

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-T2U-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 (G2-2406-129-2)
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-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 606 lumens
Efficiency: N/A
Efficacy: 20.5 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

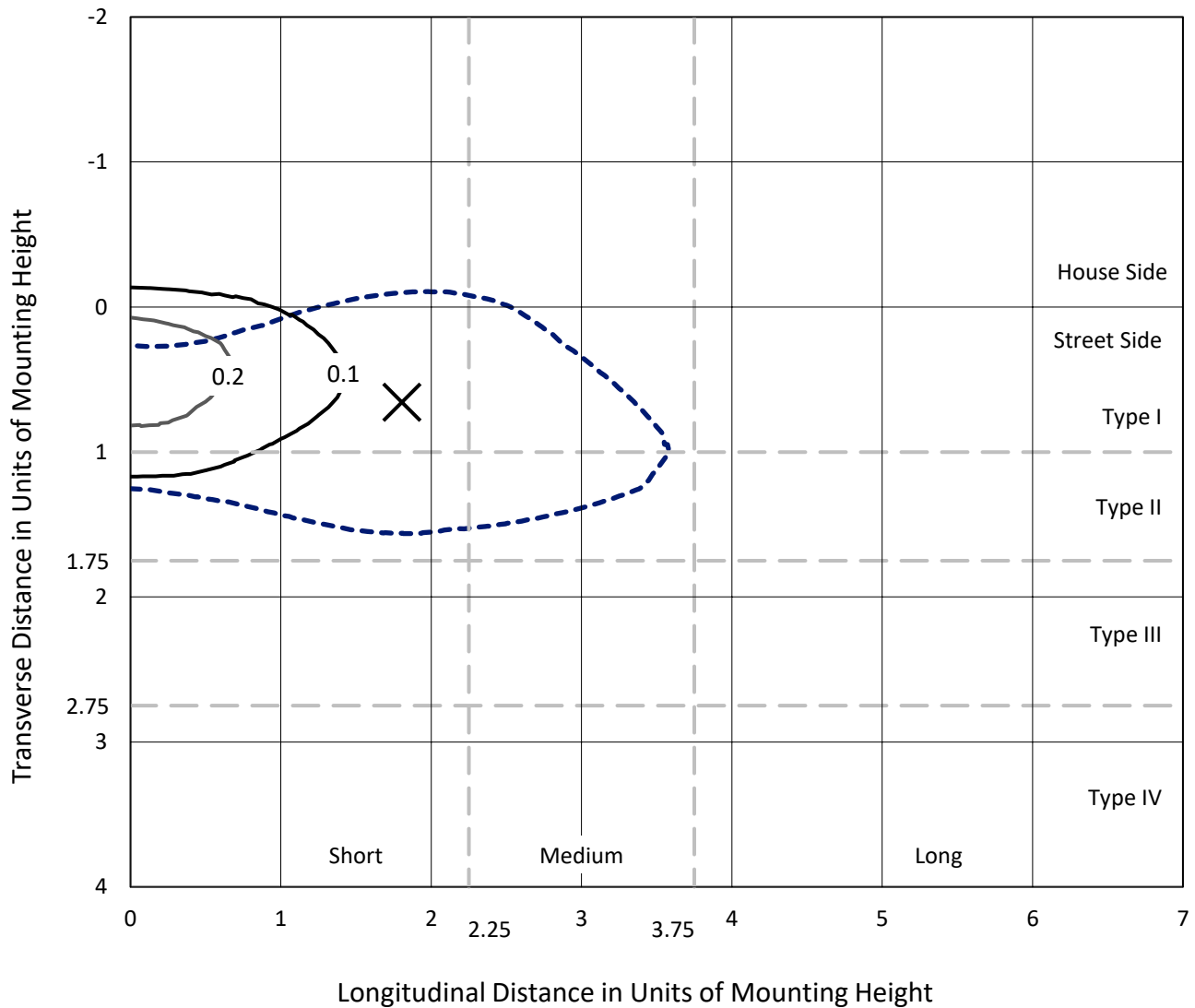
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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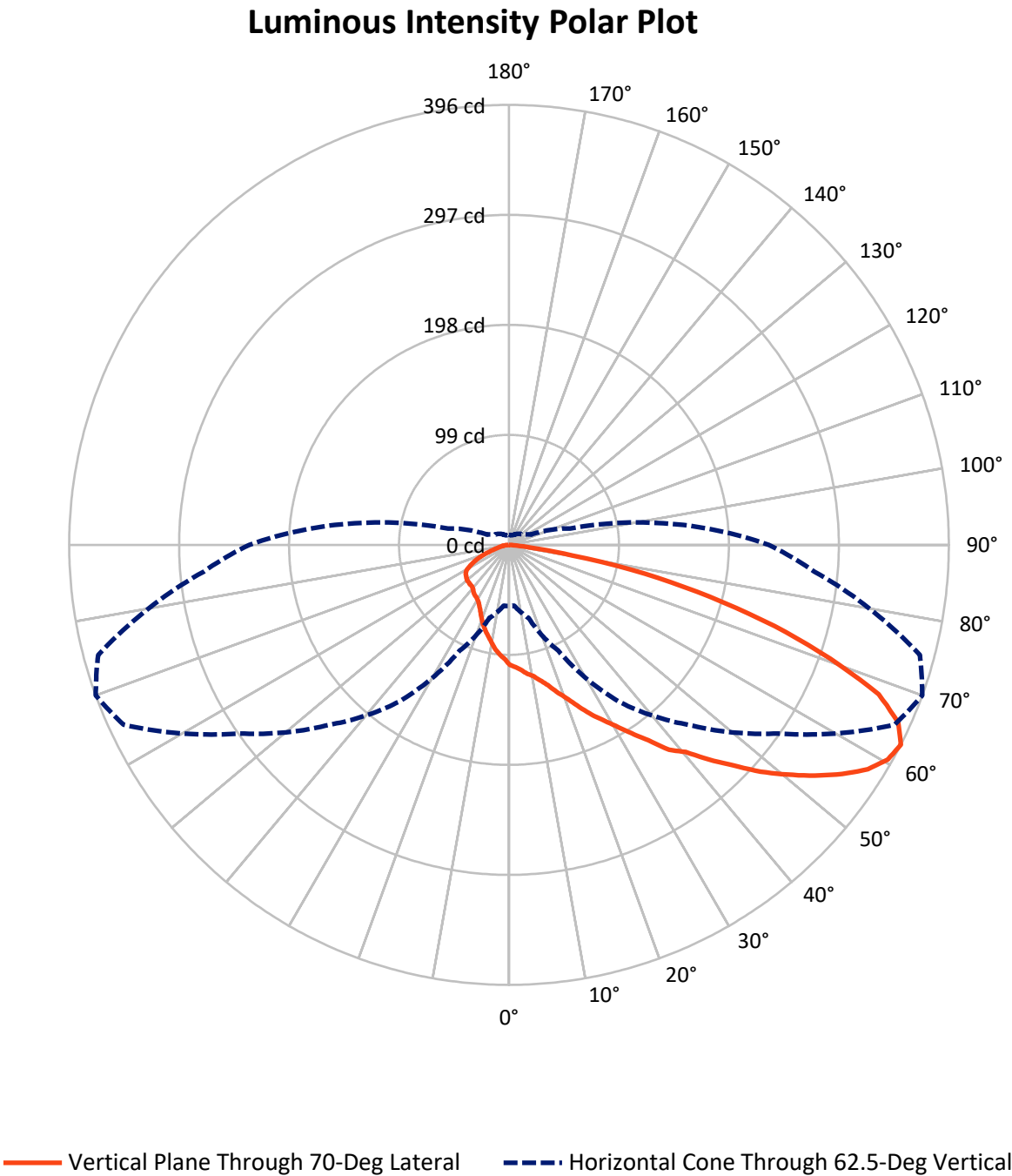
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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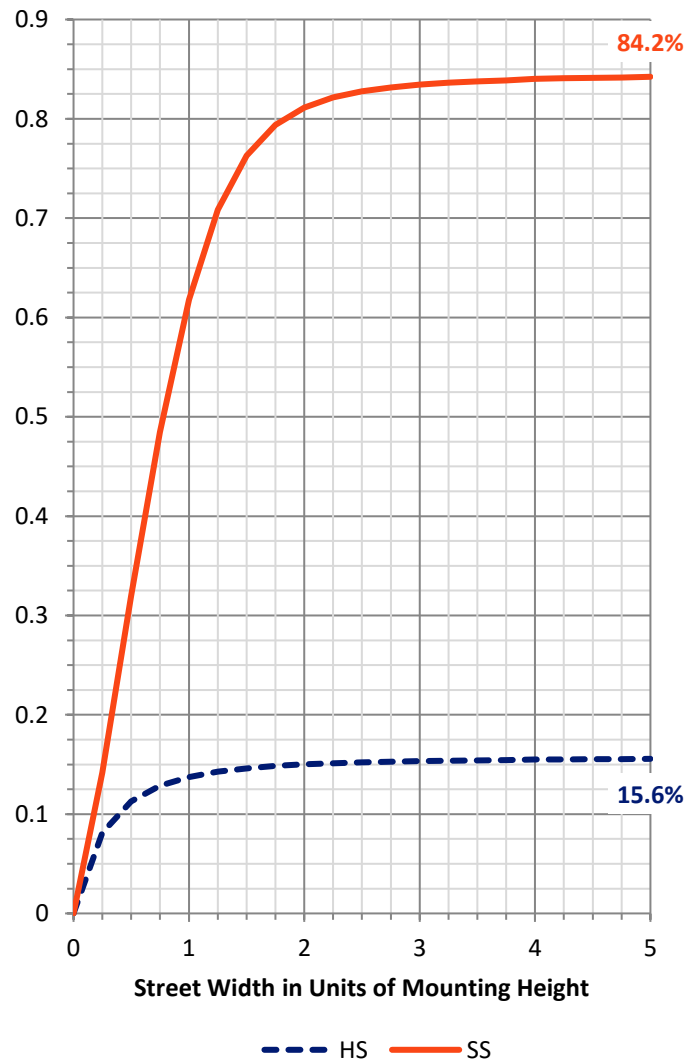
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.3	0.0	95.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	510.7	0.0	510.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	606.0	0.0	606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	1.6
10°-20°	31.5	5.2
20°-30°	55.9	9.2
30°-40°	85.7	14.1
40°-50°	119.8	19.8
50°-60°	133.4	22.0
60°-70°	113.1	18.7
70°-80°	50.7	8.4
80°-90°	5.8	1.0
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°	606.0	100.0
0°-180°	606.0	100.0

Coefficient of Utilization



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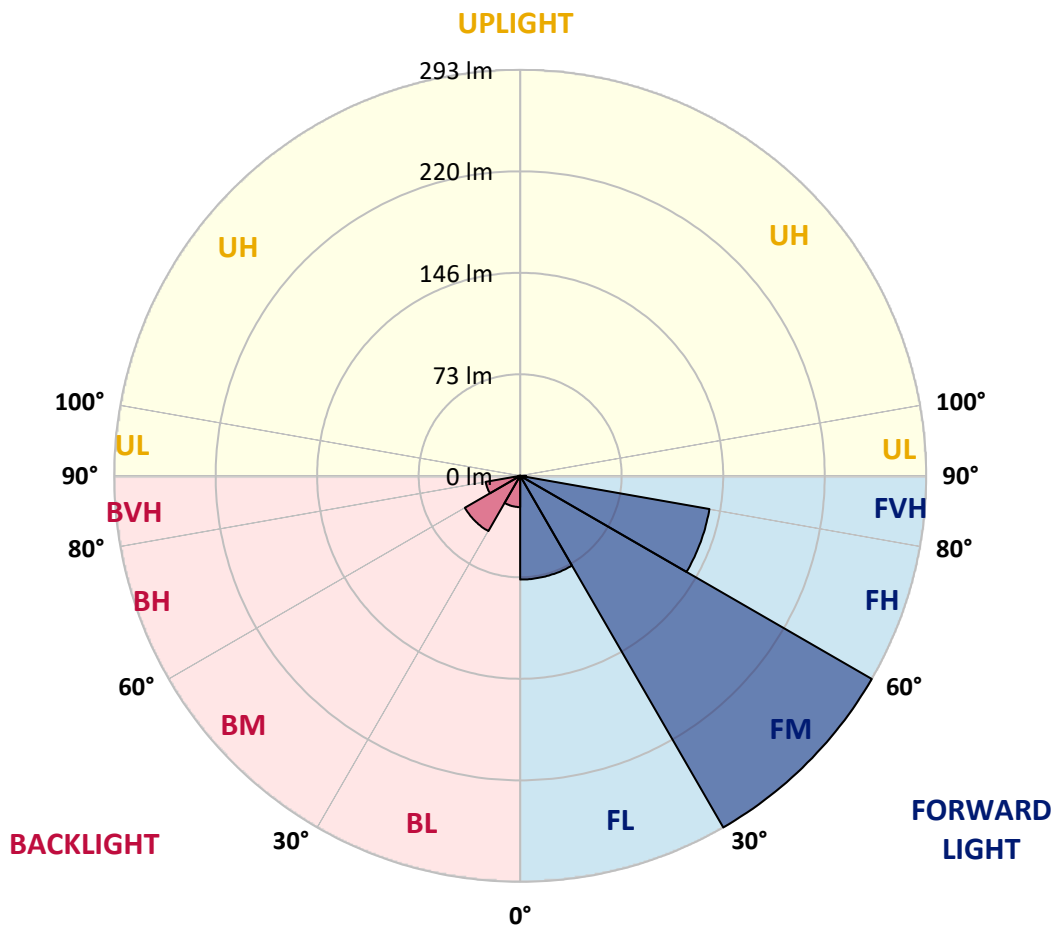
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.8	12.3			
FM	(30°-60°)	292.9	48.3			
FH	(60°-80°)	138.6	22.9			G0/660
FVH	(80°-90°)	4.3	0.7			G0/10
BL	(0°-30°)	22.6	3.7	B0/110		
BM	(30°-60°)	46.1	7.6	B0/220		
BH	(60°-80°)	25.2	4.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	70°	75°	85°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	117.1	116.1	116.1	115.1	114.1	114.1	112.1	111.1	110.1	109.1	108.1
5°	126.1	126.1	124.1	123.1	121.1	120.1	117.1	115.1	113.1	112.1	109.1
7.5°	143.1	141.1	139.1	136.1	131.1	127.1	123.1	119.1	117.1	114.1	110.1
10°	162.1	161.1	158.1	154.1	145.1	139.1	130.1	123.1	120.1	117.1	111.1
12.5°	180.1	180.1	177.1	171.1	162.1	153.1	141.1	129.1	125.1	120.1	113.1
15°	201.1	200.1	197.1	189.1	178.1	167.1	153.1	137.1	131.1	125.1	116.1
17.5°	215.2	215.2	212.2	205.2	193.1	181.1	165.1	147.1	139.1	129.1	119.1
20°	222.2	222.2	220.2	215.2	206.2	195.1	177.1	157.1	147.1	135.1	122.1
22.5°	225.2	225.2	225.2	224.2	216.2	207.2	189.1	168.1	157.1	142.1	125.1
25°	221.2	221.2	223.2	225.2	224.2	218.2	202.1	179.1	168.1	151.1	129.1
27.5°	219.2	219.2	221.2	225.2	226.2	226.2	215.2	191.1	178.1	160.1	134.1
30°	227.2	227.2	226.2	227.2	228.2	232.2	224.2	202.1	189.1	171.1	140.1
32.5°	244.2	242.2	240.2	239.2	234.2	240.2	236.2	214.2	202.1	183.1	147.1
35°	256.2	255.2	255.2	255.2	247.2	247.2	247.2	227.2	216.2	197.1	156.1
37.5°	265.2	265.2	265.2	267.2	264.2	261.2	260.2	244.2	234.2	210.2	166.1
40°	270.2	271.2	276.2	278.2	274.2	275.2	273.2	259.2	245.2	223.2	172.1
42.5°	279.2	282.2	290.2	288.2	281.2	283.2	284.2	273.2	264.2	240.2	184.1
45°	265.2	267.2	280.2	287.2	284.2	288.2	297.2	290.2	283.2	261.2	197.1
47.5°	252.2	251.2	261.2	274.2	280.2	292.2	309.2	310.2	305.2	282.2	211.2
50°	218.2	220.2	242.2	259.2	272.2	293.2	318.2	329.2	325.2	303.2	224.2
52.5°	181.1	183.1	206.2	241.2	262.2	290.2	324.2	347.3	345.3	321.2	237.2
55°	143.1	147.1	171.1	210.2	247.2	280.2	329.2	363.3	364.3	341.2	252.2
57.5°	108.1	112.1	135.1	176.1	227.2	265.2	328.2	376.3	381.3	358.3	264.2
60°	76.1	79.1	95.1	140.1	202.1	248.2	317.2	384.3	392.3	374.3	273.2
62.5°	55.0	55.0	68.0	105.1	172.1	229.2	296.2	383.3	396.3	383.3	276.2
65°	38.0	38.0	45.0	75.1	141.1	203.1	267.2	363.3	385.3	381.3	275.2
67.5°	27.0	28.0	32.0	51.0	110.1	167.1	232.2	329.2	359.3	358.3	254.2
70°	21.0	21.0	24.0	37.0	82.1	128.1	185.1	273.2	307.2	309.2	212.2
72.5°	17.0	17.0	19.0	27.0	61.0	92.1	129.1	211.2	250.2	254.2	168.1
75°	12.0	13.0	14.0	20.0	44.0	58.0	81.1	152.1	187.1	197.1	128.1
77.5°	8.0	9.0	10.0	14.0	25.0	34.0	45.0	94.1	125.1	141.1	89.1
80°	4.0	5.0	6.0	9.0	13.0	17.0	23.0	38.0	58.0	84.1	55.0
82.5°	3.0	3.0	4.0	5.0	7.0	8.0	10.0	13.0	19.0	39.0	31.0
85°	1.0	2.0	2.0	2.0	3.0	3.0	4.0	3.0	4.0	11.0	14.0
87.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	107.1	106.1	104.1	102.1	101.1	99.1	97.1	96.1	95.1	95.1	94.1
5°	107.1	105.1	102.1	97.1	93.1	89.1	85.1	83.1	81.1	80.1	79.1
7.5°	107.1	104.1	99.1	92.1	84.1	78.1	72.1	69.1	66.0	65.0	64.0
10°	108.1	104.1	96.1	85.1	75.1	67.0	60.0	56.0	53.0	52.0	51.0
12.5°	109.1	104.1	92.1	79.1	67.0	57.0	49.0	45.0	43.0	42.0	41.0
15°	111.1	104.1	90.1	73.1	59.0	48.0	42.0	38.0	36.0	35.0	35.0
17.5°	113.1	105.1	87.1	67.0	51.0	41.0	36.0	33.0	31.0	31.0	31.0
20°	114.1	105.1	84.1	61.0	44.0	36.0	32.0	29.0	28.0	27.0	27.0
22.5°	116.1	106.1	80.1	55.0	39.0	32.0	28.0	26.0	25.0	25.0	25.0
25°	119.1	107.1	77.1	49.0	35.0	29.0	26.0	24.0	23.0	23.0	23.0
27.5°	123.1	109.1	74.1	45.0	31.0	26.0	24.0	23.0	22.0	22.0	22.0
30°	127.1	112.1	73.1	41.0	29.0	24.0	22.0	21.0	21.0	21.0	21.0
32.5°	132.1	115.1	72.1	39.0	27.0	23.0	21.0	20.0	20.0	20.0	20.0
35°	139.1	120.1	71.1	38.0	26.0	22.0	20.0	19.0	19.0	19.0	19.0
37.5°	147.1	125.1	70.1	36.0	26.0	21.0	19.0	19.0	19.0	19.0	18.0
40°	150.1	126.1	67.0	35.0	25.0	21.0	18.0	18.0	18.0	18.0	18.0
42.5°	158.1	132.1	66.0	34.0	25.0	20.0	18.0	17.0	17.0	17.0	17.0
45°	169.1	140.1	66.0	34.0	25.0	20.0	17.0	16.0	16.0	16.0	16.0
47.5°	181.1	149.1	65.0	34.0	24.0	19.0	17.0	16.0	15.0	15.0	15.0
50°	191.1	155.1	65.0	34.0	24.0	19.0	16.0	15.0	15.0	14.0	14.0
52.5°	201.1	161.1	64.0	33.0	23.0	18.0	15.0	14.0	14.0	13.0	13.0
55°	212.2	167.1	63.0	32.0	22.0	17.0	14.0	13.0	13.0	12.0	12.0
57.5°	222.2	173.1	62.0	31.0	20.0	16.0	14.0	12.0	11.0	11.0	11.0
60°	230.2	176.1	60.0	28.0	19.0	15.0	13.0	11.0	10.0	10.0	10.0
62.5°	234.2	176.1	57.0	22.0	16.0	14.0	12.0	10.0	9.0	9.0	9.0
65°	229.2	170.1	52.0	17.0	14.0	12.0	11.0	9.0	9.0	8.0	8.0
67.5°	210.2	151.1	44.0	14.0	13.0	11.0	10.0	9.0	8.0	7.0	7.0
70°	174.1	126.1	33.0	11.0	11.0	10.0	9.0	8.0	7.0	6.0	6.0
72.5°	140.1	100.1	23.0	9.0	9.0	8.0	8.0	7.0	6.0	5.0	5.0
75°	103.1	72.1	15.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0	5.0
77.5°	70.1	39.0	11.0	7.0	6.0	6.0	5.0	4.0	4.0	4.0	4.0
80°	41.0	19.0	8.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	3.0
82.5°	23.0	9.0	6.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0
85°	10.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	1.0	1.0	1.0	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)