

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-T2R-HSS**

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 (G2-2406-129-5)
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-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

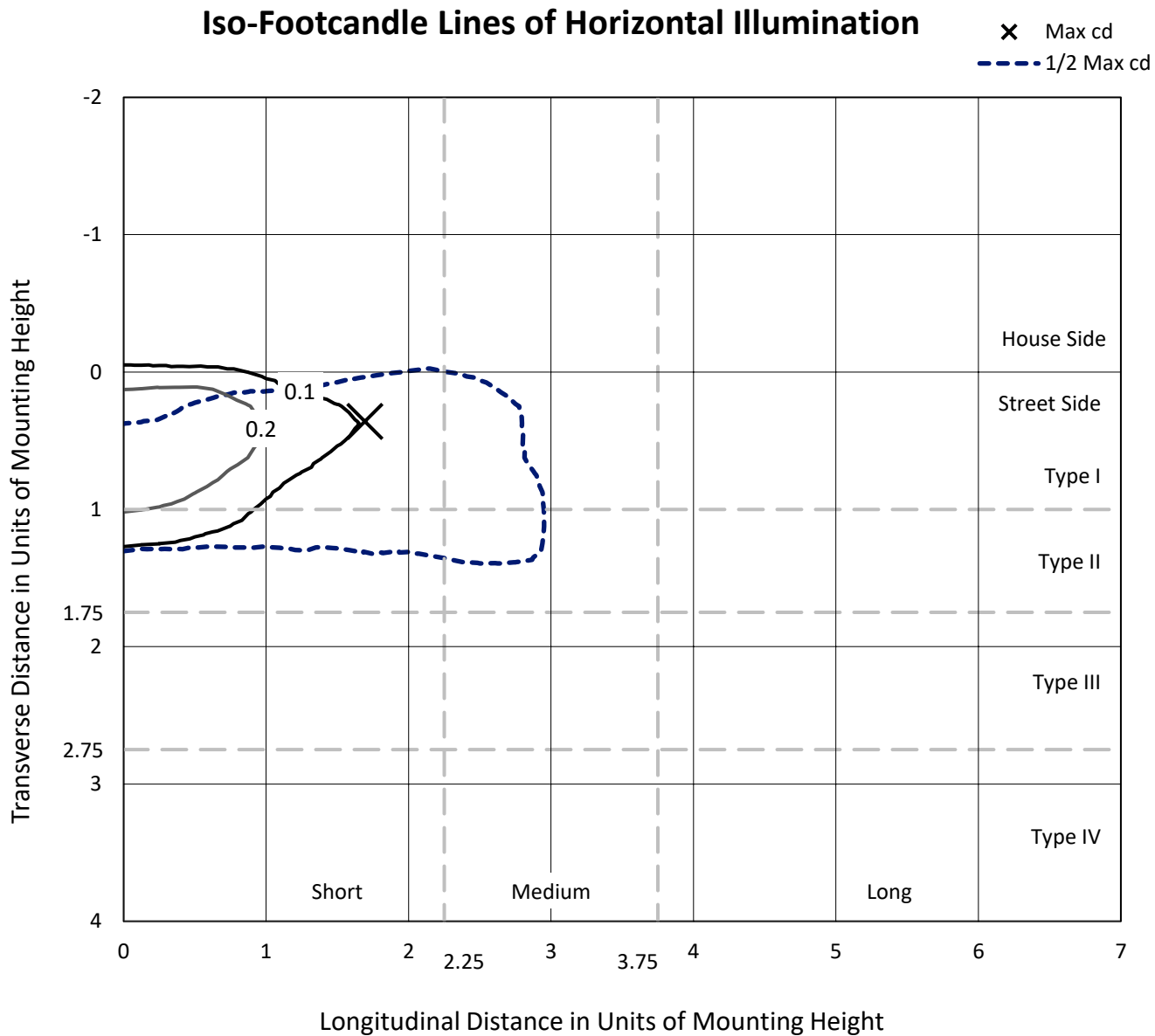
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 653 lumens
Efficiency: N/A
Efficacy: 22.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - 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



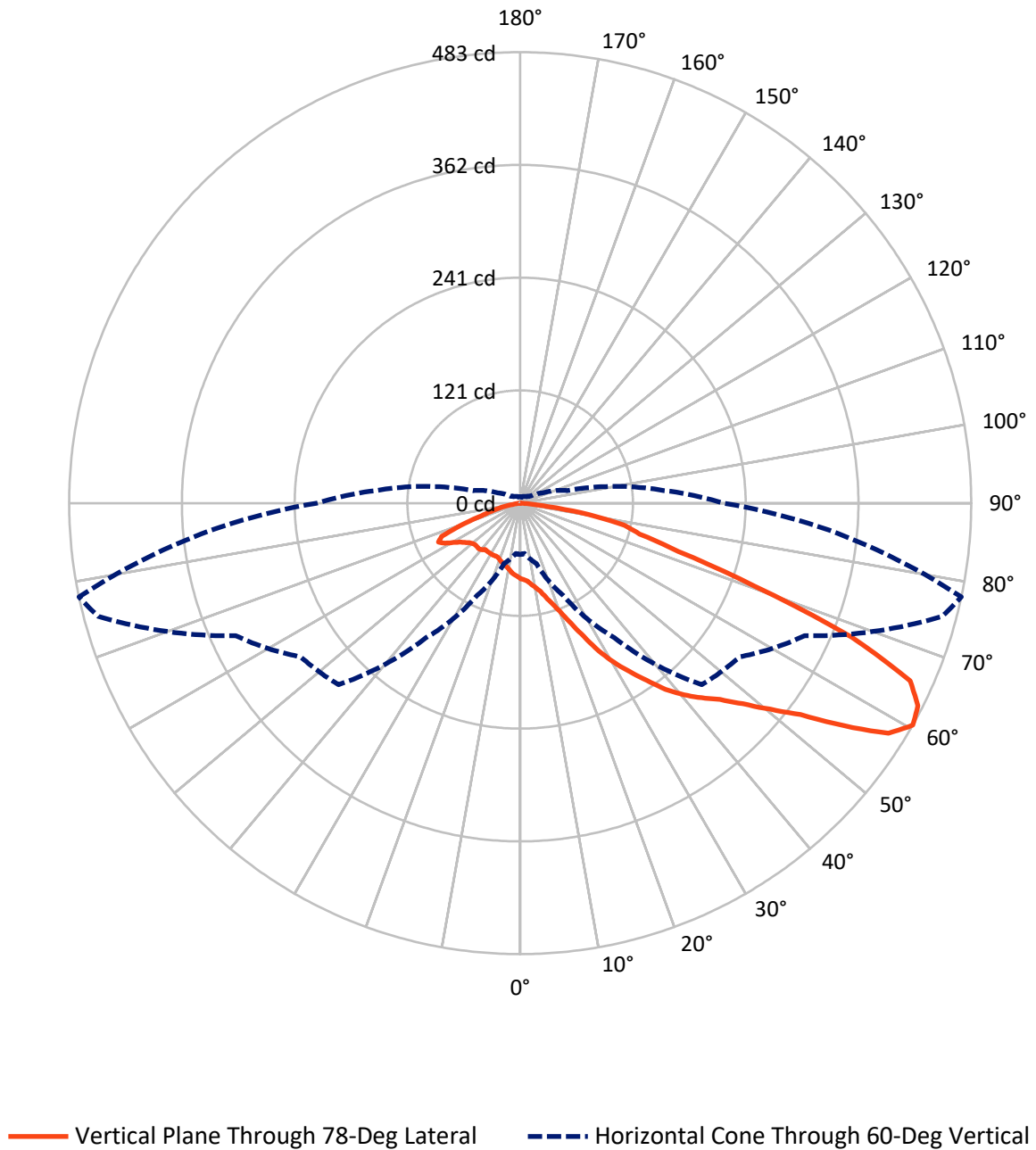
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Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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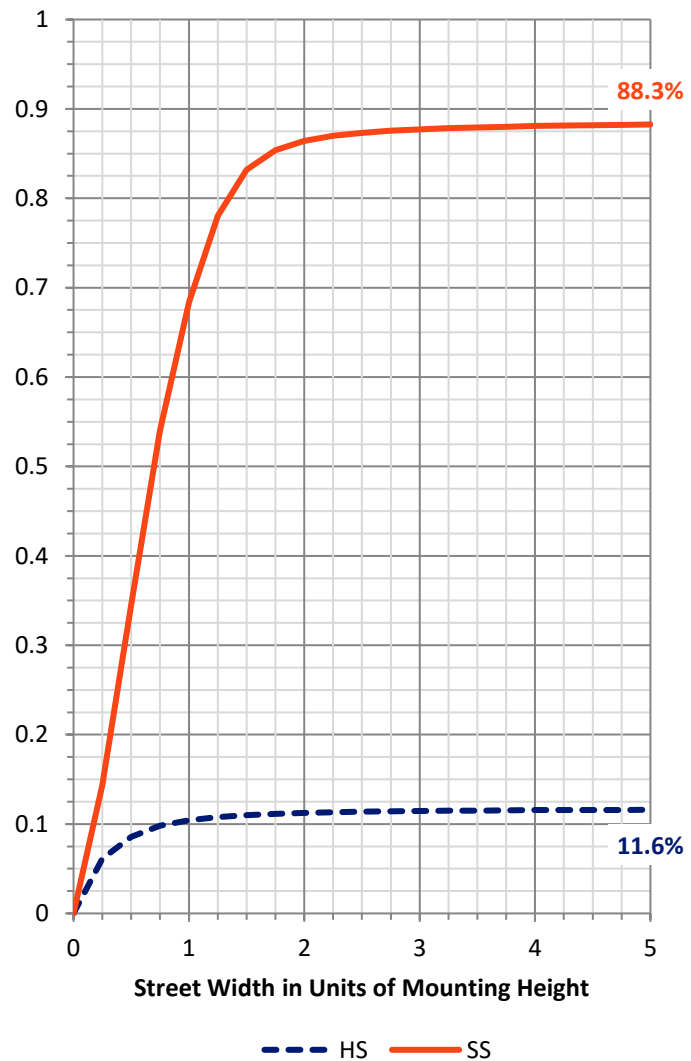
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	76.4	0.0	76.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	576.6	0.0	576.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	653.0	0.0	653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	29.1	4.5
20°-30°	60.6	9.3
30°-40°	109.2	16.7
40°-50°	145.4	22.3
50°-60°	140.6	21.5
60°-70°	110.8	17.0
70°-80°	44.6	6.8
80°-90°	4.9	0.8
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°	653.0	100.0
0°-180°	653.0	100.0

Coefficient of Utilization



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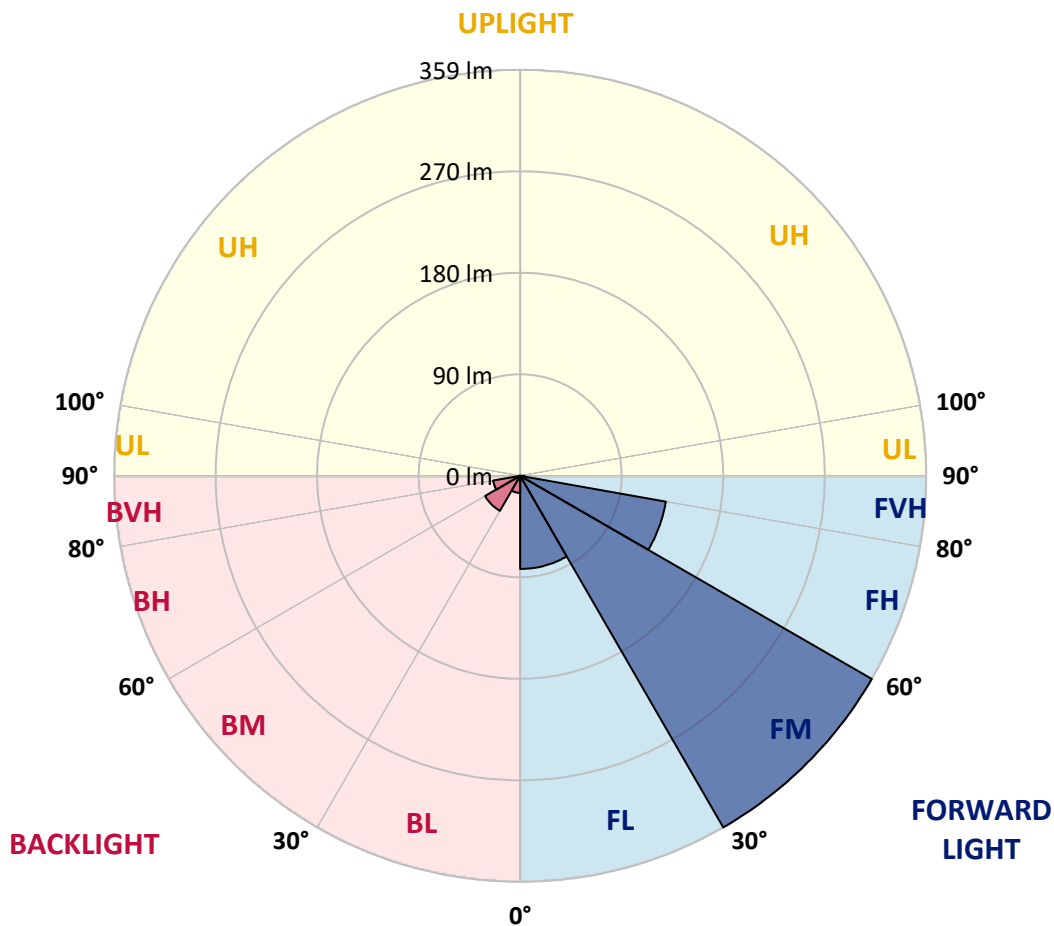
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.4	12.6			
FM	(30°-60°)	359.4	55.0			
FH	(60°-80°)	131.0	20.1			G0/660
FVH	(80°-90°)	3.8	0.6			G0/10
BL	(0°-30°)	15.1	2.3	B0/110		
BM	(30°-60°)	35.8	5.5	B0/220		
BH	(60°-80°)	24.3	3.7	B0/110		G0/110
BVH	(80°-90°)	1.1	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
2.5°	89.0	90.0	90.0	89.0	88.0	87.0	85.0	84.0	82.0	82.0	81.0
5°	108.0	109.0	108.0	106.0	102.0	98.0	93.0	89.0	85.0	84.0	82.0
7.5°	130.0	132.0	130.0	127.0	122.0	114.0	105.0	97.0	89.0	88.0	84.0
10°	156.0	158.0	155.0	149.0	142.0	132.0	122.0	107.0	95.0	92.0	86.0
12.5°	186.9	188.9	183.9	176.0	165.0	152.0	139.0	121.0	102.0	97.0	89.0
15°	211.9	213.9	210.9	202.9	192.9	177.0	159.0	138.0	113.0	105.0	93.0
17.5°	225.9	227.9	226.9	222.9	215.9	201.9	181.0	155.0	125.0	114.0	97.0
20°	236.9	237.9	237.9	232.9	229.9	222.9	203.9	174.0	139.0	125.0	101.0
22.5°	250.9	252.9	249.9	244.9	238.9	237.9	223.9	194.9	156.0	140.0	107.0
25°	270.9	271.9	265.9	257.9	250.9	246.9	240.9	215.9	175.0	158.0	117.0
27.5°	300.9	300.9	293.9	278.9	264.9	256.9	255.9	238.9	195.9	179.0	129.0
30°	342.9	342.9	331.9	308.9	285.9	270.9	264.9	258.9	216.9	197.9	140.0
32.5°	390.9	390.9	376.9	347.9	312.9	287.9	278.9	272.9	235.9	214.9	150.0
35°	424.9	424.9	415.9	385.9	344.9	311.9	295.9	289.9	255.9	232.9	160.0
37.5°	425.9	426.9	430.9	409.9	376.9	345.9	317.9	309.9	273.9	252.9	173.0
40°	405.9	403.9	414.9	407.9	393.9	377.9	346.9	332.9	291.9	269.9	183.9
42.5°	383.9	380.9	389.9	388.9	384.9	389.9	379.9	353.9	311.9	284.9	188.9
45°	366.9	362.9	362.9	363.9	364.9	378.9	397.9	380.9	329.9	299.9	195.9
47.5°	346.9	340.9	338.9	335.9	339.9	348.9	395.9	410.9	352.9	320.9	205.9
50°	315.9	308.9	311.9	310.9	320.9	318.9	369.9	422.9	381.9	346.9	220.9
52.5°	241.9	233.9	261.9	285.9	306.9	298.9	328.9	416.9	420.9	375.9	238.9
55°	158.0	154.0	180.0	228.9	288.9	290.9	294.9	394.9	455.9	420.9	260.9
57.5°	91.0	88.0	114.0	164.0	239.9	292.9	280.9	360.9	470.9	464.9	292.9
60°	55.0	54.0	67.0	109.0	176.0	274.9	286.9	335.9	467.9	482.9	331.9
62.5°	39.0	39.0	44.0	71.0	117.0	211.9	304.9	333.9	464.9	477.9	356.9
65°	30.0	29.0	33.0	47.0	78.0	140.0	286.9	358.9	439.9	458.9	363.9
67.5°	23.0	23.0	26.0	33.0	56.0	85.0	199.9	411.9	388.9	382.9	315.9
70°	19.0	19.0	21.0	26.0	41.0	58.0	119.0	372.9	291.9	265.9	245.9
72.5°	15.0	15.0	17.0	21.0	32.0	40.0	63.0	250.9	215.9	177.0	189.9
75°	11.0	11.0	13.0	17.0	24.0	27.0	36.0	141.0	172.0	132.0	157.0
77.5°	8.0	8.0	10.0	12.0	16.0	18.0	20.0	69.0	168.0	114.0	113.0
80°	4.0	5.0	6.0	9.0	9.0	10.0	11.0	23.0	114.0	75.0	57.0
82.5°	3.0	3.0	4.0	5.0	5.0	5.0	6.0	6.0	42.0	30.0	22.0
85°	1.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	9.0	7.0	9.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	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°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
2.5°	81.0	80.0	78.0	76.0	75.0	74.0	72.0	71.0	70.0	70.0	71.0
5°	81.0	79.0	76.0	72.0	68.0	64.0	59.0	56.0	54.0	53.0	54.0
7.5°	82.0	79.0	73.0	65.0	58.0	51.0	43.0	38.0	35.0	34.0	34.0
10°	82.0	78.0	69.0	58.0	48.0	37.0	31.0	28.0	27.0	27.0	27.0
12.5°	84.0	78.0	66.0	51.0	37.0	29.0	26.0	24.0	24.0	24.0	24.0
15°	86.0	79.0	63.0	45.0	31.0	25.0	23.0	22.0	22.0	22.0	22.0
17.5°	88.0	79.0	61.0	38.0	27.0	23.0	22.0	21.0	20.0	20.0	20.0
20°	90.0	80.0	58.0	32.0	24.0	22.0	20.0	19.0	19.0	19.0	19.0
22.5°	93.0	81.0	55.0	28.0	22.0	20.0	19.0	18.0	18.0	17.0	18.0
25°	98.0	84.0	53.0	25.0	21.0	19.0	18.0	17.0	17.0	16.0	16.0
27.5°	107.0	90.0	51.0	24.0	20.0	18.0	17.0	16.0	16.0	15.0	15.0
30°	114.0	95.0	49.0	24.0	19.0	17.0	16.0	15.0	15.0	14.0	14.0
32.5°	120.0	99.0	47.0	25.0	19.0	17.0	15.0	15.0	14.0	14.0	14.0
35°	126.0	103.0	45.0	26.0	20.0	16.0	15.0	14.0	13.0	13.0	13.0
37.5°	134.0	107.0	43.0	27.0	21.0	16.0	14.0	13.0	12.0	12.0	12.0
40°	145.0	115.0	43.0	27.0	22.0	16.0	13.0	12.0	12.0	12.0	12.0
42.5°	146.0	117.0	44.0	27.0	22.0	16.0	13.0	12.0	11.0	11.0	11.0
45°	145.0	116.0	44.0	29.0	21.0	16.0	12.0	11.0	11.0	11.0	11.0
47.5°	151.0	118.0	43.0	30.0	19.0	15.0	11.0	11.0	11.0	10.0	10.0
50°	159.0	122.0	43.0	31.0	18.0	13.0	11.0	10.0	10.0	10.0	10.0
52.5°	169.0	127.0	44.0	32.0	17.0	12.0	10.0	10.0	10.0	9.0	9.0
55°	182.0	134.0	46.0	31.0	16.0	11.0	10.0	9.0	9.0	9.0	9.0
57.5°	198.9	143.0	48.0	29.0	15.0	10.0	9.0	9.0	8.0	8.0	7.0
60°	217.9	155.0	52.0	26.0	13.0	10.0	9.0	8.0	7.0	7.0	7.0
62.5°	238.9	171.0	57.0	19.0	11.0	9.0	8.0	7.0	6.0	6.0	6.0
65°	249.9	187.9	58.0	13.0	9.0	8.0	8.0	7.0	6.0	5.0	5.0
67.5°	229.9	182.9	52.0	10.0	8.0	7.0	7.0	6.0	5.0	5.0	5.0
70°	190.9	148.0	33.0	8.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0
72.5°	141.0	108.0	16.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0
75°	119.0	82.0	9.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0
77.5°	103.0	59.0	6.0	5.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0
80°	58.0	23.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0
82.5°	22.0	7.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
85°	8.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	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)