

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: P594025

Luminaire Tested: **ISC-PA1A-AMB-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-19)  
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-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1356 lumens  
Efficiency: N/A  
Efficacy: 42.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

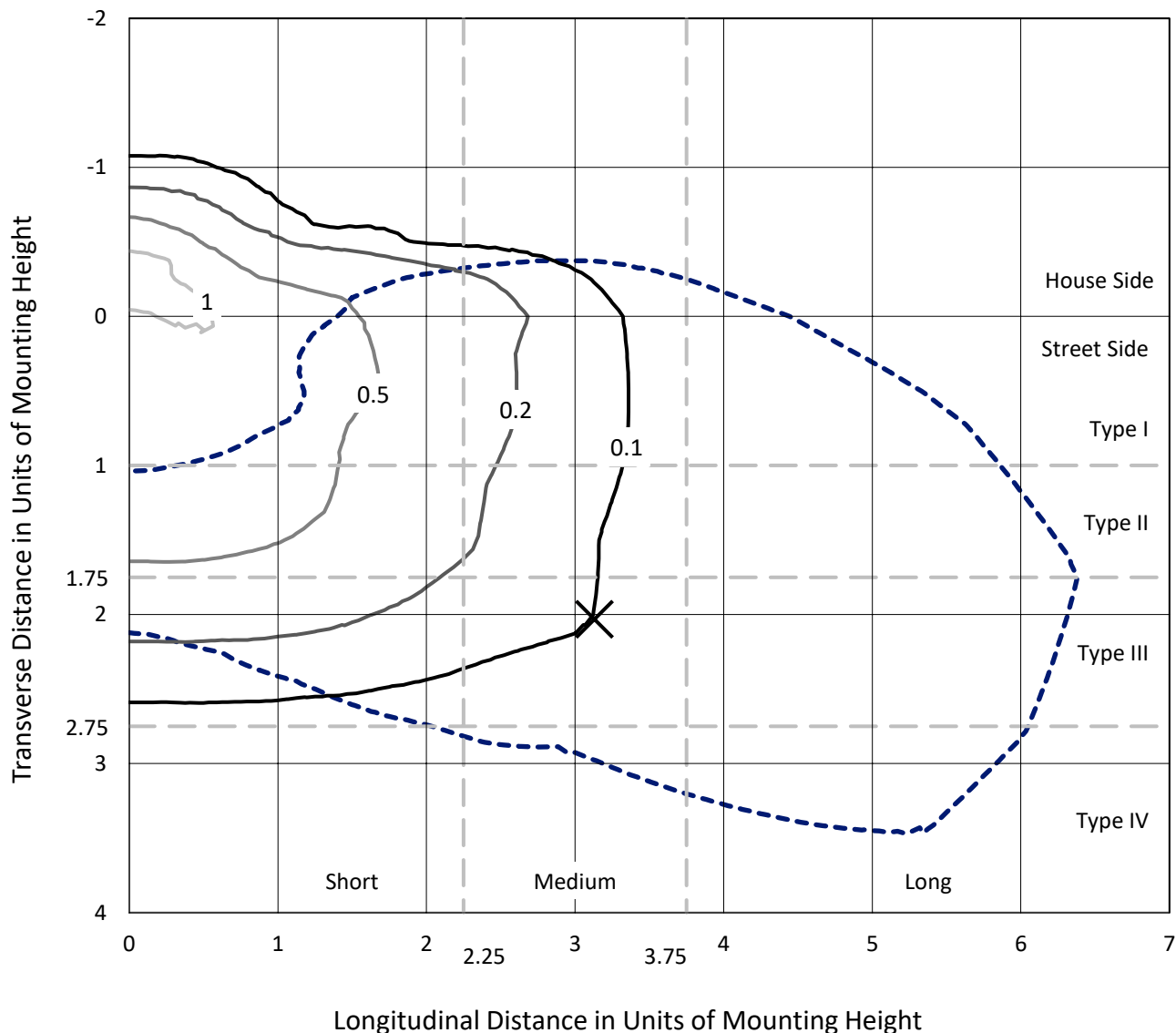
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

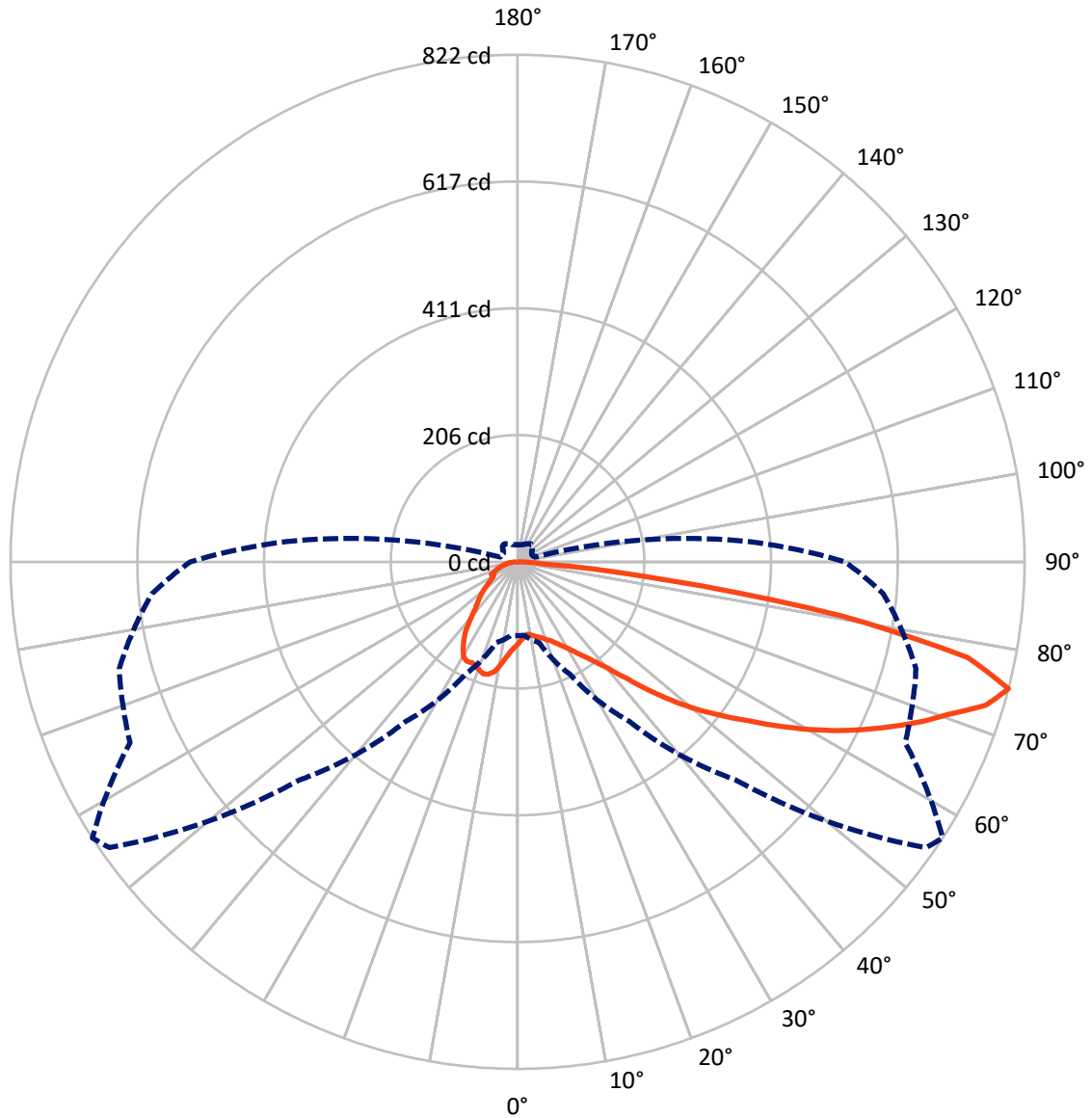
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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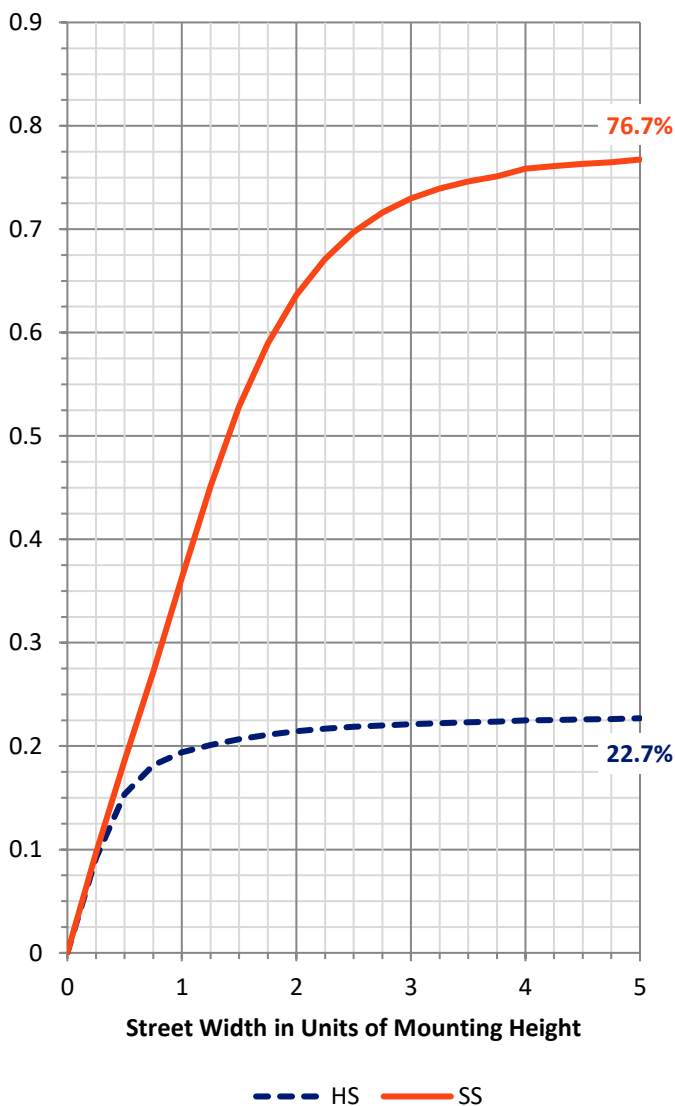
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	312.5	0.0	312.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	1043.5	0.0	1043.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	1356.0	0.0	1356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.1	1.0
10°-20°	43.8	3.2
20°-30°	78.3	5.8
30°-40°	112.2	8.3
40°-50°	176.3	13.0
50°-60°	279.9	20.6
60°-70°	338.2	24.9
70°-80°	264.1	19.5
80°-90°	50.1	3.7
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°	1356.0	100.0
0°-180°	1356.0	100.0

**Coefficient of Utilization**

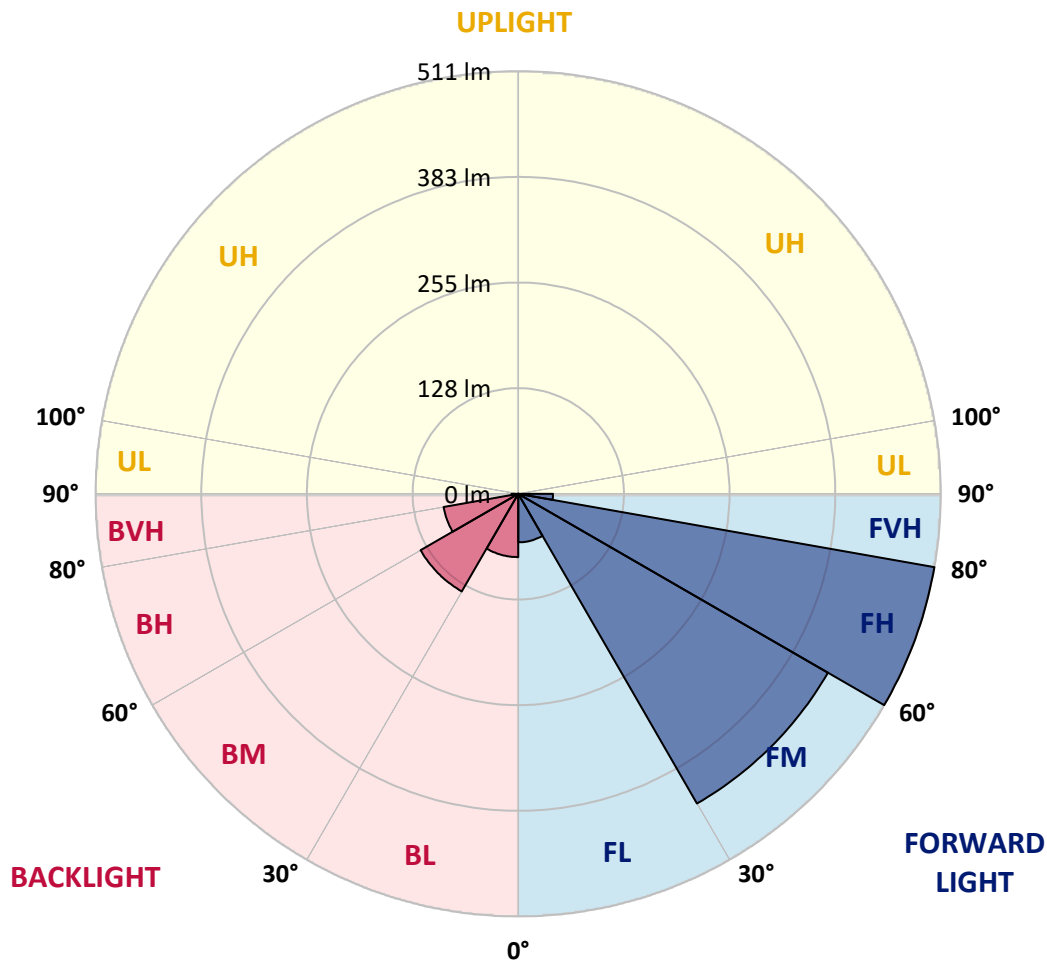


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.6	4.3			
FM (30°-60°)	432.2	31.9			
FH (60°-80°)	510.7	37.7			G0/660
FVH (80°-90°)	42.0	3.1			G1/100
BL (0°-30°)	76.5	5.6	B0/110		
BM (30°-60°)	136.3	10.1	B0/220		
BH (60°-80°)	91.6	6.8	B0/110		G0/110
BVH (80°-90°)	8.1	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	118.6	119.7	119.7	120.7	121.7	123.8	124.8	125.8	127.9	128.9	131.9
5°	107.4	107.4	108.4	109.4	111.5	115.6	119.7	120.7	124.8	129.9	134.0
7.5°	104.3	104.3	105.3	106.4	108.4	112.5	117.6	118.6	124.8	131.9	139.1
10°	105.3	105.3	106.4	106.4	109.4	113.5	118.6	120.7	127.9	138.1	146.3
12.5°	107.4	107.4	108.4	109.4	111.5	114.6	121.7	123.8	131.9	144.2	155.5
15°	109.4	109.4	109.4	111.5	113.5	116.6	124.8	126.8	138.1	153.4	165.7
17.5°	111.5	111.5	111.5	113.5	115.6	119.7	127.9	129.9	144.2	162.6	174.9
20°	114.6	113.5	114.6	115.6	118.6	123.8	131.9	135.0	149.3	170.8	184.1
22.5°	117.6	116.6	116.6	118.6	121.7	127.9	137.1	139.1	156.5	182.1	193.3
25°	125.8	124.8	123.8	123.8	125.8	133.0	143.2	146.3	163.6	192.3	201.5
27.5°	137.1	137.1	134.0	131.9	131.9	138.1	150.4	154.4	171.8	202.5	209.7
30°	152.4	153.4	149.3	145.2	143.2	147.3	160.6	163.6	183.1	216.8	220.9
32.5°	181.0	180.0	173.9	165.7	159.6	160.6	171.8	175.9	195.4	232.2	232.2
35°	214.8	214.8	207.6	192.3	181.0	176.9	186.1	189.2	210.7	247.5	244.4
37.5°	247.5	248.5	245.5	227.1	209.7	198.4	203.5	206.6	228.1	267.0	259.8
40°	284.3	286.4	284.3	267.0	244.4	227.1	227.1	228.1	248.5	290.5	280.2
42.5°	328.3	327.3	329.3	308.9	285.4	262.9	257.7	257.7	276.2	319.1	304.8
45°	381.5	379.5	377.4	361.0	333.4	304.8	294.6	295.6	304.8	349.8	332.4
47.5°	448.0	449.0	438.8	421.4	390.7	359.0	337.5	335.5	338.5	382.5	361.0
50°	506.3	510.4	499.1	488.9	457.2	423.4	380.5	375.4	369.2	420.4	392.8
52.5°	542.1	548.2	543.1	546.2	528.8	502.2	424.5	414.2	404.0	462.3	424.5
55°	552.3	551.3	563.6	579.9	588.1	574.8	471.5	455.1	444.9	502.2	456.2
57.5°	528.8	533.9	569.7	597.3	630.0	632.1	518.6	503.2	488.9	543.1	486.9
60°	489.9	496.1	544.1	596.3	655.6	663.8	567.7	553.3	528.8	583.0	517.5
62.5°	454.1	458.2	504.2	577.9	655.6	674.0	613.7	602.4	569.7	618.8	552.3
65°	403.0	407.1	451.1	541.1	635.2	678.1	656.6	649.5	606.5	646.4	585.0
67.5°	347.8	350.8	387.6	479.7	599.4	677.1	699.6	696.5	638.2	668.9	611.6
70°	273.1	276.2	319.1	396.8	538.0	666.9	742.6	741.5	660.7	679.1	635.2
72.5°	194.3	193.3	232.2	308.9	440.8	617.8	796.8	794.7	675.0	680.2	639.3
75°	119.7	119.7	136.0	201.5	316.0	500.1	808.0	822.3	693.5	668.9	595.3
77.5°	62.4	62.4	69.6	111.5	180.0	313.0	709.8	746.6	664.8	629.0	505.3
80°	20.5	21.5	23.5	43.0	95.1	143.2	465.4	532.9	549.2	528.8	371.3
82.5°	16.4	16.4	18.4	23.5	47.0	43.0	195.4	244.4	303.8	313.0	173.9
85°	15.3	15.3	20.5	19.4	31.7	19.4	32.7	44.0	115.6	154.4	12.3
87.5°	4.1	5.1	11.3	11.3	18.4	7.2	8.2	9.2	10.2	38.9	5.1
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°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	133.0	134.0	136.0	137.1	139.1	140.1	141.1	142.2	143.2	143.2	143.2
5°	136.0	138.1	141.1	144.2	146.3	148.3	150.4	152.4	154.4	155.5	155.5
7.5°	142.2	144.2	149.3	153.4	157.5	159.6	162.6	164.7	166.7	167.7	168.8
10°	150.4	153.4	159.6	165.7	170.8	173.9	172.9	170.8	170.8	170.8	171.8
12.5°	159.6	163.6	171.8	179.0	183.1	179.0	173.9	168.8	167.7	168.8	168.8
15°	169.8	173.9	183.1	191.3	187.2	178.0	172.9	171.8	172.9	175.9	175.9
17.5°	180.0	184.1	194.3	198.4	188.2	176.9	178.0	182.1	187.2	191.3	191.3
20°	188.2	192.3	201.5	198.4	183.1	180.0	189.2	197.4	197.4	199.4	199.4
22.5°	196.4	199.4	206.6	195.4	178.0	189.2	198.4	197.4	195.4	195.4	195.4
25°	204.6	206.6	208.7	186.1	178.0	194.3	192.3	189.2	187.2	187.2	187.2
27.5°	210.7	211.7	206.6	176.9	182.1	186.1	180.0	174.9	169.8	169.8	169.8
30°	217.9	215.8	201.5	168.8	180.0	170.8	161.6	150.4	148.3	150.4	150.4
32.5°	227.1	220.9	199.4	166.7	166.7	155.5	136.0	128.9	129.9	134.0	134.0
35°	236.3	226.0	196.4	166.7	150.4	128.9	112.5	112.5	112.5	112.5	113.5
37.5°	247.5	234.2	190.2	160.6	134.0	103.3	97.2	95.1	92.1	90.0	91.0
40°	263.9	247.5	185.1	149.3	112.5	88.0	84.9	80.8	74.7	69.6	70.6
42.5°	283.3	262.9	187.2	139.1	93.1	79.8	74.7	68.5	61.4	57.3	57.3
45°	305.8	280.2	195.4	129.9	82.8	73.6	66.5	59.3	53.2	49.1	49.1
47.5°	329.3	297.6	199.4	116.6	74.7	66.5	59.3	52.2	48.1	44.0	44.0
50°	357.0	319.1	198.4	100.2	67.5	59.3	52.2	48.1	45.0	40.9	40.9
52.5°	383.6	347.8	196.4	83.9	59.3	53.2	48.1	45.0	41.9	37.8	36.8
55°	413.2	382.5	198.4	69.6	52.2	48.1	45.0	41.9	39.9	39.9	39.9
57.5°	454.1	426.5	198.4	57.3	47.0	46.0	45.0	46.0	52.2	51.1	50.1
60°	505.3	470.5	192.3	49.1	44.0	49.1	56.3	58.3	50.1	46.0	46.0
62.5°	565.6	516.5	156.5	44.0	45.0	61.4	58.3	50.1	43.0	41.9	41.9
65°	626.0	552.3	102.3	39.9	49.1	56.3	50.1	44.0	39.9	40.9	39.9
67.5°	669.9	566.6	64.4	36.8	41.9	48.1	46.0	40.9	36.8	38.9	38.9
70°	676.1	548.2	44.0	32.7	36.8	44.0	43.0	37.8	34.8	36.8	35.8
72.5°	630.0	485.8	35.8	29.7	31.7	38.9	39.9	34.8	31.7	31.7	30.7
75°	530.8	376.4	29.7	25.6	27.6	34.8	35.8	31.7	28.6	27.6	27.6
77.5°	397.9	246.5	24.5	21.5	22.5	29.7	32.7	29.7	25.6	24.5	23.5
80°	257.7	133.0	20.5	17.4	18.4	25.6	28.6	26.6	21.5	20.5	19.4
82.5°	107.4	34.8	14.3	13.3	13.3	20.5	23.5	22.5	18.4	16.4	15.3
85°	13.3	14.3	9.2	8.2	9.2	14.3	17.4	18.4	13.3	12.3	10.2
87.5°	3.1	6.1	4.1	3.1	3.1	6.1	10.2	10.2	6.1	5.1	5.1
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)