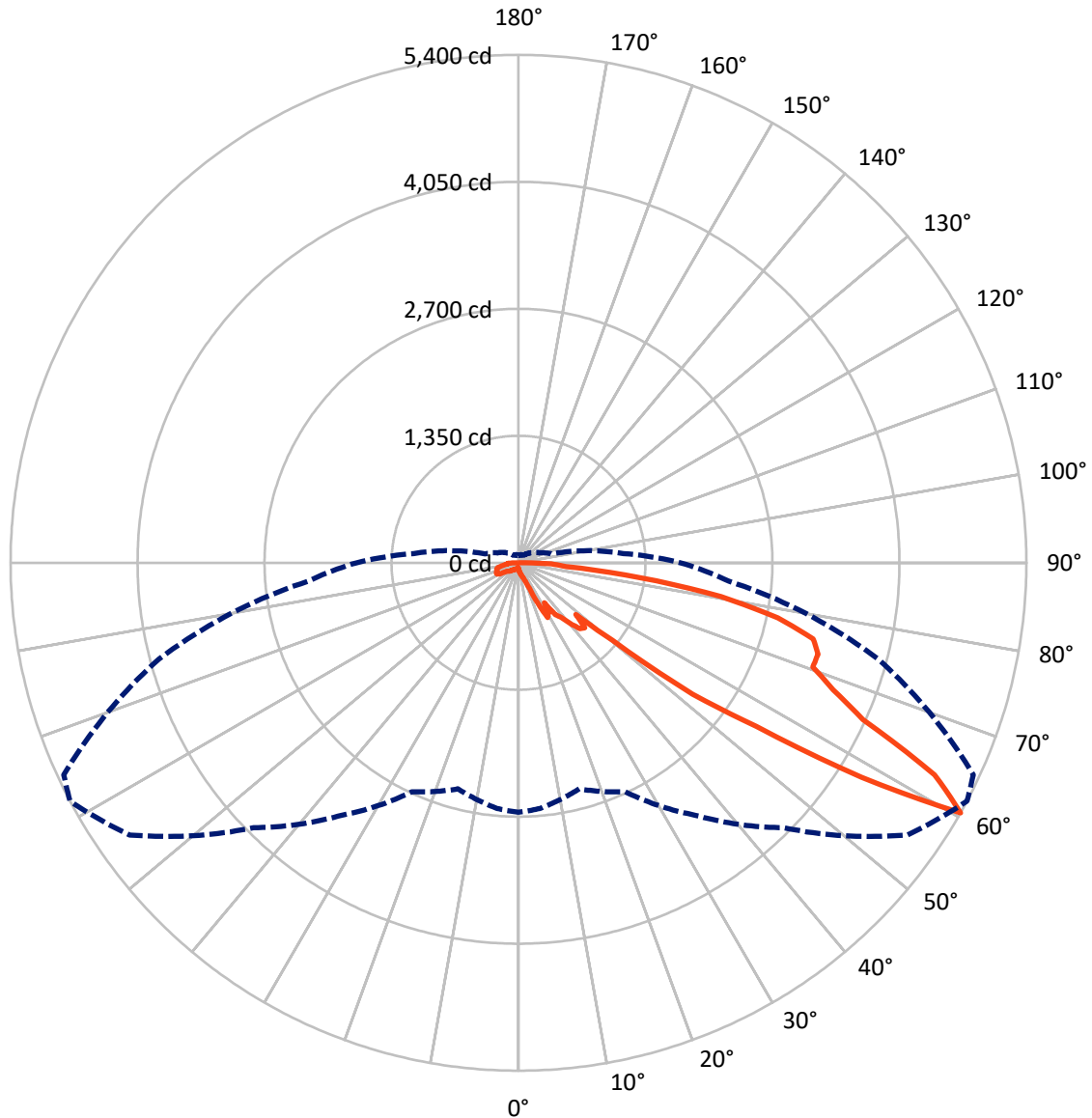
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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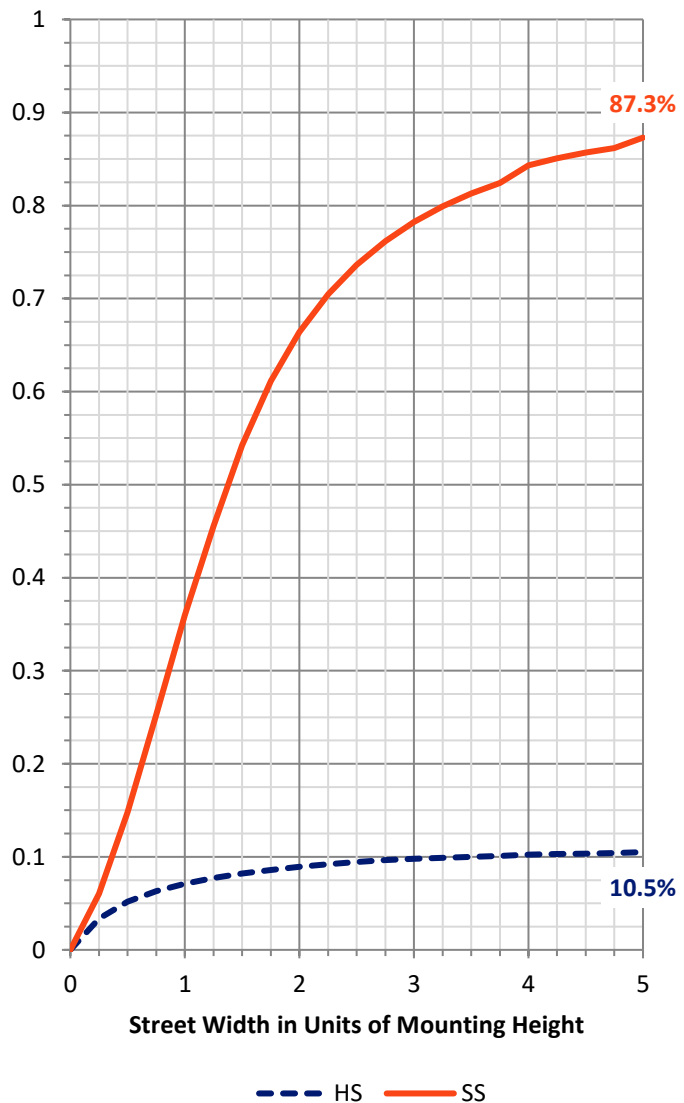
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	584.7	0.0	584.7
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4771.3	0.0	4771.3
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	5356.0	0.0	5356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	30.4	0.6
20°-30°	113.6	2.1
30°-40°	224.5	4.2
40°-50°	388.4	7.3
50°-60°	1150.0	21.5
60°-70°	1699.0	31.7
70°-80°	1362.7	25.4
80°-90°	380.3	7.1
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°	5356.0	100.0
0°-180°	5356.0	100.0

**Coefficient of Utilization**



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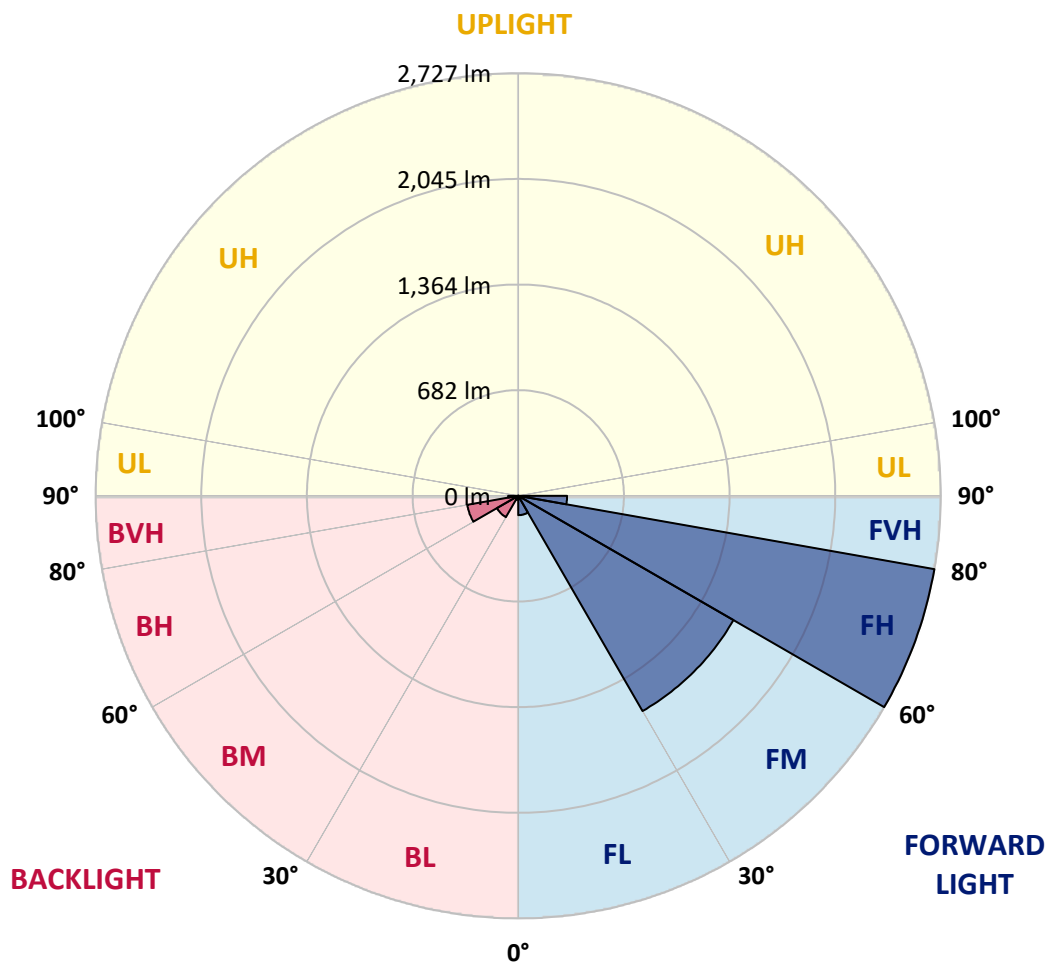
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.1	2.3			
FM (30°-60°)	1603.9	29.9			
FH (60°-80°)	2727.3	50.9			G2/5000
FVH (80°-90°)	315.1	5.9			G3/500
BL (0°-30°)	26.1	0.5	B0/110		
BM (30°-60°)	158.9	3.0	B0/220		
BH (60°-80°)	334.4	6.2	B1/500		G1/500
BVH (80°-90°)	65.2	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2.5°	89.7	88.3	85.4	82.5	81.0	79.6	78.1	76.7	75.2	70.9	68.0
5°	110.0	108.5	105.6	101.3	96.9	94.1	92.6	91.2	88.3	83.9	76.7
7.5°	124.4	124.4	124.4	121.5	117.2	111.4	107.1	104.2	101.3	95.5	88.3
10°	141.8	140.4	140.4	136.0	131.7	127.3	124.4	121.5	118.7	110.0	98.4
12.5°	154.8	153.4	151.9	147.6	146.1	141.8	140.4	134.6	131.7	121.5	107.1
15°	169.3	167.8	165.0	163.5	159.2	156.3	157.7	156.3	153.4	140.4	118.7
17.5°	185.2	183.8	182.3	182.3	182.3	179.4	178.0	175.1	172.2	151.9	125.9
20°	217.0	212.7	208.4	205.5	211.3	212.7	212.7	209.8	209.8	175.1	144.7
22.5°	276.4	272.0	269.1	247.4	256.1	296.6	309.7	295.2	298.1	230.1	159.2
25°	434.1	419.6	412.4	415.3	439.9	484.7	492.0	474.6	483.3	357.4	254.7
27.5°	507.9	510.8	567.2	625.1	632.3	655.5	694.5	658.4	639.6	457.2	318.3
30°	518.0	523.8	628.0	674.3	656.9	645.3	732.2	626.5	594.7	432.6	350.2
32.5°	477.5	503.5	615.0	633.8	593.3	529.6	593.3	505.0	494.9	376.2	332.8
35°	554.2	567.2	617.9	545.5	532.5	610.6	774.1	678.6	655.5	464.5	319.8
37.5°	671.4	667.1	764.0	820.4	800.2	720.6	806.0	733.6	714.8	584.6	457.2
40°	820.4	810.3	927.5	953.5	934.7	930.4	1043.3	849.4	813.2	652.6	542.6
42.5°	862.4	865.3	940.5	1004.2	989.7	988.3	1157.6	957.9	902.9	659.8	596.1
45°	881.2	897.1	1041.8	1002.7	1017.2	991.2	1141.7	986.8	940.5	733.6	701.8
47.5°	765.4	774.1	973.8	975.3	791.5	797.3	931.8	821.9	788.6	574.4	604.8
50°	988.3	986.8	1059.2	1001.3	917.4	1062.1	1334.1	1292.1	1267.5	862.4	671.4
52.5°	1429.6	1413.7	1523.7	1614.8	1597.4	1931.7	2336.8	2319.5	2231.2	1691.5	1060.6
55°	1881.1	1873.8	1995.4	2316.6	2471.4	2785.4	3179.0	3069.0	3035.7	2491.7	1666.9
57.5°	2252.9	2254.4	2293.4	2569.8	2885.2	3493.0	4174.5	4303.3	4235.3	3216.6	2025.7
60°	2653.7	2621.9	2488.8	2685.6	3275.9	3982.0	5045.6	5400.1	5335.0	3957.4	2242.8
62.5°	2681.2	2649.4	2422.2	2621.9	3073.4	3723.0	4678.0	4966.0	5041.2	4158.6	2307.9
65°	2559.7	2520.6	2239.9	2388.9	2572.7	2966.3	4136.9	4022.6	4131.1	4096.4	2306.5
67.5°	2425.1	2393.3	2129.9	2254.4	2396.2	2659.5	3893.8	3608.7	3720.1	3853.3	2415.0
70°	2289.1	2244.2	2031.5	2166.1	2341.2	2519.2	3585.6	3317.9	3288.9	3264.4	2306.5
72.5°	2265.9	2231.2	2005.5	2099.5	2297.8	2429.5	3534.9	3329.5	3300.5	3148.6	2109.7
75°	2089.4	2086.5	1869.5	1957.7	2196.5	2279.0	3394.6	3236.9	3176.1	2980.7	1856.5
77.5°	1687.2	1665.5	1507.7	1600.3	1815.9	1930.3	2921.4	2818.7	2784.0	2601.6	1535.2
80°	1134.4	1115.6	1047.6	1101.1	1302.3	1402.1	2192.2	2183.5	2157.4	2037.3	1134.4
82.5°	645.3	677.2	613.5	638.1	707.6	830.6	1363.0	1303.7	1284.9	1199.5	643.9
85°	363.2	356.0	331.4	328.5	383.4	377.7	588.9	505.0	525.2	454.3	306.8
87.5°	261.9	267.7	241.6	241.6	267.7	264.8	370.4	348.7	345.8	324.1	219.9
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°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2.5°	66.6	65.1	60.8	56.4	49.2	42.0	37.6	40.5	42.0	43.4	43.4
5°	72.3	69.5	60.8	52.1	43.4	36.2	30.4	27.5	27.5	28.9	28.9
7.5°	85.4	81.0	69.5	59.3	47.7	40.5	33.3	28.9	26.0	26.0	26.0
10°	92.6	88.3	75.2	63.7	52.1	43.4	36.2	30.4	27.5	26.0	26.0
12.5°	99.8	94.1	81.0	68.0	55.0	44.9	37.6	31.8	30.4	30.4	30.4
15°	108.5	99.8	83.9	69.5	56.4	46.3	37.6	33.3	31.8	31.8	31.8
17.5°	117.2	108.5	89.7	70.9	57.9	46.3	39.1	33.3	31.8	33.3	33.3
20°	131.7	115.8	89.7	72.3	57.9	46.3	39.1	33.3	33.3	33.3	33.3
22.5°	138.9	125.9	95.5	73.8	59.3	47.7	39.1	33.3	33.3	33.3	33.3
25°	214.2	159.2	99.8	76.7	60.8	49.2	39.1	34.7	33.3	34.7	34.7
27.5°	269.1	224.3	114.3	81.0	62.2	50.6	40.5	34.7	34.7	36.2	36.2
30°	299.5	256.1	124.4	88.3	66.6	52.1	42.0	36.2	36.2	36.2	36.2
32.5°	285.1	231.5	125.9	96.9	73.8	55.0	43.4	37.6	37.6	37.6	37.6
35°	247.4	191.0	123.0	98.4	78.1	60.8	46.3	39.1	39.1	37.6	37.6
37.5°	345.8	240.2	127.3	98.4	81.0	65.1	50.6	42.0	40.5	39.1	39.1
40°	409.5	267.7	140.4	105.6	81.0	66.6	53.5	46.3	43.4	42.0	40.5
42.5°	454.3	293.7	150.5	115.8	89.7	69.5	55.0	50.6	46.3	43.4	43.4
45°	519.5	311.1	163.5	127.3	98.4	76.7	59.3	52.1	50.6	47.7	46.3
47.5°	474.6	316.9	176.5	140.4	108.5	83.9	65.1	56.4	55.0	52.1	50.6
50°	487.6	308.2	180.9	149.0	118.7	89.7	70.9	62.2	59.3	56.4	56.4
52.5°	665.6	408.0	198.2	153.4	123.0	98.4	76.7	68.0	65.1	62.2	62.2
55°	1086.7	625.1	244.5	169.3	127.3	101.3	82.5	75.2	70.9	68.0	66.6
57.5°	1419.5	882.6	309.7	206.9	151.9	107.1	85.4	82.5	79.6	73.8	72.3
60°	1721.9	1118.5	364.6	248.9	191.0	138.9	98.4	91.2	89.7	81.0	78.1
62.5°	1967.9	1313.8	409.5	272.0	218.5	179.4	134.6	112.9	101.3	91.2	88.3
65°	2057.6	1379.0	426.9	276.4	225.7	199.7	169.3	153.4	120.1	104.2	101.3
67.5°	2092.3	1364.5	435.5	267.7	219.9	199.7	178.0	179.4	146.1	115.8	111.4
70°	2024.3	1308.1	431.2	259.0	211.3	193.9	173.6	167.8	151.9	124.4	118.7
72.5°	1870.9	1256.0	429.7	257.6	208.4	186.7	160.6	143.2	130.2	123.0	120.1
75°	1717.5	1221.2	424.0	256.1	204.0	176.5	146.1	124.4	107.1	108.5	111.4
77.5°	1458.5	1078.0	392.1	237.3	183.8	153.4	125.9	110.0	96.9	95.5	95.5
80°	1102.6	800.2	321.2	198.2	150.5	124.4	104.2	98.4	91.2	88.3	86.8
82.5°	610.6	421.1	206.9	147.6	118.7	96.9	88.3	88.3	83.9	79.6	79.6
85°	279.3	235.9	153.4	123.0	101.3	83.9	76.7	76.7	72.3	68.0	66.6
87.5°	217.0	186.7	130.2	114.3	98.4	82.5	73.8	73.8	69.5	66.6	66.6
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)