

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-T3-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 (G2-2406-129-9)
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-T3-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 892 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

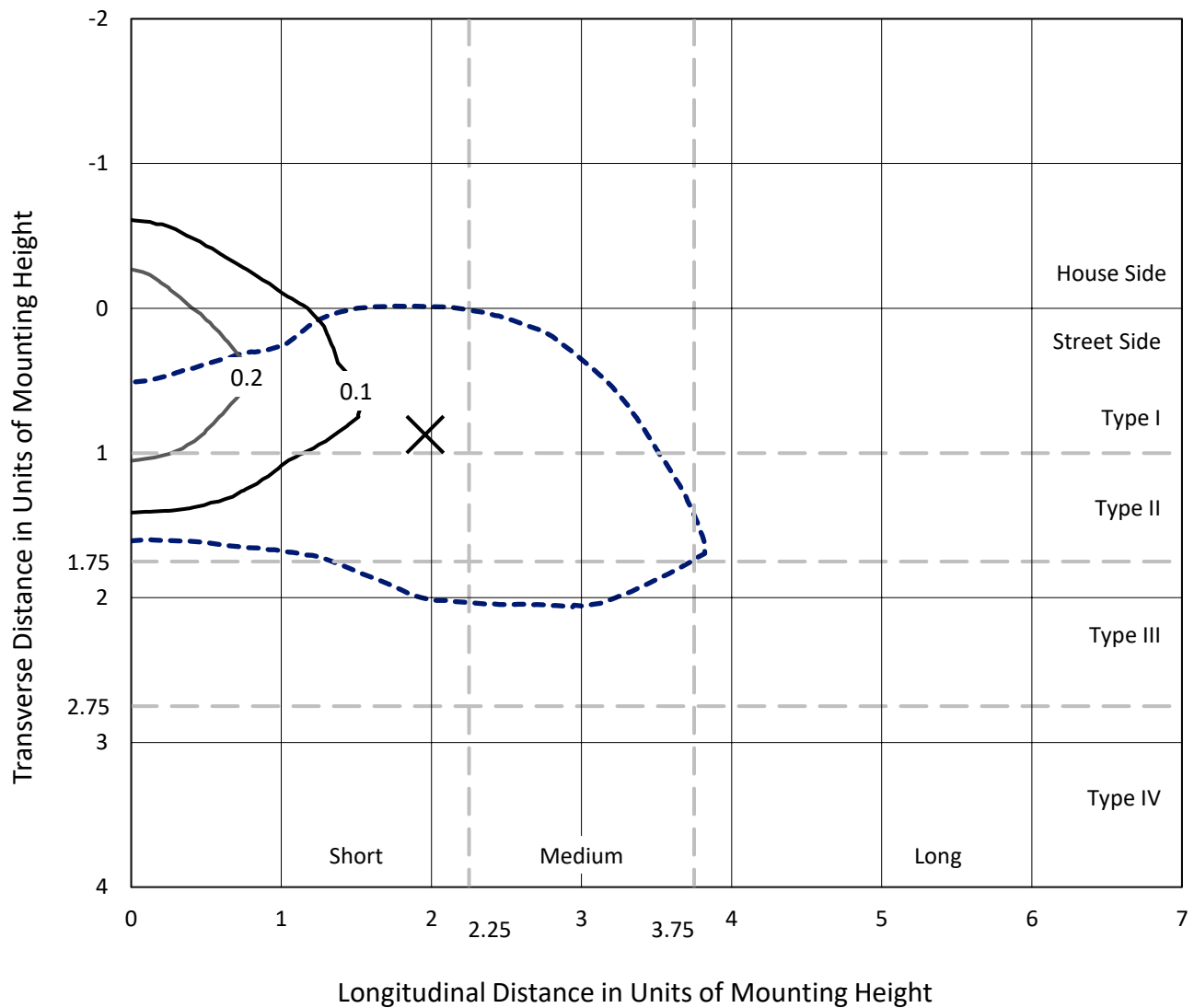
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

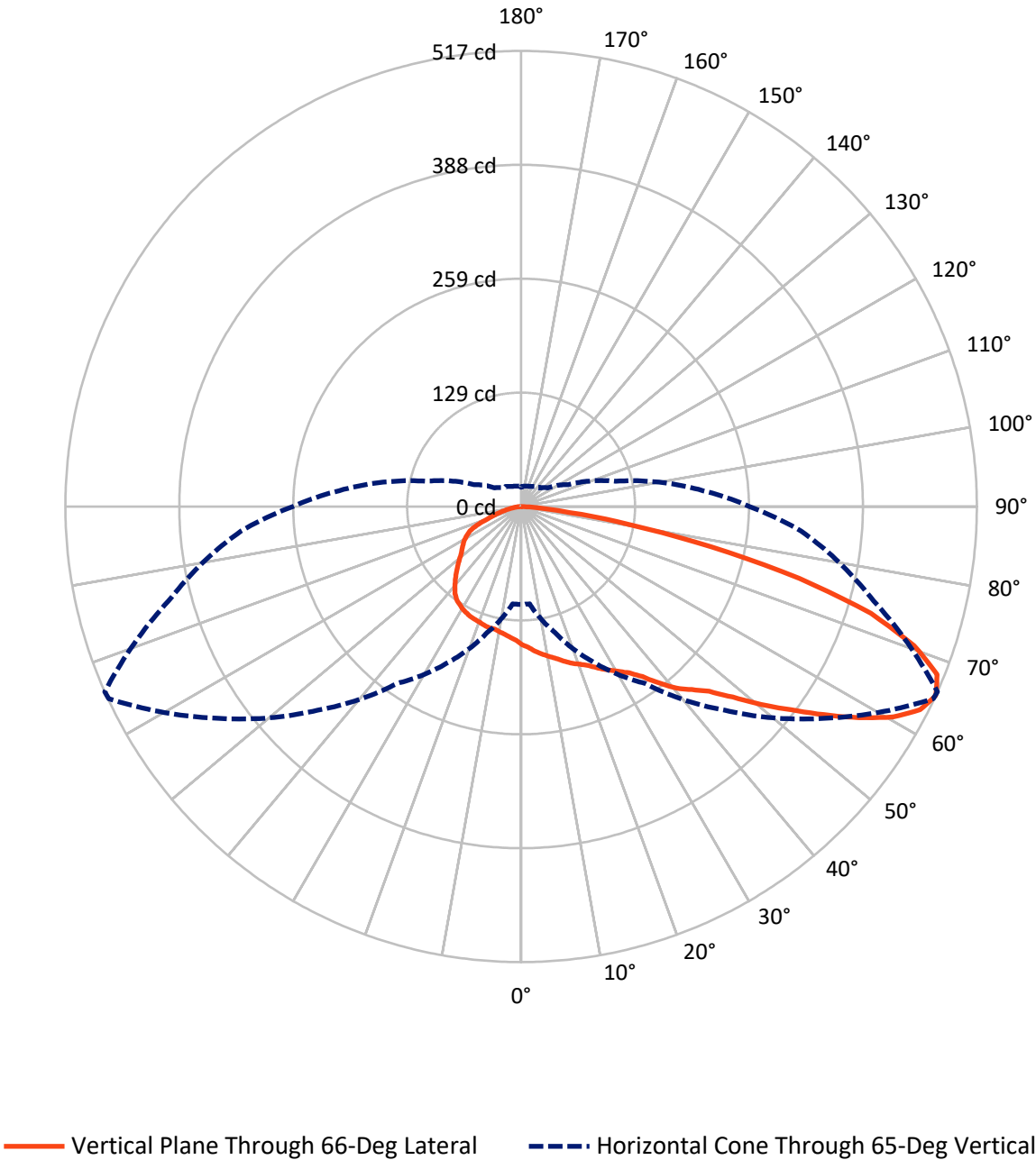
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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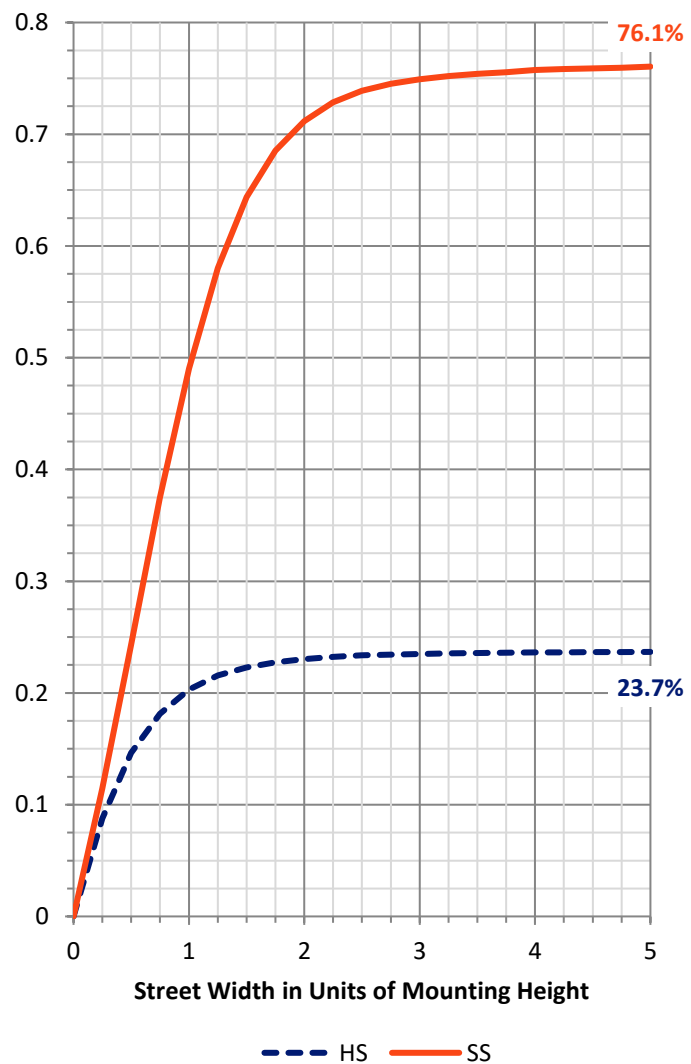
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.6	0.0	212.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	679.4	0.0	679.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	892.0	0.0	892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	1.7
10°-20°	47.8	5.4
20°-30°	80.9	9.1
30°-40°	121.4	13.6
40°-50°	163.0	18.3
50°-60°	190.5	21.4
60°-70°	174.7	19.6
70°-80°	87.5	9.8
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°	892.0	100.0
0°-180°	892.0	100.0

Coefficient of Utilization



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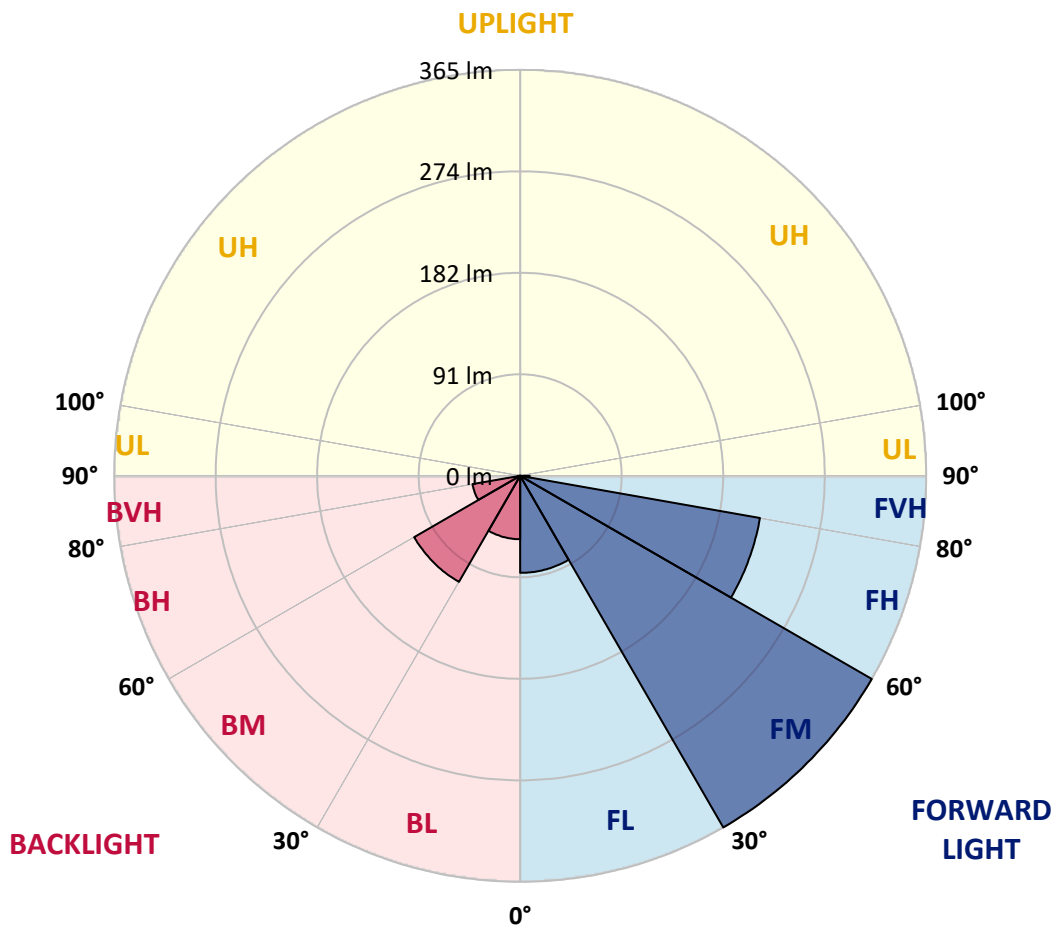
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.2	9.8			
FM	(30°-60°)	364.8	40.9			
FH	(60°-80°)	218.8	24.5			G0/660
FVH	(80°-90°)	8.5	1.0			G0/10
BL	(0°-30°)	57.0	6.4	B0/110		
BM	(30°-60°)	110.0	12.3	B0/220		
BH	(60°-80°)	43.5	4.9	B0/110		G0/110
BVH	(80°-90°)	2.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0
2.5°	167.0	168.0	168.0	167.0	166.0	164.0	162.0	160.0	160.0	158.0	157.0
5°	179.0	181.1	180.1	178.0	176.0	173.0	169.0	165.0	165.0	161.0	158.0
7.5°	192.1	193.1	193.1	190.1	186.1	181.1	176.0	170.0	169.0	164.0	158.0
10°	203.1	204.1	203.1	200.1	195.1	188.1	181.1	173.0	173.0	165.0	158.0
12.5°	210.1	211.1	211.1	208.1	203.1	196.1	187.1	177.0	177.0	168.0	159.0
15°	214.1	214.1	216.1	214.1	211.1	205.1	195.1	183.1	182.1	171.0	160.0
17.5°	214.1	215.1	217.1	218.1	218.1	213.1	202.1	188.1	187.1	173.0	161.0
20°	214.1	214.1	217.1	220.1	222.1	219.1	209.1	193.1	191.1	176.0	162.0
22.5°	218.1	218.1	220.1	222.1	225.1	225.1	216.1	198.1	196.1	179.0	164.0
25°	234.1	235.1	234.1	230.1	232.1	232.1	223.1	204.1	203.1	183.1	167.0
27.5°	262.1	262.1	260.1	251.1	247.1	242.1	231.1	212.1	210.1	188.1	170.0
30°	288.1	289.1	288.1	277.1	267.1	254.1	240.1	219.1	217.1	192.1	175.0
32.5°	309.1	310.1	311.1	303.1	289.1	268.1	254.1	227.1	225.1	199.1	181.1
35°	320.1	321.1	324.1	319.1	303.1	284.1	270.1	239.1	237.1	209.1	191.1
37.5°	326.1	327.1	331.1	326.1	309.1	298.1	287.1	256.1	254.1	219.1	199.1
40°	351.1	349.1	351.1	336.1	313.1	308.1	305.1	274.1	271.1	230.1	210.1
42.5°	372.1	372.1	371.1	347.1	323.1	320.1	321.1	288.1	284.1	236.1	213.1
45°	380.1	376.1	372.1	354.1	343.1	327.1	334.1	303.1	299.1	250.1	224.1
47.5°	385.1	380.1	376.1	363.1	357.1	339.1	349.1	327.1	323.1	266.1	237.1
50°	379.1	373.1	375.1	368.1	367.1	348.1	364.1	357.1	353.1	285.1	256.1
52.5°	357.1	355.1	362.1	366.1	361.1	352.1	380.1	389.1	383.1	305.1	272.1
55°	316.1	316.1	335.1	351.1	355.1	355.1	397.1	422.1	417.1	328.1	286.1
57.5°	272.1	270.1	288.1	326.1	342.1	358.1	412.1	457.1	452.1	351.1	297.1
60°	213.1	213.1	236.1	281.1	322.1	358.1	425.1	490.1	485.1	375.1	306.1
62.5°	159.0	159.0	193.1	231.1	285.1	348.1	429.1	510.1	508.1	396.1	313.1
65°	111.0	111.0	148.0	195.1	245.1	327.1	419.1	516.1	517.1	414.1	319.1
67.5°	62.0	63.0	102.0	151.0	208.1	302.1	393.1	503.1	509.1	417.1	306.1
70°	37.0	37.0	65.0	105.0	158.0	274.1	357.1	466.1	473.1	382.1	277.1
72.5°	28.0	28.0	46.0	70.0	103.0	212.1	307.1	403.1	415.1	321.1	221.1
75°	22.0	22.0	30.0	46.0	64.0	121.0	244.1	316.1	326.1	238.1	167.0
77.5°	17.0	18.0	20.0	28.0	36.0	59.0	143.0	209.1	220.1	164.0	121.0
80°	12.0	12.0	13.0	17.0	20.0	27.0	64.0	115.0	124.0	101.0	80.0
82.5°	6.0	6.0	7.0	9.0	10.0	14.0	28.0	53.0	56.0	55.0	49.0
85°	3.0	3.0	3.0	3.0	4.0	6.0	12.0	18.0	19.0	24.0	20.0
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°	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0
2.5°	156.0	155.0	154.0	152.0	152.0	151.0	149.0	149.0	149.0	149.0	148.0
5°	157.0	155.0	152.0	149.0	148.0	147.0	145.0	145.0	145.0	145.0	145.0
7.5°	156.0	153.0	150.0	146.0	145.0	144.0	143.0	142.0	143.0	143.0	142.0
10°	155.0	152.0	148.0	144.0	142.0	141.0	140.0	140.0	140.0	141.0	141.0
12.5°	155.0	151.0	146.0	142.0	141.0	140.0	139.0	139.0	139.0	140.0	140.0
15°	155.0	151.0	145.0	142.0	140.0	139.0	139.0	138.0	139.0	141.0	140.0
17.5°	155.0	150.0	144.0	141.0	139.0	139.0	138.0	137.0	137.0	139.0	139.0
20°	156.0	150.0	144.0	139.0	138.0	137.0	136.0	133.0	133.0	134.0	135.0
22.5°	157.0	150.0	143.0	138.0	136.0	133.0	131.0	128.0	125.0	126.0	126.0
25°	159.0	152.0	143.0	137.0	132.0	129.0	124.0	121.0	117.0	116.0	117.0
27.5°	162.0	154.0	143.0	135.0	128.0	123.0	117.0	111.0	109.0	107.0	108.0
30°	166.0	156.0	143.0	133.0	123.0	114.0	107.0	103.0	101.0	102.0	102.0
32.5°	172.0	160.0	143.0	130.0	116.0	105.0	100.0	98.0	97.0	97.0	98.0
35°	179.0	166.0	144.0	127.0	109.0	97.0	94.0	95.0	94.0	93.0	94.0
37.5°	188.1	174.0	146.0	122.0	102.0	90.0	89.0	91.0	92.0	92.0	92.0
40°	198.1	182.1	146.0	115.0	94.0	85.0	84.0	89.0	90.0	89.0	89.0
42.5°	199.1	178.0	142.0	108.0	87.0	80.0	79.0	85.0	86.0	85.0	85.0
45°	207.1	183.1	139.0	101.0	80.0	75.0	73.0	79.0	83.0	82.0	81.0
47.5°	219.1	190.1	136.0	94.0	75.0	69.0	68.0	73.0	74.0	74.0	72.0
50°	231.1	196.1	133.0	87.0	69.0	64.0	62.0	63.0	64.0	63.0	62.0
52.5°	244.1	202.1	131.0	81.0	64.0	58.0	54.0	54.0	53.0	51.0	51.0
55°	253.1	205.1	128.0	77.0	59.0	51.0	48.0	45.0	45.0	44.0	45.0
57.5°	260.1	207.1	126.0	73.0	54.0	45.0	41.0	39.0	40.0	40.0	40.0
60°	262.1	208.1	123.0	69.0	49.0	39.0	36.0	34.0	35.0	35.0	35.0
62.5°	261.1	208.1	118.0	64.0	43.0	34.0	32.0	29.0	29.0	29.0	29.0
65°	259.1	207.1	111.0	59.0	37.0	30.0	28.0	25.0	24.0	23.0	22.0
67.5°	245.1	194.1	97.0	50.0	32.0	27.0	23.0	19.0	18.0	17.0	17.0
70°	218.1	169.0	72.0	38.0	28.0	22.0	18.0	15.0	13.0	11.0	11.0
72.5°	183.1	136.0	54.0	29.0	21.0	17.0	13.0	10.0	7.0	6.0	6.0
75°	148.0	100.0	40.0	23.0	16.0	11.0	9.0	7.0	5.0	4.0	4.0
77.5°	113.0	69.0	27.0	16.0	10.0	7.0	6.0	5.0	3.0	2.0	2.0
80°	72.0	42.0	18.0	11.0	7.0	5.0	3.0	2.0	1.0	0.0	0.0
82.5°	40.0	24.0	11.0	7.0	4.0	3.0	2.0	2.0	1.0	0.0	0.0
85°	17.0	12.0	7.0	3.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	4.0	3.0	2.0	1.0	1.0	1.0	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)