

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: P588615

Luminaire Tested: **GAT-CA6-LED-80-730-U-33-5-6-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588615  
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-80-730-U-33-5-6-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3617 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

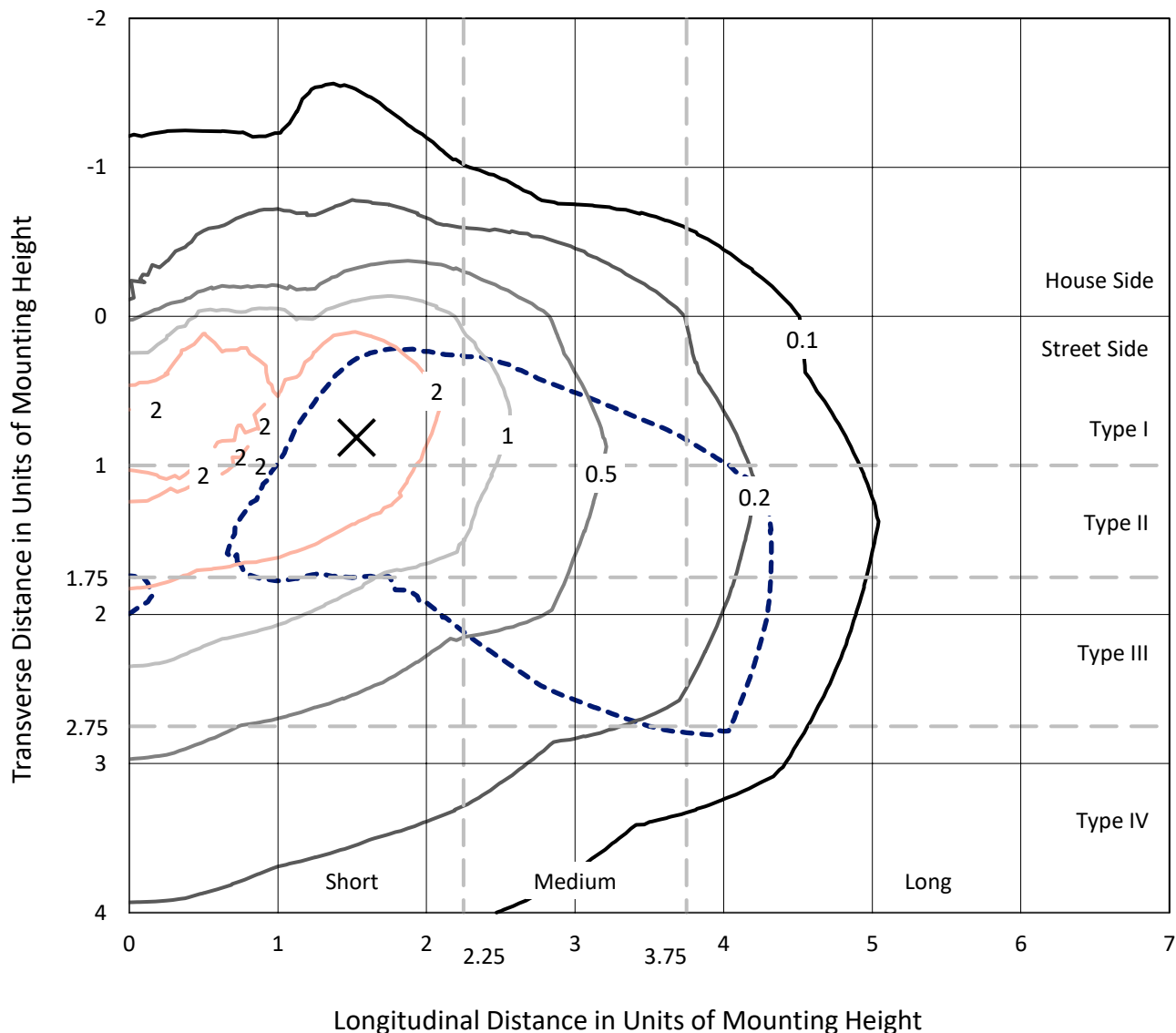
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

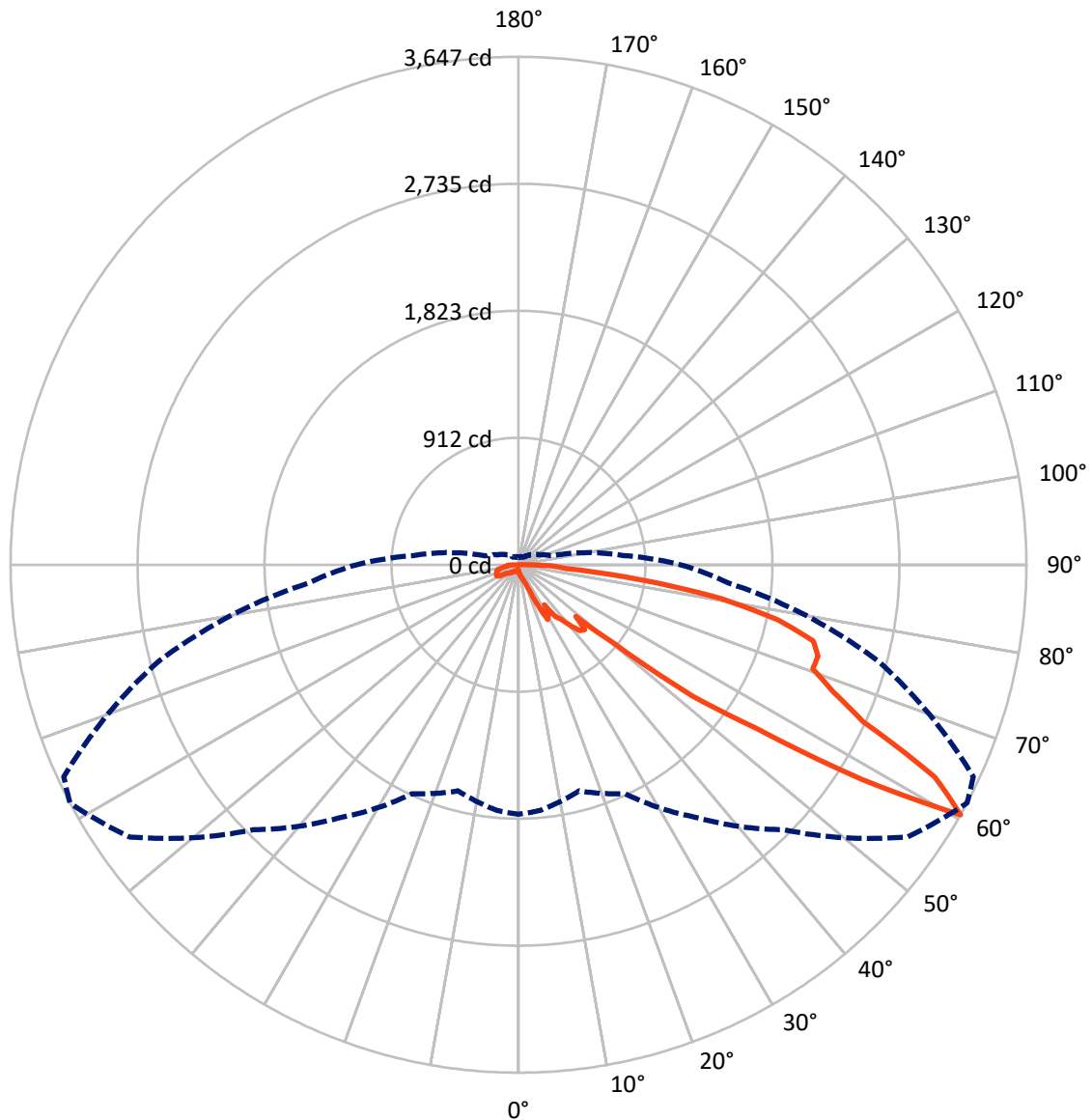
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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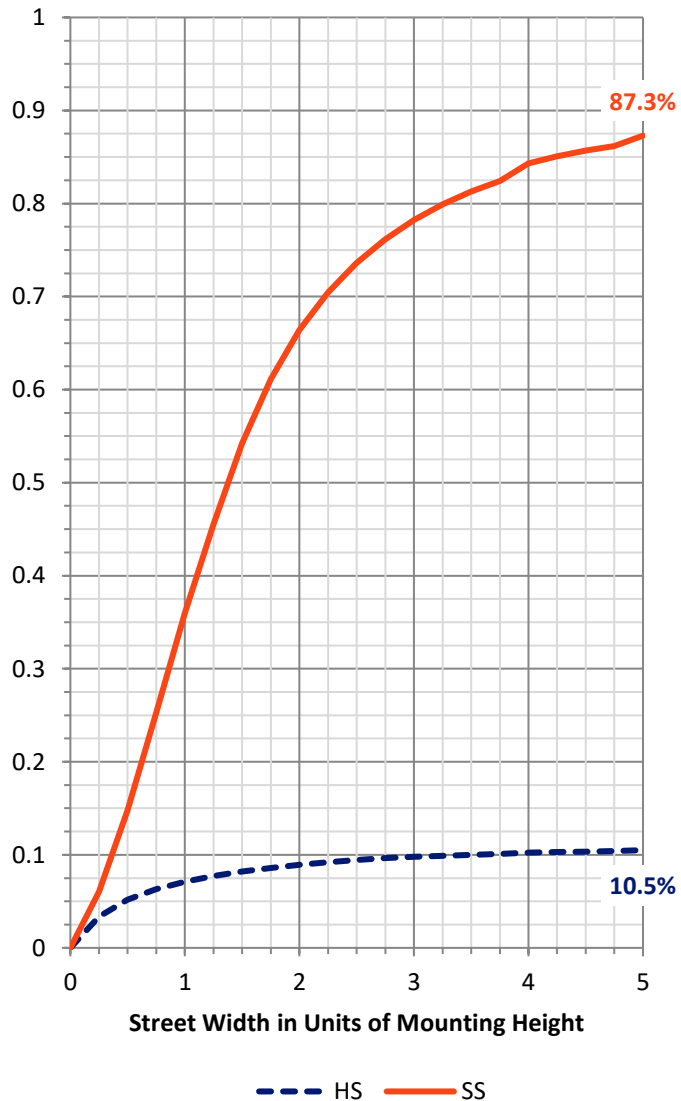
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.8	0.0	394.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3222.2	0.0	3222.2
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	3617.0	0.0	3617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	20.5	0.6
20°-30°	76.7	2.1
30°-40°	151.6	4.2
40°-50°	262.3	7.3
50°-60°	776.6	21.5
60°-70°	1147.3	31.7
70°-80°	920.3	25.4
80°-90°	256.8	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°	3617.0	100.0
0°-180°	3617.0	100.0

**Coefficient of Utilization**



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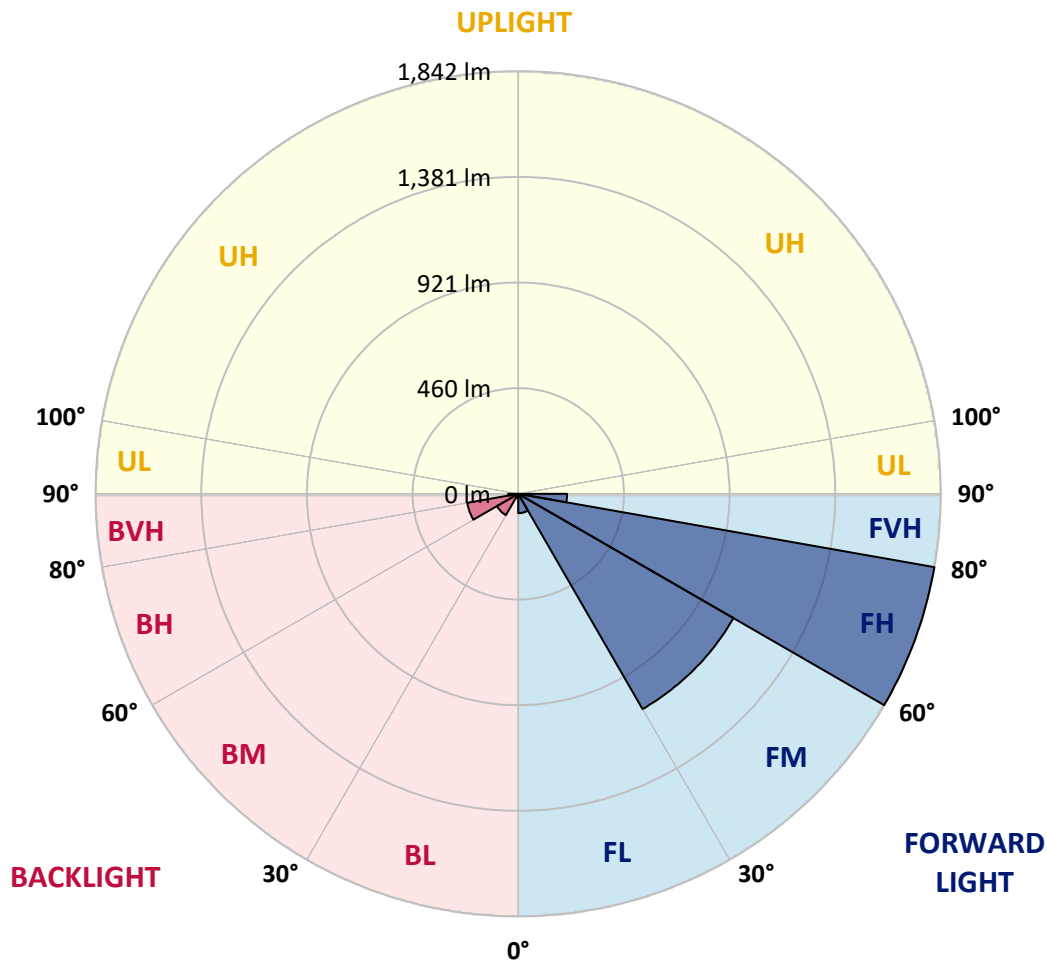
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	84.5	2.3			
FM (30°-60°)	1083.1	29.9			
FH (60°-80°)	1841.8	50.9			G2/5000
FVH (80°-90°)	212.8	5.9			G2/225
BL (0°-30°)	17.6	0.5	B0/110		
BM (30°-60°)	107.3	3.0	B0/220		
BH (60°-80°)	225.9	6.2	B1/500		G1/500
BVH (80°-90°)	44.0	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
2.5°	60.6	59.6	57.7	55.7	54.7	53.7	52.8	51.8	50.8	47.9	45.9
5°	74.3	73.3	71.3	68.4	65.5	63.5	62.5	61.6	59.6	56.7	51.8
7.5°	84.0	84.0	84.0	82.1	79.1	75.2	72.3	70.4	68.4	64.5	59.6
10°	95.8	94.8	94.8	91.9	88.9	86.0	84.0	82.1	80.1	74.3	66.4
12.5°	104.6	103.6	102.6	99.7	98.7	95.8	94.8	90.9	88.9	82.1	72.3
15°	114.3	113.4	111.4	110.4	107.5	105.5	106.5	105.5	103.6	94.8	80.1
17.5°	125.1	124.1	123.1	123.1	123.1	121.2	120.2	118.2	116.3	102.6	85.0
20°	146.6	143.6	140.7	138.8	142.7	143.6	143.6	141.7	141.7	118.2	97.7
22.5°	186.6	183.7	181.8	167.1	173.0	200.3	209.1	199.3	201.3	155.4	107.5
25°	293.1	283.4	278.5	280.4	297.1	327.3	332.2	320.5	326.4	241.4	172.0
27.5°	343.0	344.9	383.0	422.1	427.0	442.7	469.0	444.6	431.9	308.8	215.0
30°	349.8	353.7	424.1	455.4	443.6	435.8	494.4	423.1	401.6	292.2	236.5
32.5°	322.5	340.1	415.3	428.0	400.6	357.6	400.6	341.0	334.2	254.1	224.7
35°	374.3	383.0	417.2	368.4	359.6	412.4	522.8	458.3	442.7	313.7	216.0
37.5°	453.4	450.5	515.9	554.0	540.4	486.6	544.3	495.4	482.7	394.8	308.8
40°	554.0	547.2	626.4	643.9	631.2	628.3	704.5	573.6	549.2	440.7	366.4
42.5°	582.4	584.3	635.2	678.1	668.4	667.4	781.7	646.9	609.7	445.6	402.6
45°	595.1	605.8	703.6	677.2	686.9	669.4	771.0	666.4	635.2	495.4	473.9
47.5°	516.9	522.8	657.6	658.6	534.5	538.4	629.3	555.0	532.6	387.9	408.5
50°	667.4	666.4	715.3	676.2	619.5	717.2	900.9	872.6	856.0	582.4	453.4
52.5°	965.4	954.7	1028.9	1090.5	1078.8	1304.5	1578.1	1566.4	1506.8	1142.3	716.3
55°	1270.3	1265.4	1347.5	1564.4	1669.0	1881.0	2146.8	2072.6	2050.1	1682.7	1125.7
57.5°	1521.4	1522.4	1548.8	1735.4	1948.5	2358.9	2819.1	2906.1	2860.1	2172.2	1368.0
60°	1792.1	1770.6	1680.7	1813.6	2212.3	2689.1	3407.4	3646.8	3602.8	2672.5	1514.6
62.5°	1810.7	1789.2	1635.8	1770.6	2075.5	2514.2	3159.2	3353.6	3404.4	2808.4	1558.6
65°	1728.6	1702.2	1512.6	1613.3	1737.4	2003.2	2793.7	2716.5	2789.8	2766.3	1557.6
67.5°	1637.7	1616.2	1438.4	1522.4	1618.2	1796.0	2629.5	2437.0	2512.3	2602.2	1630.9
70°	1545.9	1515.6	1371.9	1462.8	1581.0	1701.2	2421.4	2240.6	2221.1	2204.5	1557.6
72.5°	1530.2	1506.8	1354.3	1417.9	1551.7	1640.7	2387.2	2248.4	2228.9	2126.3	1424.7
75°	1411.0	1409.1	1262.5	1322.1	1483.3	1539.0	2292.4	2185.9	2144.9	2012.9	1253.7
77.5°	1139.4	1124.7	1018.2	1080.7	1226.3	1303.5	1972.9	1903.5	1880.1	1756.9	1036.8
80°	766.1	753.4	707.5	743.6	879.4	946.9	1480.4	1474.5	1456.9	1375.8	766.1
82.5°	435.8	457.3	414.3	430.9	477.8	560.9	920.5	880.4	867.7	810.1	434.8
85°	245.3	240.4	223.8	221.8	258.9	255.0	397.7	341.0	354.7	306.8	207.2
87.5°	176.9	180.8	163.2	163.2	180.8	178.8	250.2	235.5	233.5	218.9	148.5
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°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
2.5°	44.9	44.0	41.0	38.1	33.2	28.3	25.4	27.4	28.3	29.3	29.3
5°	48.9	46.9	41.0	35.2	29.3	24.4	20.5	18.6	18.6	19.5	19.5
7.5°	57.7	54.7	46.9	40.1	32.2	27.4	22.5	19.5	17.6	17.6	17.6
10°	62.5	59.6	50.8	43.0	35.2	29.3	24.4	20.5	18.6	17.6	17.6
12.5°	67.4	63.5	54.7	45.9	37.1	30.3	25.4	21.5	20.5	20.5	20.5
15°	73.3	67.4	56.7	46.9	38.1	31.3	25.4	22.5	21.5	21.5	21.5
17.5°	79.1	73.3	60.6	47.9	39.1	31.3	26.4	22.5	21.5	22.5	22.5
20°	88.9	78.2	60.6	48.9	39.1	31.3	26.4	22.5	22.5	22.5	22.5
22.5°	93.8	85.0	64.5	49.8	40.1	32.2	26.4	22.5	22.5	22.5	22.5
25°	144.6	107.5	67.4	51.8	41.0	33.2	26.4	23.5	22.5	23.5	23.5
27.5°	181.8	151.5	77.2	54.7	42.0	34.2	27.4	23.5	23.5	24.4	24.4
30°	202.3	173.0	84.0	59.6	44.9	35.2	28.3	24.4	24.4	24.4	24.4
32.5°	192.5	156.3	85.0	65.5	49.8	37.1	29.3	25.4	25.4	25.4	25.4
35°	167.1	129.0	83.1	66.4	52.8	41.0	31.3	26.4	26.4	25.4	25.4
37.5°	233.5	162.2	86.0	66.4	54.7	44.0	34.2	28.3	27.4	26.4	26.4
40°	276.5	180.8	94.8	71.3	54.7	44.9	36.2	31.3	29.3	28.3	27.4
42.5°	306.8	198.4	101.6	78.2	60.6	46.9	37.1	34.2	31.3	29.3	29.3
45°	350.8	210.1	110.4	86.0	66.4	51.8	40.1	35.2	34.2	32.2	31.3
47.5°	320.5	214.0	119.2	94.8	73.3	56.7	44.0	38.1	37.1	35.2	34.2
50°	329.3	208.1	122.1	100.6	80.1	60.6	47.9	42.0	40.1	38.1	38.1
52.5°	449.5	275.6	133.9	103.6	83.1	66.4	51.8	45.9	44.0	42.0	42.0
55°	733.8	422.1	165.1	114.3	86.0	68.4	55.7	50.8	47.9	45.9	44.9
57.5°	958.6	596.1	209.1	139.7	102.6	72.3	57.7	55.7	53.7	49.8	48.9
60°	1162.8	755.3	246.2	168.1	129.0	93.8	66.4	61.6	60.6	54.7	52.8
62.5°	1328.9	887.3	276.5	183.7	147.6	121.2	90.9	76.2	68.4	61.6	59.6
65°	1389.5	931.2	288.3	186.6	152.4	134.8	114.3	103.6	81.1	70.4	68.4
67.5°	1413.0	921.5	294.1	180.8	148.5	134.8	120.2	121.2	98.7	78.2	75.2
70°	1367.0	883.4	291.2	174.9	142.7	130.9	117.3	113.4	102.6	84.0	80.1
72.5°	1263.5	848.2	290.2	173.9	140.7	126.1	108.5	96.7	87.9	83.1	81.1
75°	1159.9	824.7	286.3	173.0	137.8	119.2	98.7	84.0	72.3	73.3	75.2
77.5°	985.0	728.0	264.8	160.3	124.1	103.6	85.0	74.3	65.5	64.5	64.5
80°	744.6	540.4	216.9	133.9	101.6	84.0	70.4	66.4	61.6	59.6	58.6
82.5°	412.4	284.4	139.7	99.7	80.1	65.5	59.6	59.6	56.7	53.7	53.7
85°	188.6	159.3	103.6	83.1	68.4	56.7	51.8	51.8	48.9	45.9	44.9
87.5°	146.6	126.1	87.9	77.2	66.4	55.7	49.8	49.8	46.9	44.9	44.9
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)