

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: P#

Luminaire Tested: **ARCH2-30-AMB-U-T4W-PFS**

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ARCH2-30-AMB-U-T4W-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV
WIDE OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

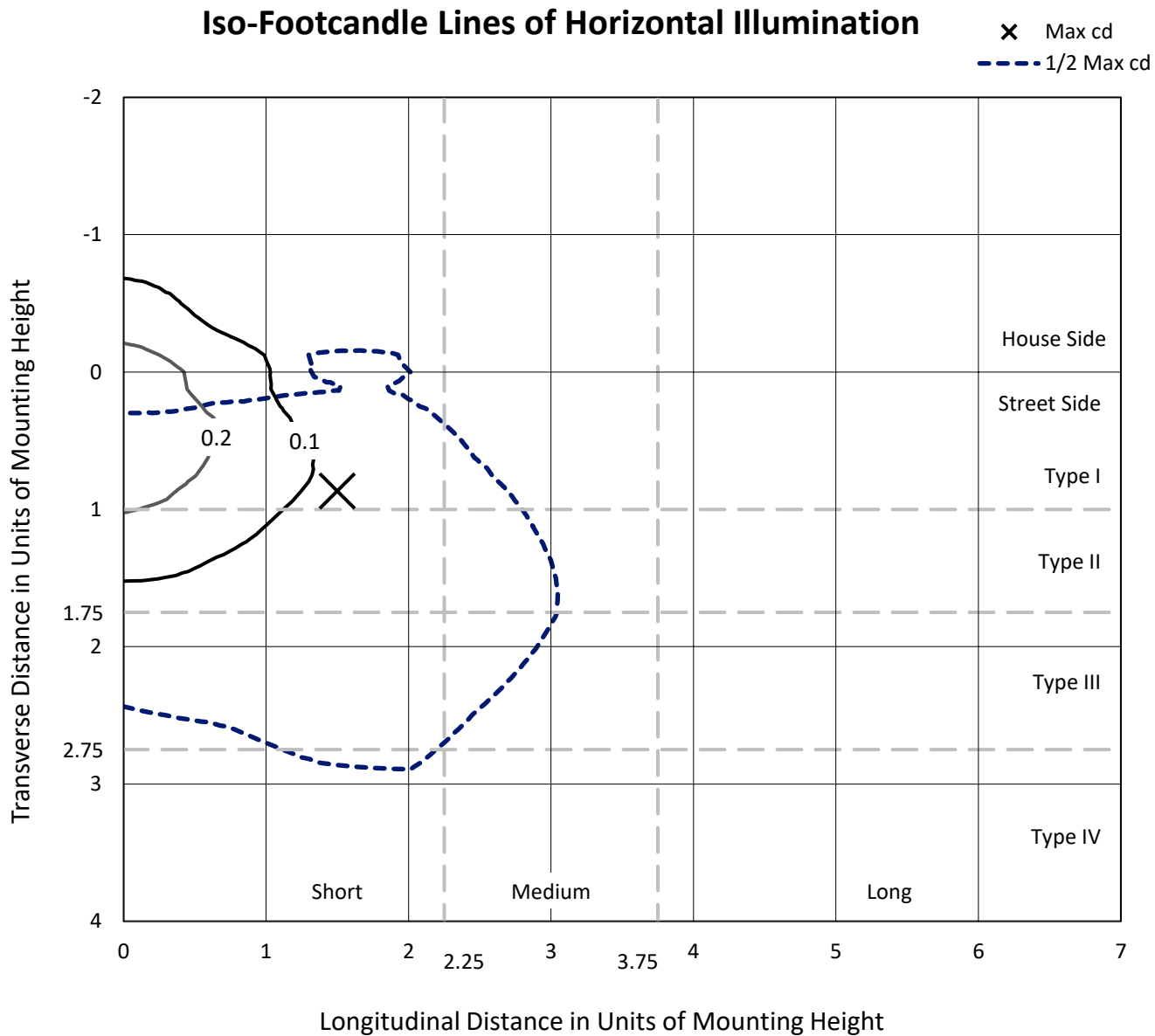
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 854 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 29.5
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: 24 FT

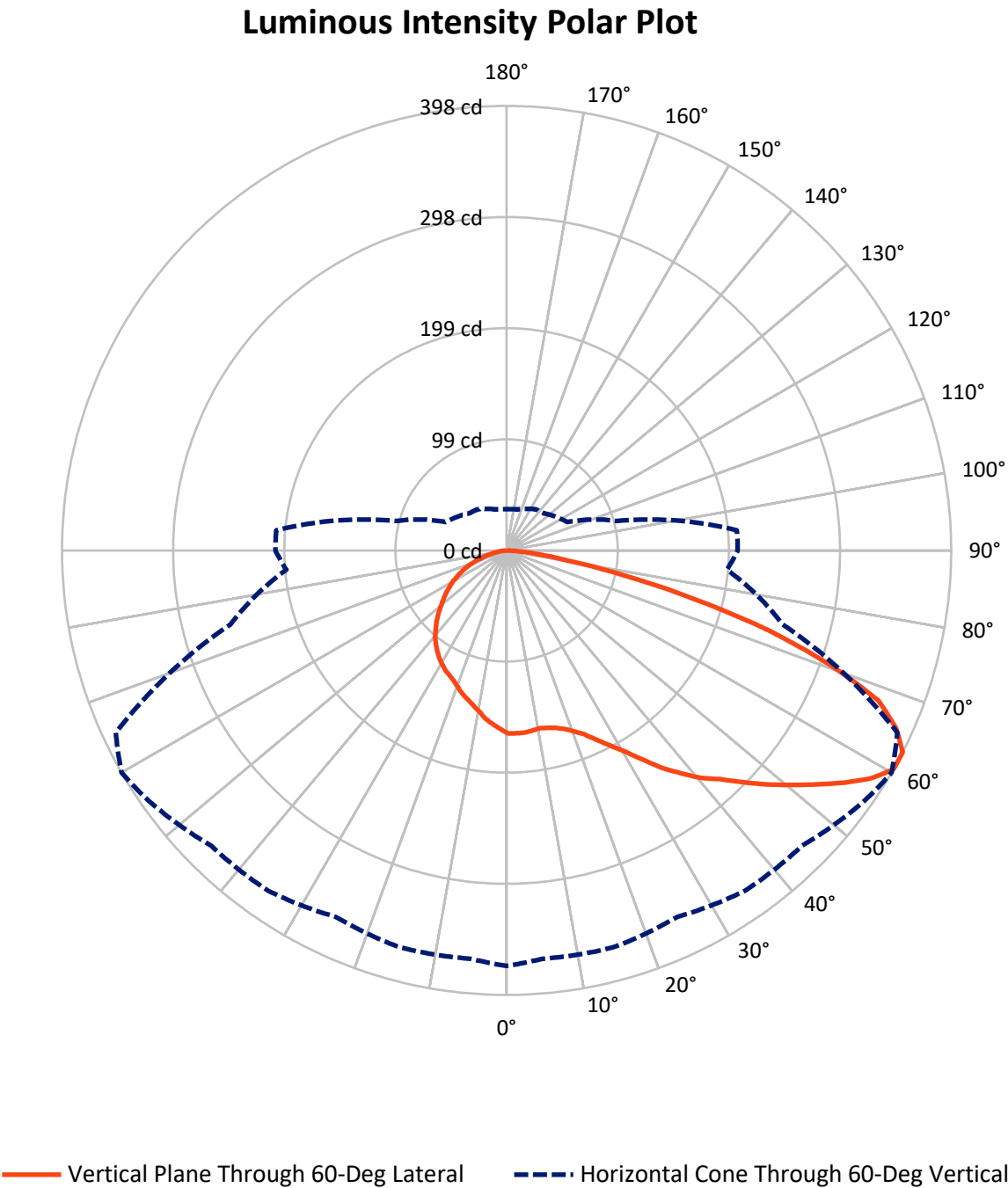


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Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
Type IV - Short - N/A

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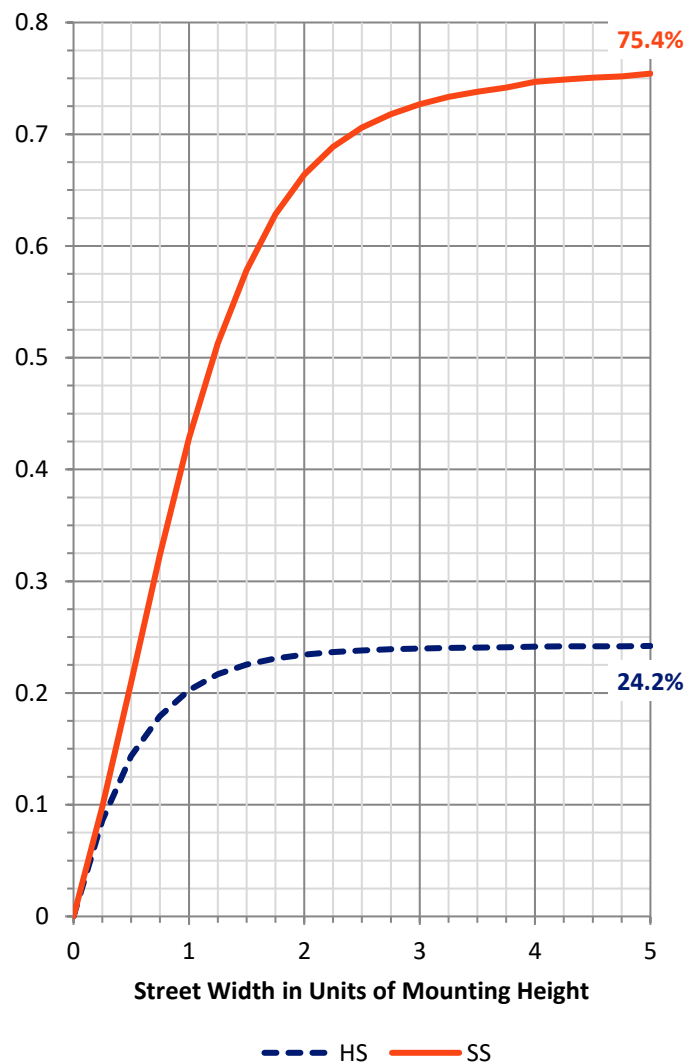
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	208.1	0.0	208.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	646.0	0.0	646.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	854.0	0.0	854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	1.8
10°-20°	44.5	5.2
20°-30°	76.3	8.9
30°-40°	113.3	13.3
40°-50°	152.8	17.9
50°-60°	185.2	21.7
60°-70°	174.3	20.4
70°-80°	82.0	9.6
80°-90°	10.7	1.2
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°	854.0	100.0
0°-180°	854.0	100.0

Coefficient of Utilization



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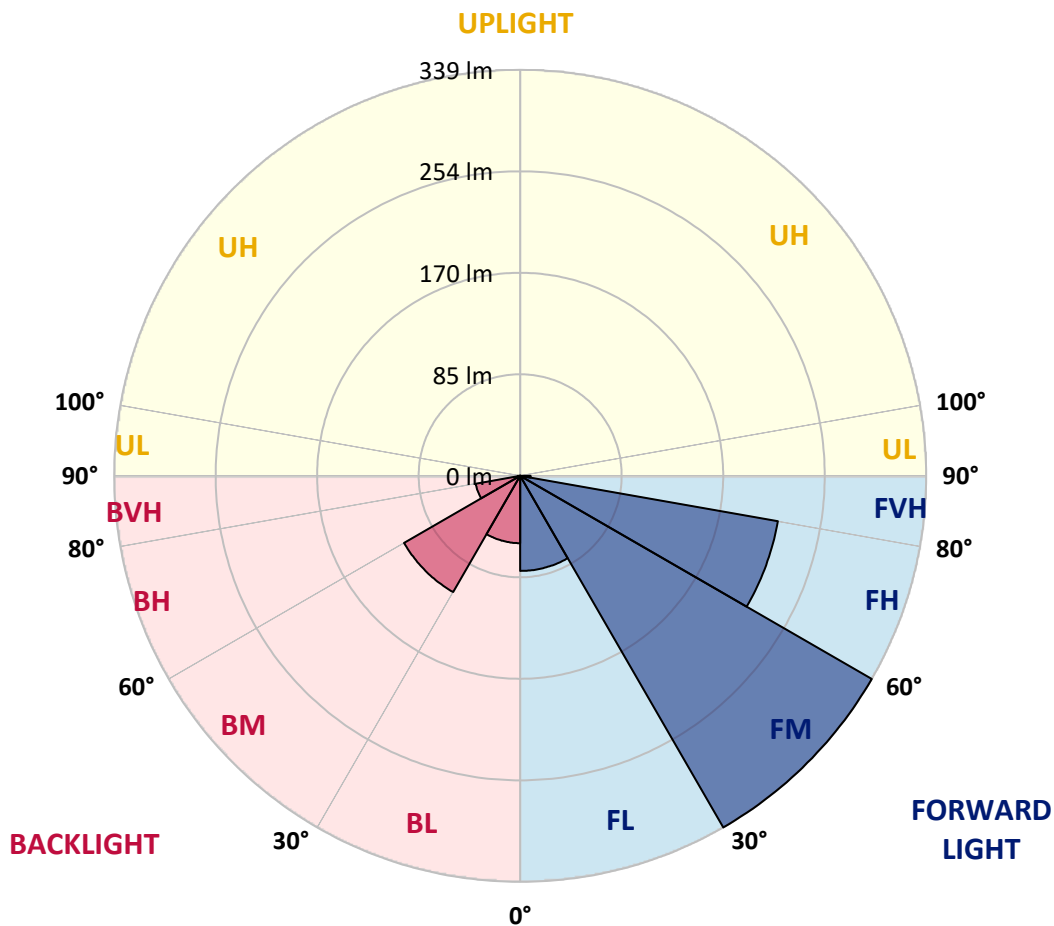
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.5	9.3			
FM	(30°-60°)	339.2	39.7			
FH	(60°-80°)	218.6	25.6			G0/660
FVH	(80°-90°)	8.6	1.0			G0/10
BL	(0°-30°)	56.3	6.6	B0/110		
BM	(30°-60°)	112.1	13.1	B0/220		
BH	(60°-80°)	37.7	4.4	B0/110		G0/110
BVH	(80°-90°)	2.0	0.2			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	164.9	164.9	164.9	164.9	164.9	163.9	163.9	163.9	162.9	162.9	162.9
5°	163.9	164.9	164.9	164.9	164.9	163.9	163.9	163.9	162.9	162.9	161.9
7.5°	165.9	165.9	165.9	164.9	164.9	162.9	162.9	162.9	161.9	161.9	161.9
10°	170.9	170.9	169.9	167.9	166.9	163.9	161.9	161.9	160.9	160.9	159.9
12.5°	180.9	180.9	177.9	175.9	171.9	166.9	163.9	162.9	160.9	160.9	158.9
15°	193.9	193.9	190.9	186.9	180.9	172.9	166.9	164.9	161.9	160.9	159.9
17.5°	204.9	206.9	202.9	198.9	191.9	181.9	171.9	167.9	163.9	161.9	159.9
20°	212.9	214.9	211.9	208.9	201.9	190.9	177.9	172.9	166.9	161.9	159.9
22.5°	216.9	217.9	216.9	214.9	210.9	200.9	185.9	178.9	171.9	163.9	160.9
25°	220.9	222.9	220.9	218.9	217.9	209.9	195.9	187.9	177.9	165.9	161.9
27.5°	231.9	232.9	229.9	225.9	224.9	219.9	206.9	197.9	185.9	169.9	163.9
30°	250.9	250.9	246.9	236.9	231.9	227.9	218.9	208.9	194.9	173.9	165.9
32.5°	274.9	275.9	269.9	254.9	243.9	239.9	231.9	222.9	206.9	178.9	167.9
35°	297.9	298.9	292.9	273.9	260.9	252.9	247.9	238.9	219.9	184.9	169.9
37.5°	317.9	317.9	311.9	291.9	278.9	265.9	261.9	252.9	230.9	187.9	170.9
40°	336.9	335.9	327.9	304.9	295.9	279.9	274.9	267.9	245.9	194.9	173.9
42.5°	348.9	344.9	337.9	315.9	308.9	295.9	286.9	279.9	261.9	201.9	175.9
45°	364.9	356.9	345.9	328.9	320.9	311.9	300.9	295.9	276.9	209.9	179.9
47.5°	368.9	359.9	352.9	343.9	331.9	325.9	314.9	312.9	292.9	218.9	182.9
50°	369.9	362.9	362.9	349.9	342.9	335.9	331.9	329.9	309.9	226.9	186.9
52.5°	363.9	364.9	367.9	354.9	353.9	347.9	348.9	347.9	327.9	234.9	190.9
55°	372.9	374.9	374.9	359.9	363.9	358.9	364.9	366.9	347.9	244.9	194.9
57.5°	380.9	380.9	380.9	368.9	372.9	368.9	380.9	384.9	368.9	251.9	197.9
60°	371.9	366.9	367.9	361.9	371.9	373.9	390.9	397.9	385.9	255.9	197.9
62.5°	331.9	333.9	335.9	335.9	356.9	367.9	387.9	397.9	390.9	255.9	193.9
65°	272.9	281.9	289.9	309.9	330.9	356.9	373.9	382.9	378.9	247.9	184.9
67.5°	200.9	212.9	233.9	276.9	305.9	334.9	356.9	358.9	344.9	218.9	158.0
70°	149.0	158.9	186.9	235.9	270.9	291.9	322.9	307.9	281.9	179.9	127.0
72.5°	103.0	110.0	144.0	194.9	231.9	236.9	255.9	245.9	215.9	140.0	101.0
75°	66.0	71.0	98.0	146.0	182.9	174.9	169.9	172.9	159.9	108.0	76.0
77.5°	43.0	46.0	60.0	91.0	118.0	119.0	105.0	107.0	107.0	77.0	57.0
80°	26.0	28.0	37.0	52.0	60.0	71.0	62.0	57.0	55.0	48.0	39.0
82.5°	13.0	14.0	20.0	28.0	29.0	31.0	31.0	30.0	29.0	29.0	26.0
85°	4.0	4.0	6.0	9.0	9.0	11.0	14.0	13.0	13.0	14.0	14.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.0	3.0	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°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	162.9	161.9	160.9	159.9	159.9	159.9	158.0	158.0	158.0	158.0	158.0
5°	161.9	160.9	159.9	157.0	155.0	154.0	152.0	151.0	150.0	149.0	149.0
7.5°	160.9	159.9	157.0	154.0	150.0	147.0	143.0	142.0	141.0	140.0	140.0
10°	159.9	158.0	155.0	149.0	144.0	140.0	136.0	134.0	133.0	133.0	133.0
12.5°	158.9	157.0	152.0	145.0	139.0	134.0	131.0	130.0	130.0	130.0	130.0
15°	158.9	157.0	150.0	142.0	134.0	130.0	128.0	129.0	129.0	130.0	130.0
17.5°	158.9	156.0	148.0	138.0	131.0	128.0	127.0	128.0	130.0	131.0	131.0
20°	158.9	156.0	146.0	133.0	127.0	125.0	126.0	128.0	130.0	131.0	131.0
22.5°	159.9	157.0	144.0	129.0	123.0	123.0	125.0	127.0	127.0	129.0	129.0
25°	160.9	157.0	142.0	126.0	120.0	120.0	122.0	123.0	123.0	124.0	125.0
27.5°	162.9	158.0	141.0	124.0	117.0	117.0	117.0	119.0	120.0	121.0	122.0
30°	164.9	159.9	141.0	121.0	113.0	111.0	112.0	114.0	115.0	117.0	118.0
32.5°	166.9	161.9	140.0	118.0	109.0	105.0	106.0	109.0	111.0	113.0	114.0
35°	167.9	163.9	140.0	115.0	104.0	98.0	99.0	104.0	106.0	108.0	109.0
37.5°	170.9	167.9	142.0	112.0	98.0	91.0	94.0	100.0	101.0	102.0	103.0
40°	174.9	172.9	143.0	109.0	92.0	85.0	88.0	94.0	97.0	98.0	99.0
42.5°	177.9	177.9	144.0	104.0	85.0	80.0	83.0	90.0	93.0	93.0	94.0
45°	182.9	183.9	145.0	99.0	80.0	76.0	78.0	85.0	87.0	87.0	87.0
47.5°	187.9	189.9	144.0	92.0	75.0	72.0	74.0	79.0	80.0	80.0	80.0
50°	192.9	195.9	140.0	85.0	70.0	69.0	68.0	70.0	69.0	69.0	69.0
52.5°	197.9	202.9	134.0	78.0	66.0	64.0	62.0	61.0	60.0	58.0	59.0
55°	203.9	206.9	126.0	72.0	62.0	59.0	55.0	53.0	51.0	51.0	51.0
57.5°	206.9	208.9	115.0	66.0	57.0	53.0	49.0	47.0	45.0	44.0	44.0
60°	206.9	206.9	102.0	60.0	53.0	47.0	45.0	41.0	38.0	37.0	37.0
62.5°	203.9	199.9	87.0	54.0	47.0	42.0	40.0	35.0	31.0	30.0	29.0
65°	191.9	179.9	73.0	49.0	41.0	38.0	34.0	30.0	25.0	24.0	23.0
67.5°	160.9	139.0	60.0	43.0	36.0	32.0	29.0	24.0	20.0	19.0	19.0
70°	127.0	103.0	48.0	35.0	31.0	26.0	24.0	18.0	13.0	12.0	11.0
72.5°	97.0	76.0	39.0	28.0	24.0	20.0	17.0	13.0	9.0	7.0	7.0
75°	74.0	57.0	33.0	23.0	19.0	13.0	13.0	10.0	6.0	5.0	5.0
77.5°	55.0	43.0	26.0	18.0	12.0	10.0	8.0	7.0	3.0	1.0	1.0
80°	36.0	29.0	18.0	12.0	8.0	6.0	4.0	4.0	1.0	0.0	0.0
82.5°	25.0	19.0	12.0	8.0	5.0	3.0	3.0	2.0	1.0	0.0	0.0
85°	14.0	10.0	7.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
87.5°	3.0	2.0	2.0	2.0	1.0	1.0	1.0	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)