

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: P594020

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-16)
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-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G0

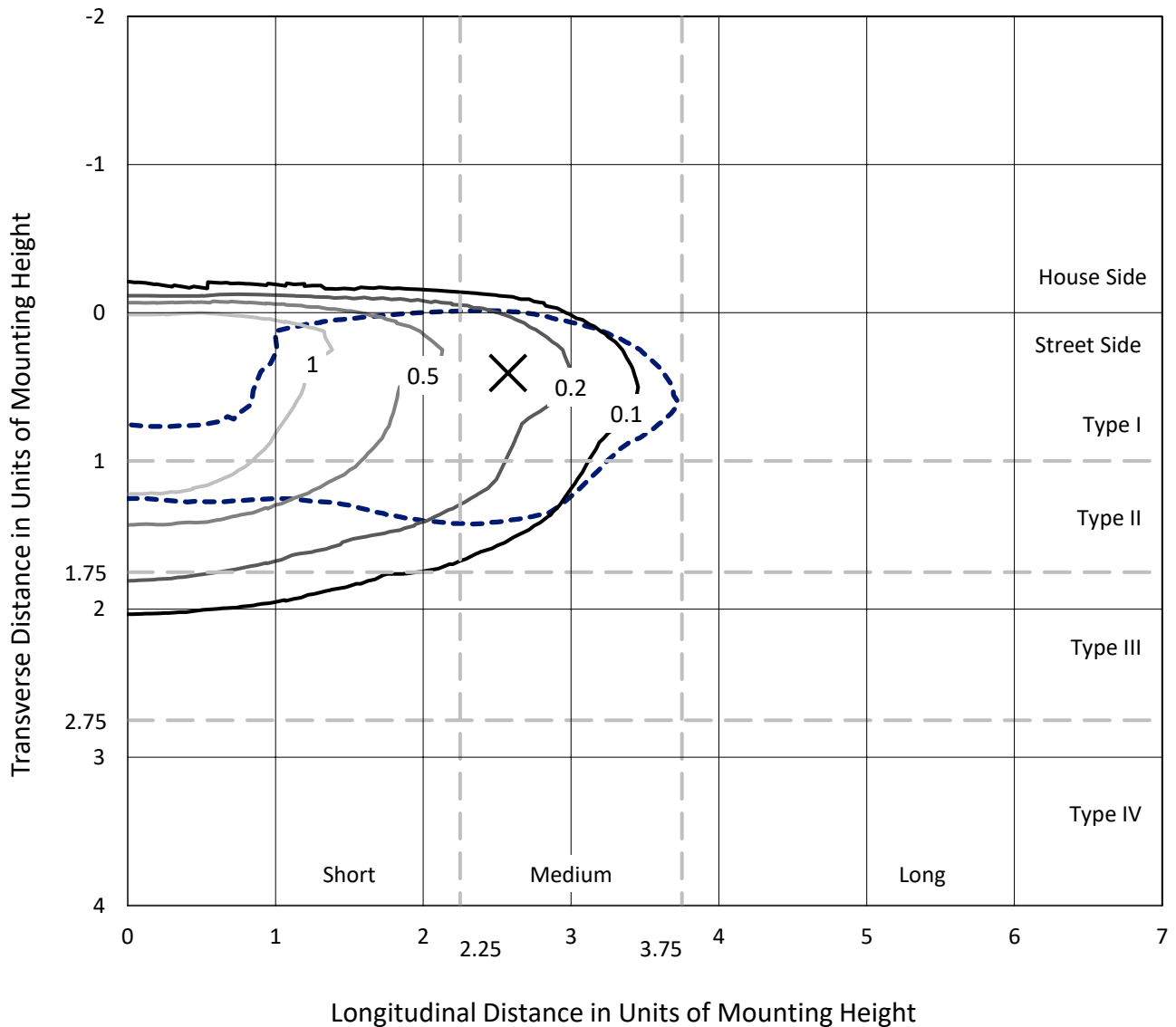
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

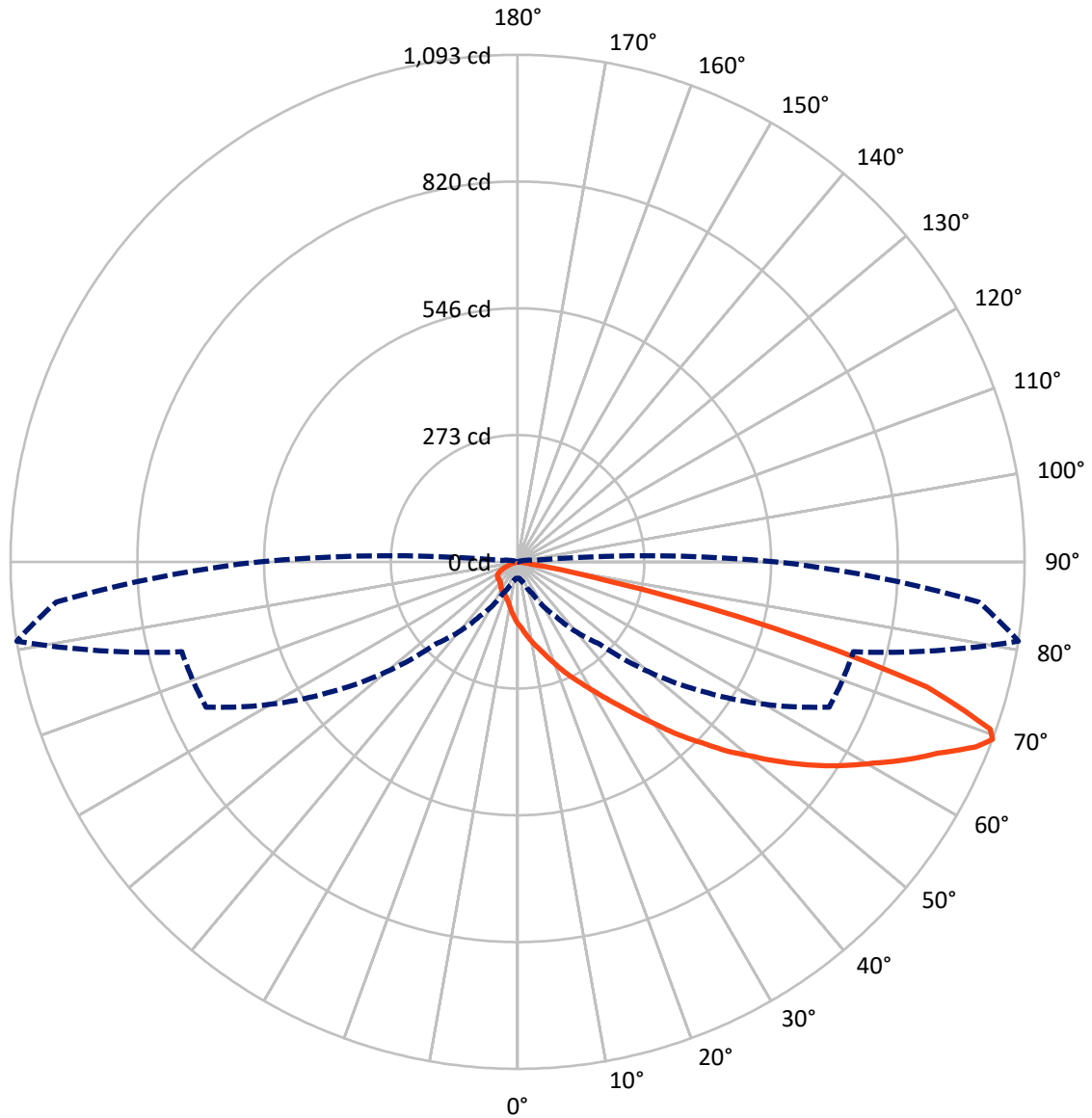
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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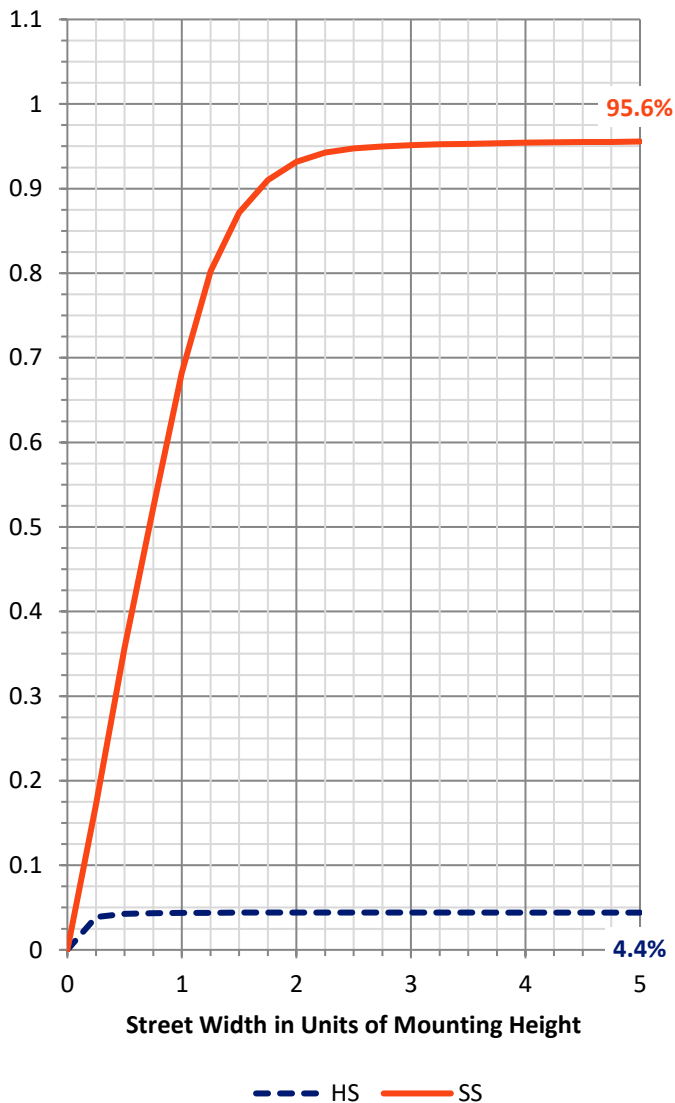
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48.5	0.0	48.5
	% Fixture	4.4	0.0	4.4
Street Side	Lumens	1049.4	0.0	1049.4
	% Fixture	95.6	0.0	95.6
Total	Lumens	1098.0	0.0	1098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	1.2
10°-20°	40.6	3.7
20°-30°	76.7	7.0
30°-40°	136.0	12.4
40°-50°	229.5	20.9
50°-60°	267.3	24.3
60°-70°	236.6	21.6
70°-80°	95.2	8.7
80°-90°	2.9	0.3
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°	1098.0	100.0
0°-180°	1098.0	100.0

Coefficient of Utilization

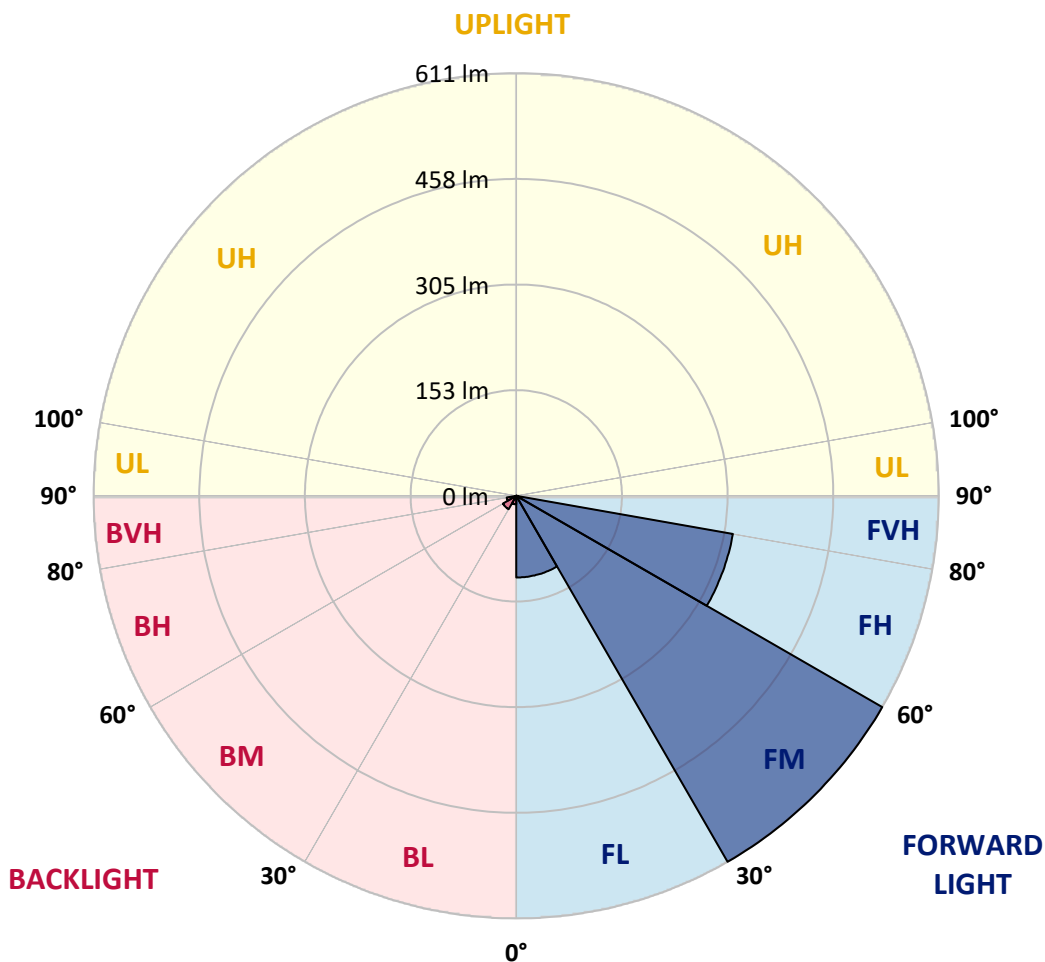


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.0	10.7			
FM (30°-60°)	610.7	55.6			
FH (60°-80°)	317.9	29.0			G0/660
FVH (80°-90°)	2.8	0.3			G0/10
BL (0°-30°)	12.3	1.1	B0/110		
BM (30°-60°)	22.2	2.0	B0/220		
BH (60°-80°)	14.0	1.3	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1
2.5°	200.6	194.6	192.5	190.5	187.5	180.4	171.4	161.3	150.2	141.1	139.1
5°	239.9	235.9	233.9	229.8	223.8	214.7	203.6	187.5	168.3	152.2	146.2
7.5°	260.1	256.1	256.1	252.0	249.0	240.9	227.8	210.7	185.5	164.3	153.2
10°	270.2	266.1	268.1	267.1	265.1	258.1	246.0	228.8	200.6	176.4	162.3
12.5°	263.1	259.1	263.1	268.1	275.2	274.2	264.1	246.0	216.7	188.5	171.4
15°	253.0	250.0	254.0	261.1	275.2	282.3	280.2	264.1	233.9	202.6	183.5
17.5°	257.1	253.0	257.1	265.1	275.2	287.3	294.4	281.3	251.0	218.8	197.6
20°	267.1	263.1	267.1	274.2	285.3	294.4	304.4	298.4	269.2	236.9	214.7
22.5°	284.3	279.2	281.3	285.3	297.4	309.5	315.5	313.5	289.3	257.1	233.9
25°	303.4	299.4	300.4	302.4	310.5	324.6	331.7	327.6	308.5	277.2	254.0
27.5°	326.6	322.6	323.6	323.6	326.6	341.7	352.8	343.8	327.6	298.4	275.2
30°	347.8	342.7	343.8	343.8	345.8	358.9	376.0	364.9	345.8	322.6	297.4
32.5°	386.1	382.1	371.0	363.9	366.9	381.1	401.2	389.1	365.9	350.8	323.6
35°	460.7	452.6	427.4	399.2	386.1	403.2	428.4	417.3	390.1	382.1	352.8
37.5°	554.4	542.3	508.1	458.7	417.3	422.4	456.7	448.6	415.3	420.4	386.1
40°	639.1	624.0	593.8	535.3	465.7	444.6	483.9	481.9	444.6	461.7	426.4
42.5°	695.6	683.5	661.3	610.9	532.3	475.8	506.1	516.1	477.8	510.1	466.7
45°	706.7	695.6	686.5	659.3	600.8	526.2	526.2	549.4	511.1	556.5	507.1
47.5°	679.4	671.4	676.4	673.4	645.2	577.6	551.4	580.6	543.4	609.9	550.4
50°	611.9	611.9	639.1	657.3	658.3	623.0	584.7	607.9	580.6	660.3	598.8
52.5°	476.8	480.9	553.4	610.9	641.1	646.2	625.0	633.1	617.9	717.7	647.2
55°	363.9	364.9	418.3	528.2	599.8	641.1	664.3	654.2	652.2	774.2	698.6
57.5°	317.5	314.5	333.7	407.3	519.2	614.9	686.5	679.4	677.4	828.6	754.0
60°	279.2	277.2	291.3	324.6	418.3	565.5	679.4	709.7	698.6	881.1	807.5
62.5°	212.7	211.7	233.9	273.2	337.7	486.9	662.3	737.9	715.7	939.5	864.9
65°	124.0	125.0	148.2	201.6	270.2	386.1	629.0	759.1	730.9	995.0	922.4
67.5°	51.4	53.4	71.6	117.9	192.5	296.4	547.4	765.1	744.0	1064.5	985.9
69°	35.3	35.3	45.4	75.6	144.2	251.0	486.9	740.9	749.0	1092.7	998.0
70°	29.2	30.2	35.3	54.4	111.9	216.7	434.5	706.7	744.0	1080.7	972.8
72.5°	20.2	20.2	24.2	29.2	51.4	124.0	287.3	540.3	654.2	923.4	798.4
75°	16.1	15.1	19.2	22.2	27.2	54.4	131.0	312.5	440.5	568.6	447.6
77.5°	12.1	12.1	14.1	16.1	19.2	26.2	36.3	110.9	198.6	202.6	148.2
80°	8.1	8.1	10.1	12.1	16.1	18.1	11.1	22.2	41.3	28.2	18.1
82.5°	4.0	4.0	7.1	10.1	12.1	9.1	6.0	7.1	8.1	6.0	5.0
85°	1.0	1.0	5.0	7.1	6.0	3.0	3.0	3.0	3.0	2.0	2.0
87.5°	0.0	0.0	2.0	3.0	1.0	0.0	1.0	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1
2.5°	134.1	129.0	117.9	107.9	99.8	90.7	82.7	77.6	73.6	71.6	70.6
5°	135.1	124.0	102.8	81.7	62.5	48.4	38.3	32.3	28.2	27.2	28.2
7.5°	137.1	120.0	87.7	56.5	35.3	25.2	22.2	20.2	19.2	19.2	19.2
10°	140.1	116.9	71.6	37.3	23.2	20.2	18.1	17.1	16.1	16.1	16.1
12.5°	145.2	114.9	56.5	26.2	19.2	18.1	16.1	15.1	14.1	14.1	14.1
15°	150.2	112.9	44.4	21.2	17.1	16.1	14.1	13.1	12.1	12.1	12.1
17.5°	158.3	111.9	35.3	19.2	16.1	14.1	12.1	10.1	10.1	9.1	9.1
20°	169.4	110.9	28.2	17.1	15.1	12.1	10.1	8.1	8.1	7.1	7.1
22.5°	181.5	110.9	24.2	16.1	13.1	10.1	8.1	6.0	6.0	6.0	6.0
25°	193.5	109.9	20.2	14.1	11.1	8.1	6.0	5.0	4.0	4.0	4.0
27.5°	205.6	107.9	17.1	12.1	9.1	7.1	5.0	4.0	4.0	3.0	3.0
30°	217.7	104.8	15.1	11.1	7.1	6.0	4.0	3.0	3.0	3.0	3.0
32.5°	229.8	101.8	14.1	9.1	6.0	4.0	3.0	2.0	2.0	2.0	2.0
35°	245.0	97.8	13.1	8.1	5.0	4.0	2.0	2.0	2.0	2.0	2.0
37.5°	260.1	93.8	11.1	7.1	4.0	3.0	2.0	1.0	1.0	1.0	1.0
40°	278.2	90.7	10.1	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
42.5°	300.4	88.7	9.1	5.0	3.0	2.0	1.0	0.0	0.0	1.0	1.0
45°	324.6	87.7	8.1	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
47.5°	349.8	86.7	8.1	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
50°	380.0	86.7	7.1	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
52.5°	408.3	86.7	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
55°	436.5	84.7	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	466.7	81.7	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	498.0	76.6	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	531.3	67.5	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	558.5	55.4	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	578.6	43.3	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	556.5	34.3	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	520.2	29.2	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	373.0	15.1	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	166.3	9.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	48.4	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)