

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: P594021

Luminaire Tested: **ISC-PA1A-AMB-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1A-AMB-U-T2R  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1339 lumens  
Efficiency: N/A  
Efficacy: 42.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

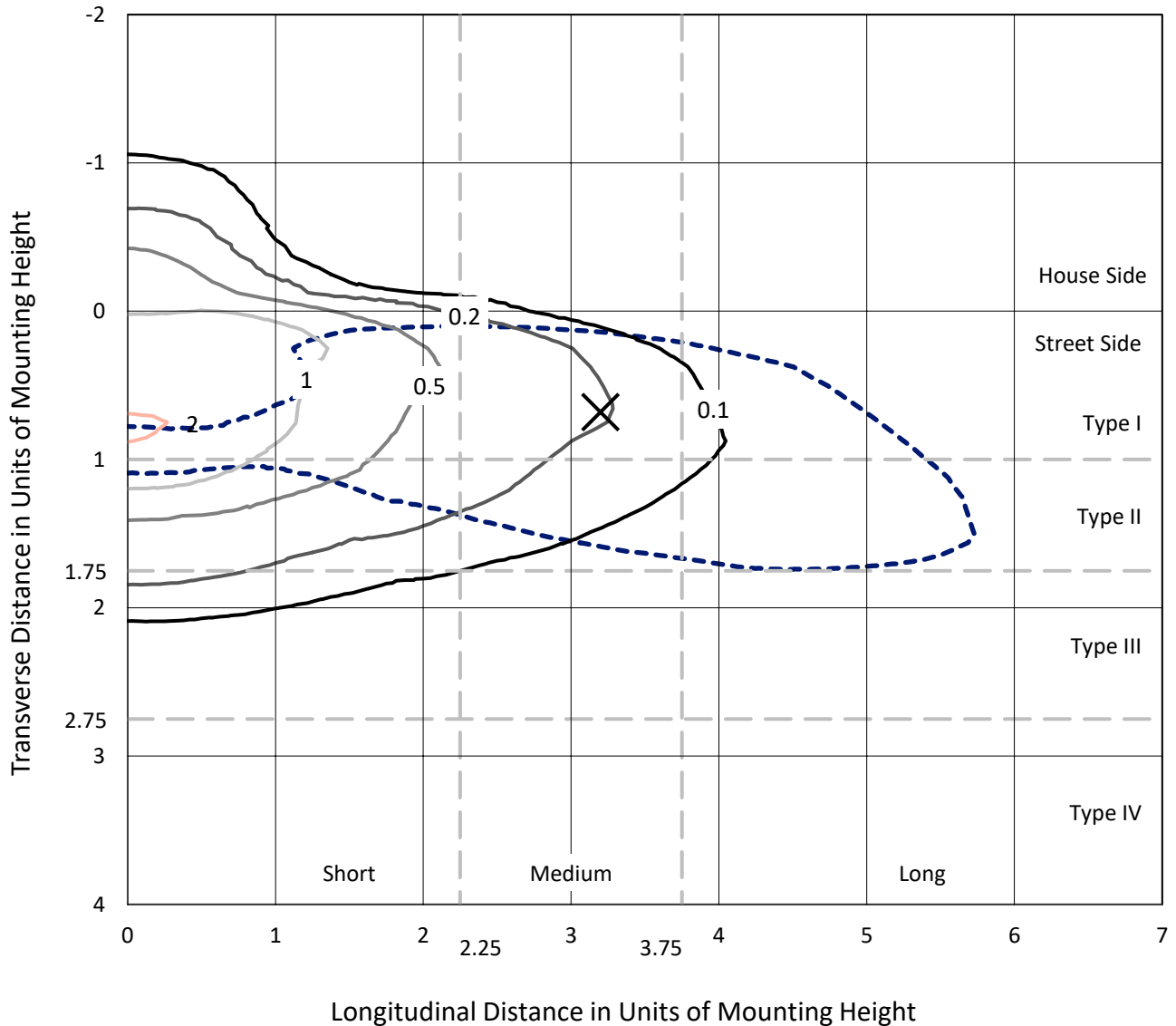
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

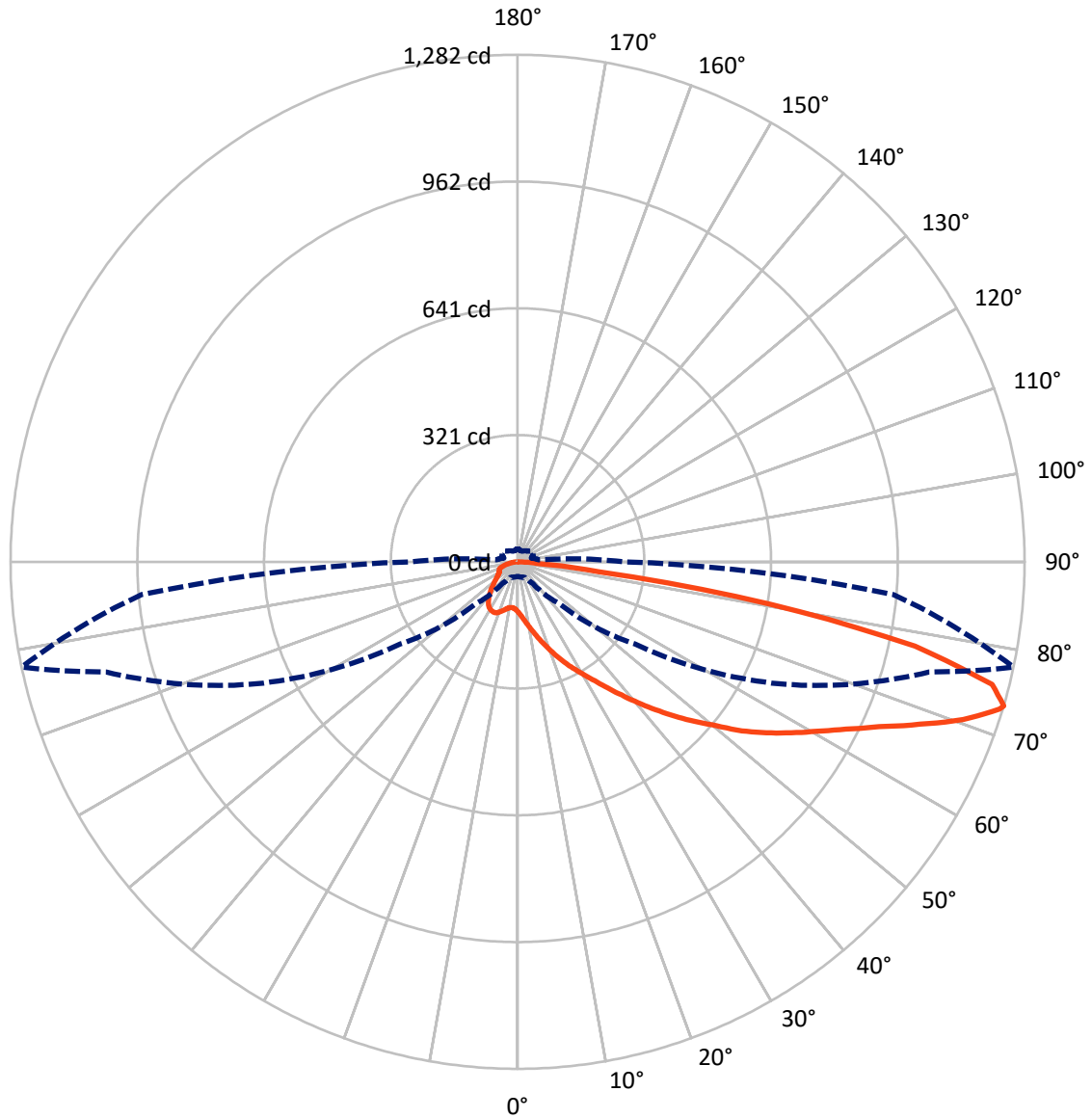
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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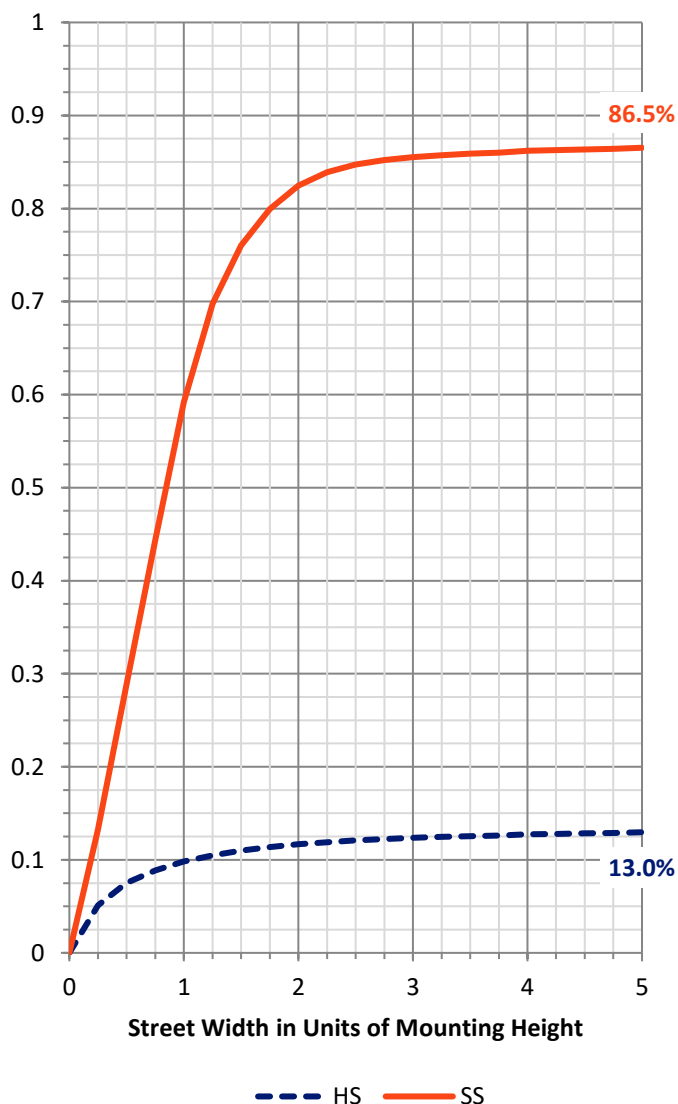
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	176.5	0.0	176.5
	% Fixture	13.2	0.0	13.2
<b>Street Side</b>	Lumens	1162.4	0.0	1162.4
	% Fixture	86.8	0.0	86.8
<b>Total</b>	Lumens	1339.0	0.0	1339.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	1.1
10°-20°	53.0	4.0
20°-30°	94.2	7.0
30°-40°	161.4	12.1
40°-50°	250.5	18.7
50°-60°	279.1	20.8
60°-70°	264.5	19.8
70°-80°	190.3	14.2
80°-90°	31.1	2.3
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°	1339.0	100.0
0°-180°	1339.0	100.0

**Coefficient of Utilization**

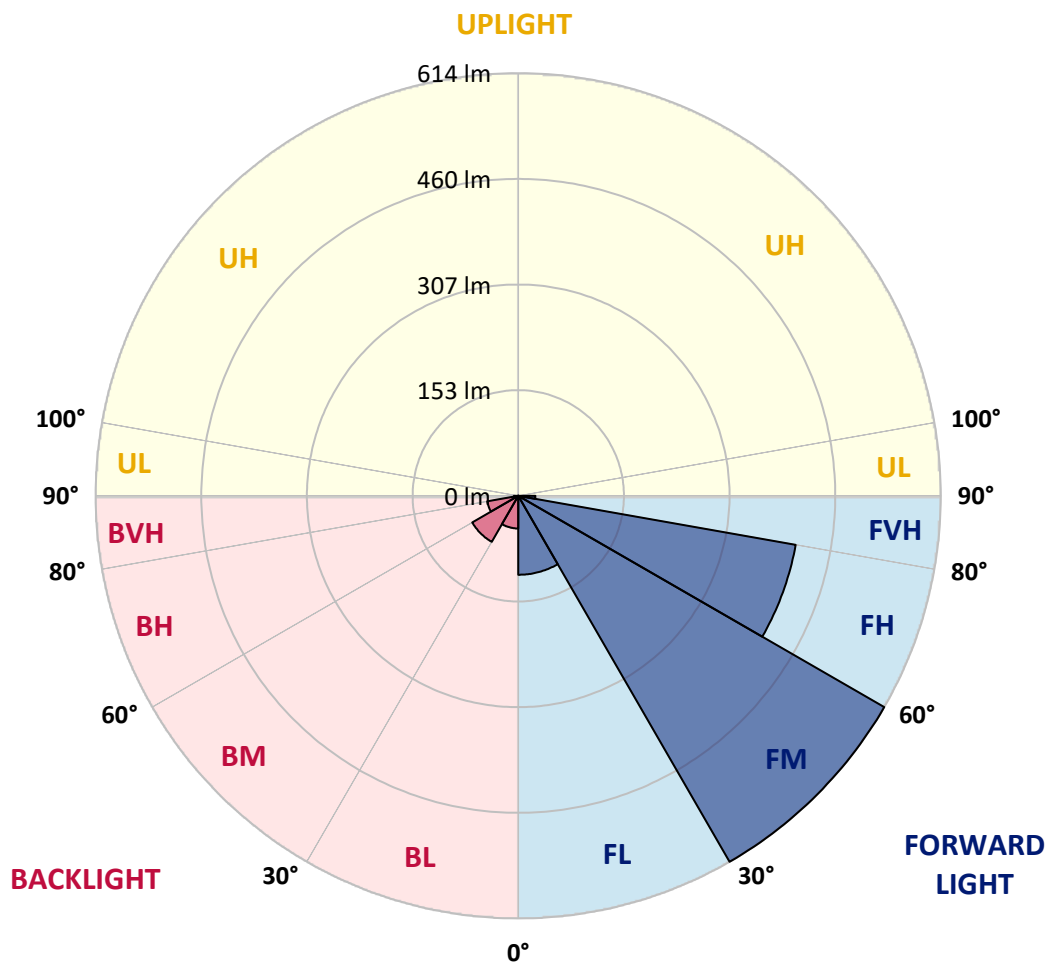


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.7	8.6			
FM (30°-60°)	613.8	45.8			
FH (60°-80°)	409.1	30.6			G0/660
FVH (80°-90°)	24.9	1.9			G1/100
BL (0°-30°)	47.5	3.5	B0/110		
BM (30°-60°)	77.1	5.8	B0/220		
BH (60°-80°)	45.7	3.4	B0/110		G0/110
BVH (80°-90°)	6.2	0.5			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	170.4	169.4	166.4	164.4	161.4	156.4	148.4	142.5	135.5	133.5	129.5
5°	221.2	220.2	217.2	213.2	207.2	195.3	179.3	162.4	147.4	143.5	133.5
7.5°	250.1	250.1	248.1	244.1	238.1	226.1	209.2	188.3	161.4	155.4	139.5
10°	266.0	266.0	264.0	262.0	259.0	249.1	234.1	211.2	178.3	168.4	146.4
12.5°	271.0	271.0	273.0	274.0	274.0	267.0	253.0	231.1	197.3	184.3	156.4
15°	261.0	262.0	266.0	274.0	281.9	279.9	270.0	250.1	215.2	201.2	167.4
17.5°	257.0	258.0	263.0	270.0	282.9	290.9	285.9	268.0	234.1	220.2	181.3
20°	261.0	261.0	267.0	276.0	285.9	295.9	300.9	286.9	255.0	240.1	197.3
22.5°	268.0	269.0	274.0	283.9	296.9	305.8	310.8	303.9	275.0	262.0	215.2
25°	281.9	281.9	284.9	292.9	307.8	320.8	322.8	317.8	297.9	284.9	235.1
27.5°	306.8	306.8	303.9	304.8	318.8	337.7	338.7	329.8	319.8	306.8	256.0
30°	368.6	363.6	348.7	333.7	330.7	352.7	357.6	341.7	342.7	331.7	276.0
32.5°	445.3	442.3	423.4	388.5	360.6	368.6	381.6	359.6	367.6	358.6	299.9
35°	549.9	545.9	520.0	463.2	410.4	391.5	404.5	380.6	396.5	391.5	324.8
37.5°	628.6	626.6	599.7	547.9	477.2	432.4	431.4	405.5	426.4	427.4	352.7
40°	676.4	673.5	655.5	616.7	551.9	482.2	464.2	435.4	459.3	468.2	382.6
42.5°	684.4	682.4	676.4	657.5	613.7	545.9	502.1	466.2	494.1	511.1	413.4
45°	670.5	670.5	670.5	667.5	651.5	606.7	547.9	499.1	533.0	556.9	446.3
47.5°	632.6	636.6	647.6	661.5	662.5	648.5	600.7	533.0	569.8	602.7	480.2
50°	556.9	564.9	592.8	629.6	655.5	668.5	649.5	569.8	608.7	651.5	520.0
52.5°	425.4	430.4	487.2	559.9	626.6	666.5	692.4	617.7	654.5	710.3	561.9
55°	348.7	349.7	378.6	456.3	563.9	650.5	719.3	662.5	693.4	763.1	604.7
57.5°	328.8	328.8	336.7	371.6	461.3	612.7	731.2	710.3	730.2	815.9	651.5
60°	300.9	299.9	310.8	333.7	388.5	542.9	725.3	750.2	767.1	869.7	701.3
62.5°	239.1	244.1	261.0	298.9	340.7	457.3	703.3	780.1	808.9	931.5	760.1
65°	157.4	163.4	184.3	232.1	299.9	392.5	656.5	805.0	856.8	1005.2	822.9
67.5°	80.7	83.7	104.6	151.4	224.2	336.7	580.8	816.9	919.5	1096.9	888.6
70°	45.8	46.8	54.8	79.7	141.5	259.0	489.2	809.9	989.3	1195.5	949.4
72.5°	37.9	38.9	39.8	46.8	74.7	167.4	387.5	747.2	1066.0	1274.2	965.3
73°	36.9	37.9	39.8	43.8	65.8	151.4	362.6	730.2	1076.9	1282.2	954.4
75°	33.9	33.9	35.9	37.9	42.8	91.7	260.0	650.5	1084.9	1239.3	869.7
77.5°	29.9	29.9	31.9	32.9	34.9	50.8	145.4	506.1	983.3	1027.1	652.5
80°	24.9	24.9	25.9	27.9	30.9	35.9	61.8	338.7	701.3	647.6	326.8
82.5°	17.9	17.9	21.9	22.9	25.9	25.9	27.9	143.5	264.0	207.2	69.7
85°	10.0	11.0	15.9	17.9	20.9	13.0	14.9	50.8	66.7	48.8	10.0
87.5°	1.0	2.0	6.0	7.0	8.0	3.0	5.0	9.0	12.0	11.0	3.0
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°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	126.5	123.5	119.5	116.6	113.6	111.6	110.6	109.6	109.6	108.6	108.6
5°	128.5	122.5	115.6	111.6	109.6	108.6	108.6	108.6	108.6	108.6	108.6
7.5°	130.5	122.5	113.6	110.6	110.6	110.6	111.6	112.6	112.6	113.6	113.6
10°	133.5	123.5	114.6	112.6	113.6	114.6	116.6	117.6	118.6	118.6	118.6
12.5°	139.5	127.5	116.6	115.6	117.6	118.6	120.5	121.5	121.5	122.5	122.5
15°	147.4	131.5	121.5	120.5	121.5	121.5	121.5	121.5	120.5	120.5	120.5
17.5°	156.4	138.5	125.5	123.5	122.5	121.5	118.6	116.6	115.6	115.6	114.6
20°	168.4	145.4	129.5	125.5	122.5	116.6	112.6	108.6	105.6	105.6	105.6
22.5°	181.3	153.4	132.5	124.5	116.6	109.6	103.6	98.6	95.6	94.6	92.6
25°	196.3	161.4	132.5	120.5	109.6	100.6	92.6	87.7	82.7	81.7	80.7
27.5°	209.2	166.4	129.5	113.6	101.6	90.7	81.7	75.7	72.7	70.7	70.7
30°	224.2	171.4	125.5	106.6	91.7	79.7	70.7	65.8	63.8	61.8	61.8
32.5°	238.1	173.3	119.5	97.6	81.7	69.7	61.8	59.8	57.8	54.8	54.8
35°	253.0	173.3	111.6	87.7	71.7	61.8	58.8	55.8	52.8	49.8	48.8
37.5°	268.0	170.4	101.6	77.7	62.8	57.8	58.8	51.8	48.8	47.8	46.8
40°	282.9	165.4	91.7	66.7	55.8	56.8	56.8	48.8	46.8	46.8	45.8
42.5°	297.9	156.4	80.7	58.8	51.8	55.8	53.8	48.8	45.8	44.8	44.8
45°	312.8	146.4	70.7	51.8	49.8	52.8	52.8	48.8	44.8	44.8	44.8
47.5°	327.8	135.5	61.8	47.8	46.8	46.8	48.8	46.8	44.8	43.8	43.8
50°	342.7	122.5	54.8	44.8	45.8	44.8	46.8	44.8	43.8	42.8	42.8
52.5°	353.7	110.6	49.8	42.8	44.8	42.8	43.8	42.8	42.8	41.8	40.8
55°	364.6	98.6	46.8	42.8	43.8	41.8	41.8	41.8	41.8	39.8	39.8
57.5°	369.6	87.7	44.8	42.8	41.8	40.8	40.8	40.8	39.8	39.8	39.8
60°	374.6	77.7	43.8	42.8	41.8	40.8	39.8	39.8	38.9	39.8	38.9
62.5°	379.6	70.7	43.8	43.8	40.8	39.8	38.9	37.9	37.9	38.9	38.9
65°	382.6	66.7	44.8	44.8	40.8	39.8	38.9	36.9	35.9	37.9	37.9
67.5°	374.6	63.8	44.8	45.8	41.8	38.9	36.9	34.9	33.9	36.9	35.9
70°	346.7	60.8	42.8	46.8	42.8	38.9	34.9	32.9	31.9	35.9	34.9
72.5°	286.9	55.8	37.9	44.8	44.8	37.9	33.9	30.9	28.9	32.9	30.9
73°	271.0	54.8	35.9	43.8	45.8	37.9	33.9	29.9	28.9	31.9	29.9
75°	205.2	46.8	30.9	37.9	44.8	38.9	32.9	28.9	25.9	26.9	25.9
77.5°	120.5	34.9	23.9	27.9	39.8	40.8	30.9	25.9	21.9	21.9	21.9
80°	59.8	23.9	18.9	19.9	30.9	40.8	28.9	21.9	16.9	16.9	15.9
82.5°	21.9	13.9	13.0	13.0	19.9	35.9	25.9	16.9	13.0	13.0	11.0
85°	8.0	8.0	8.0	8.0	9.0	20.9	21.9	11.0	8.0	7.0	6.0
87.5°	2.0	3.0	3.0	2.0	3.0	2.0	9.0	4.0	2.0	1.0	1.0
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)