

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**

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 (G2-2406-129-4)
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
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 951 lumens
Efficiency: N/A
Efficacy: 32.2 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

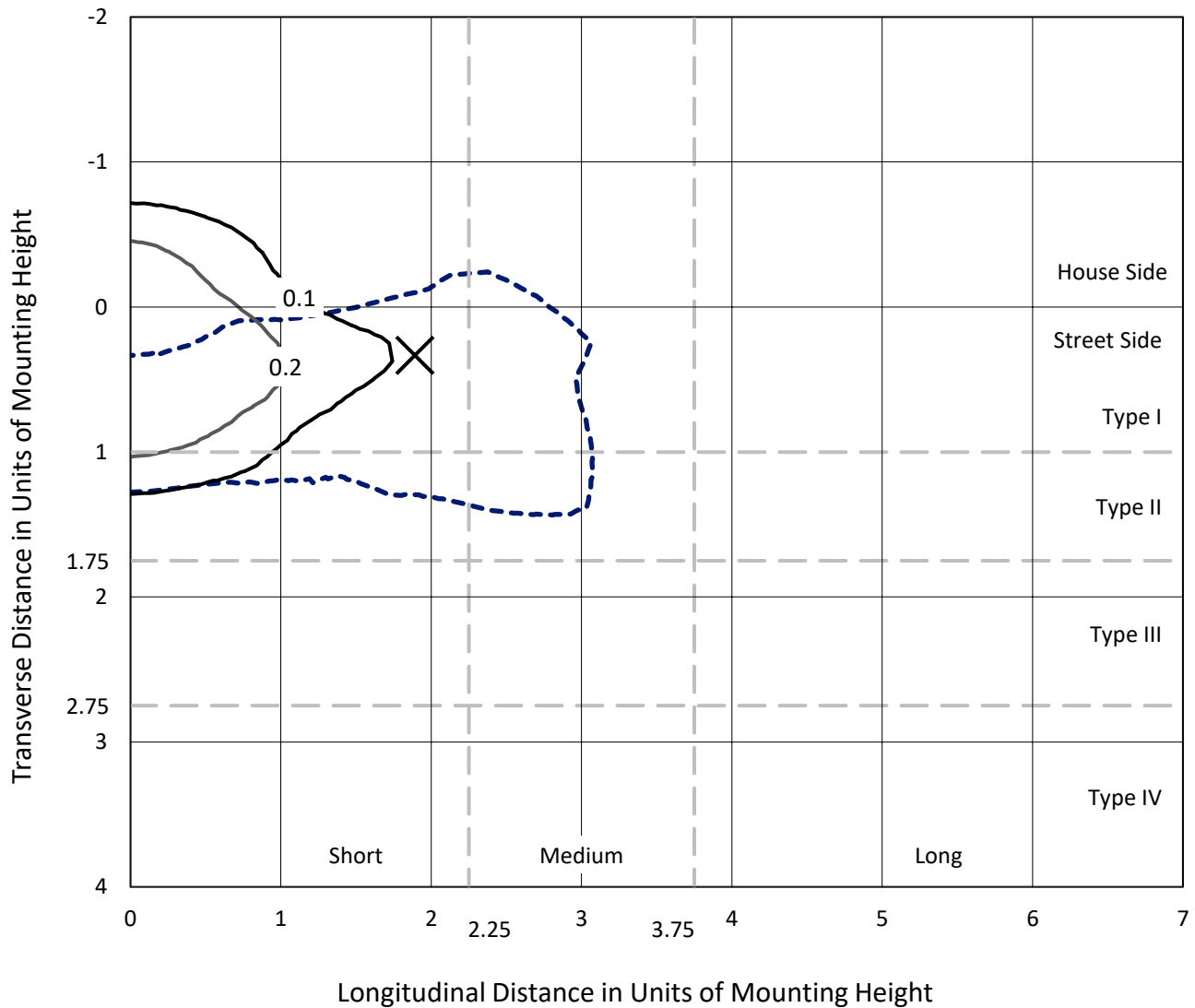
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

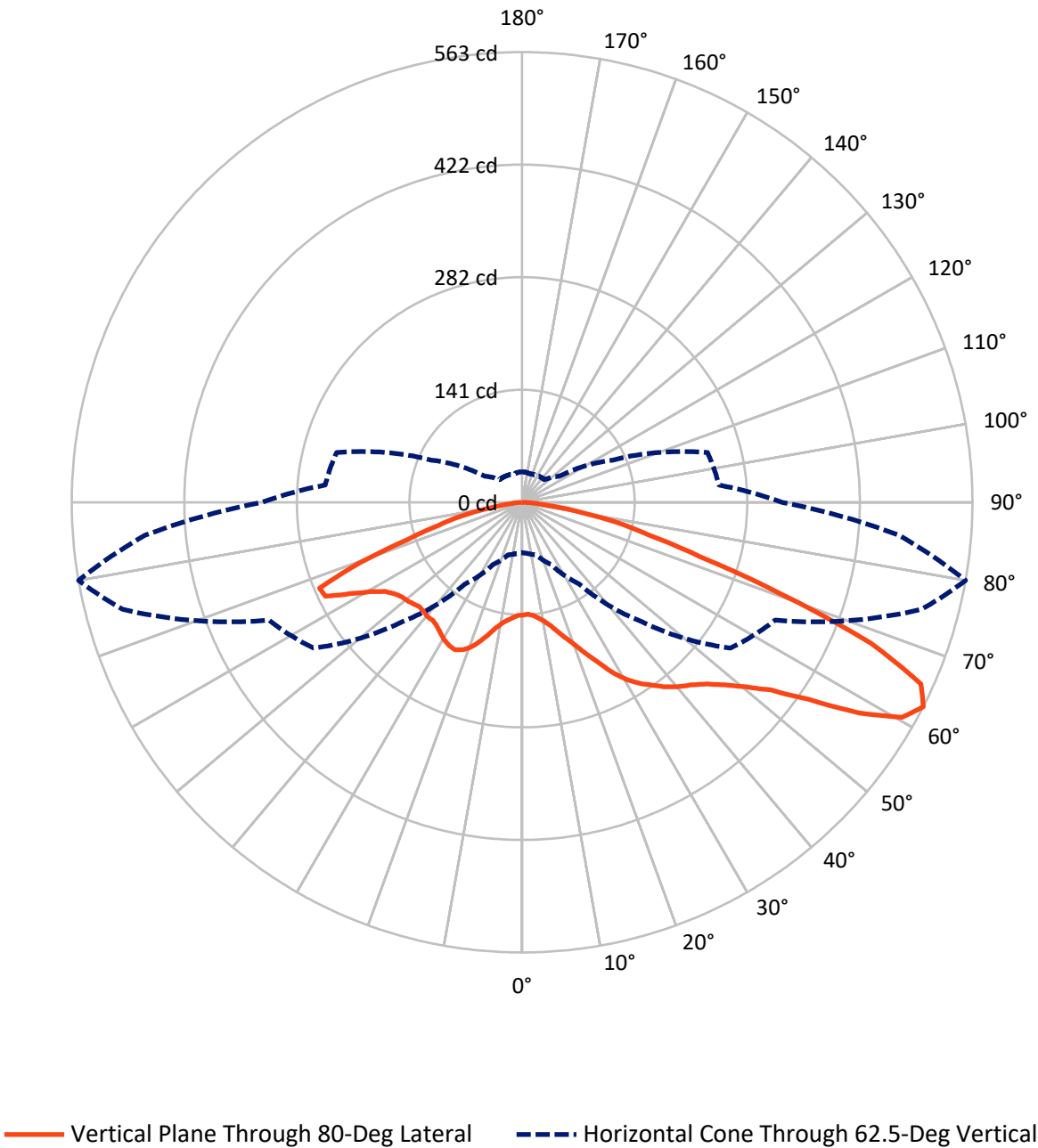
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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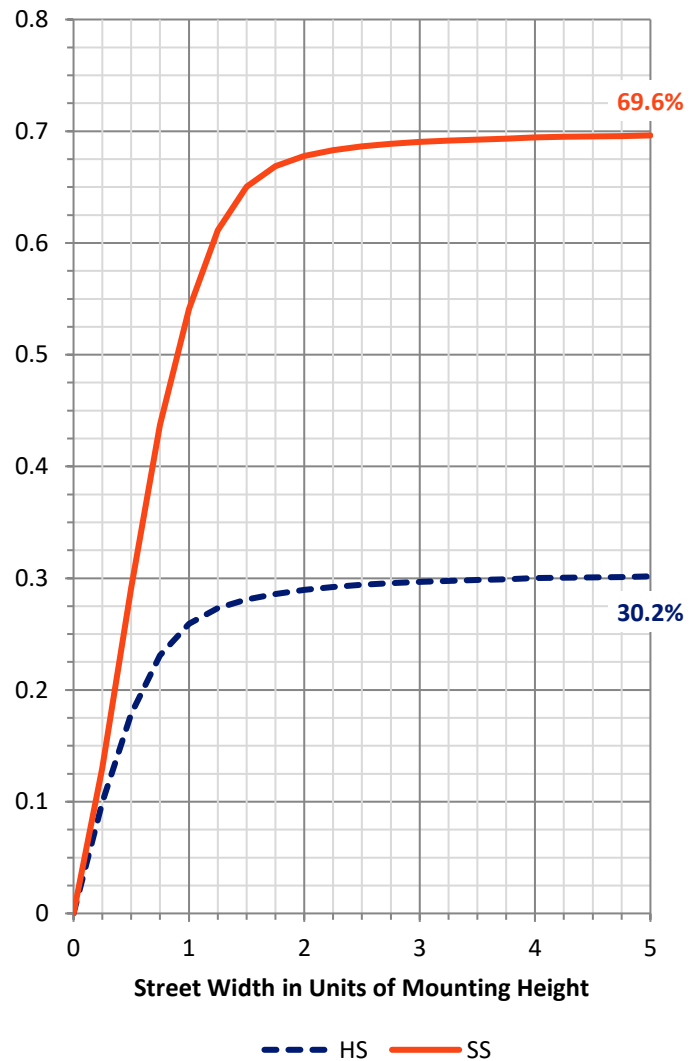
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.7	0.0	288.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	662.3	0.0	662.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	951.0	0.0	951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	1.5
10°-20°	55.3	5.8
20°-30°	107.3	11.3
30°-40°	160.4	16.9
40°-50°	192.2	20.2
50°-60°	182.9	19.2
60°-70°	157.7	16.6
70°-80°	71.0	7.5
80°-90°	9.6	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°	951.0	100.0
0°-180°	951.0	100.0

Coefficient of Utilization



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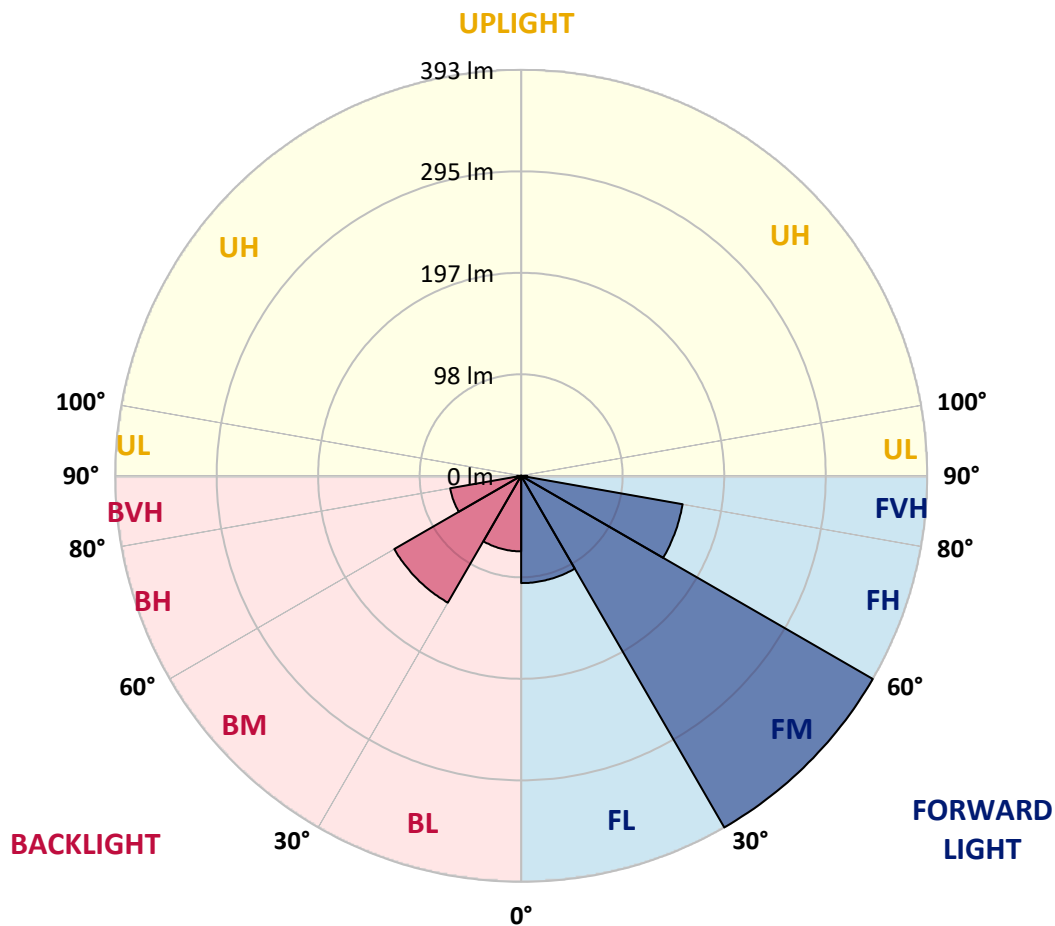
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.0	10.9			
FM	(30°-60°)	393.5	41.4			
FH	(60°-80°)	158.9	16.7			G0/660
FVH	(80°-90°)	5.9	0.6			G0/10
BL	(0°-30°)	73.2	7.7	B0/110		
BM	(30°-60°)	142.0	14.9	B0/220		
BH	(60°-80°)	69.8	7.3	B0/110		G0/110
BVH	(80°-90°)	3.7	0.4			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°	80°	85°
0°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
2.5°	139.0	140.1	141.1	140.1	141.1	140.1	140.1	140.1	140.1	140.1	141.1
5°	147.1	148.1	148.1	146.1	146.1	144.1	143.1	142.1	142.1	142.1	143.1
7.5°	161.1	163.1	163.1	159.1	156.1	152.1	149.1	147.1	145.1	146.1	146.1
10°	185.1	187.1	185.1	177.1	172.1	165.1	158.1	154.1	151.1	151.1	151.1
12.5°	217.1	218.1	215.1	204.1	195.1	184.1	172.1	164.1	159.1	158.1	158.1
15°	247.1	249.1	247.1	233.1	222.1	208.1	191.1	178.1	170.1	168.1	167.1
17.5°	267.1	270.1	270.1	259.1	249.1	235.1	212.1	194.1	181.1	179.1	178.1
20°	289.1	292.1	291.1	279.1	270.1	260.1	236.1	211.1	195.1	191.1	190.1
22.5°	314.1	315.1	312.1	298.1	288.1	278.1	258.1	232.1	211.1	206.1	204.1
25°	338.1	340.1	336.1	321.1	306.1	293.1	278.1	253.1	229.1	222.1	219.1
27.5°	361.1	362.1	362.1	345.1	327.1	310.1	296.1	276.1	248.1	241.1	235.1
30°	386.1	385.1	386.1	367.1	348.1	330.1	310.1	296.1	267.1	257.1	246.1
32.5°	418.1	418.1	415.1	386.1	364.1	348.1	329.1	311.1	282.1	270.1	255.1
35°	441.2	443.2	441.2	412.1	381.1	365.1	349.1	329.1	298.1	281.1	261.1
37.5°	436.2	439.2	442.2	428.2	403.1	387.1	369.1	350.1	313.1	293.1	268.1
40°	416.1	417.1	422.2	419.2	410.1	405.1	389.1	371.1	328.1	303.1	271.1
42.5°	395.1	394.1	397.1	401.1	396.1	408.1	410.1	389.1	344.1	312.1	270.1
45°	377.1	376.1	371.1	375.1	375.1	389.1	421.2	413.1	361.1	324.1	273.1
47.5°	358.1	355.1	348.1	347.1	350.1	357.1	415.1	438.2	383.1	341.1	282.1
50°	325.1	324.1	319.1	321.1	331.1	327.1	384.1	446.2	411.1	363.1	296.1
52.5°	262.1	263.1	267.1	296.1	317.1	308.1	341.1	436.2	450.2	390.1	316.1
55°	186.1	189.1	196.1	240.1	297.1	302.1	306.1	411.1	486.2	435.2	341.1
57.5°	127.0	130.0	138.0	176.1	251.1	302.1	291.1	375.1	502.2	497.2	379.1
60°	86.0	89.0	95.0	122.0	182.1	279.1	297.1	349.1	507.2	546.2	429.2
62.5°	63.0	64.0	68.0	86.0	125.0	211.1	318.1	349.1	517.2	563.2	473.2
65°	48.0	48.0	51.0	63.0	87.0	142.1	310.1	388.1	518.2	548.2	491.2
67.5°	39.0	39.0	41.0	47.0	64.0	93.0	234.1	452.2	476.2	471.2	426.2
70°	32.0	33.0	34.0	38.0	48.0	64.0	149.1	433.2	368.1	343.1	338.1
72.5°	25.0	26.0	27.0	31.0	37.0	46.0	86.0	318.1	269.1	233.1	262.1
75°	19.0	19.0	21.0	25.0	29.0	33.0	52.0	188.1	209.1	164.1	209.1
77.5°	14.0	14.0	15.0	19.0	20.0	23.0	32.0	96.0	195.1	121.0	147.1
80°	10.0	10.0	11.0	13.0	14.0	14.0	20.0	43.0	134.0	72.0	75.0
82.5°	5.0	6.0	6.0	7.0	8.0	9.0	11.0	19.0	57.0	35.0	34.0
85°	3.0	3.0	3.0	3.0	4.0	4.0	6.0	8.0	18.0	15.0	16.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	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°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
2.5°	141.1	141.1	142.1	143.1	144.1	145.1	146.1	146.1	147.1	147.1	148.1
5°	143.1	144.1	145.1	148.1	150.1	151.1	153.1	153.1	154.1	155.1	156.1
7.5°	146.1	147.1	150.1	153.1	156.1	158.1	160.1	161.1	162.1	162.1	163.1
10°	151.1	152.1	155.1	159.1	164.1	166.1	168.1	168.1	168.1	169.1	169.1
12.5°	158.1	159.1	163.1	169.1	174.1	176.1	176.1	175.1	175.1	175.1	176.1
15°	168.1	169.1	174.1	180.1	184.1	184.1	183.1	181.1	180.1	181.1	182.1
17.5°	179.1	180.1	185.1	189.1	190.1	187.1	185.1	183.1	182.1	183.1	184.1
20°	190.1	191.1	193.1	193.1	189.1	184.1	182.1	180.1	179.1	181.1	182.1
22.5°	202.1	201.1	197.1	190.1	183.1	176.1	174.1	173.1	173.1	174.1	175.1
25°	215.1	210.1	195.1	184.1	175.1	168.1	165.1	163.1	163.1	164.1	165.1
27.5°	225.1	213.1	189.1	176.1	169.1	161.1	157.1	153.1	152.1	152.1	153.1
30°	231.1	213.1	182.1	170.1	164.1	155.1	148.1	143.1	140.1	138.0	139.0
32.5°	232.1	210.1	175.1	165.1	160.1	151.1	141.1	133.0	129.0	127.0	127.0
35°	232.1	205.1	171.1	163.1	158.1	146.1	134.0	124.0	120.0	117.0	118.0
37.5°	233.1	202.1	168.1	163.1	156.1	142.1	128.0	119.0	113.0	108.0	108.0
40°	235.1	202.1	169.1	164.1	153.1	136.0	122.0	111.0	102.0	97.0	98.0
42.5°	228.1	198.1	169.1	164.1	148.1	130.0	114.0	101.0	93.0	89.0	89.0
45°	224.1	196.1	170.1	164.1	142.1	119.0	101.0	90.0	84.0	81.0	81.0
47.5°	229.1	199.1	173.1	163.1	130.0	104.0	87.0	78.0	74.0	70.0	70.0
50°	238.1	203.1	175.1	160.1	117.0	88.0	73.0	66.0	62.0	60.0	60.0
52.5°	249.1	206.1	177.1	154.1	102.0	75.0	63.0	56.0	52.0	51.0	51.0
55°	264.1	212.1	181.1	147.1	90.0	65.0	54.0	48.0	46.0	45.0	45.0
57.5°	282.1	219.1	190.1	141.1	80.0	55.0	47.0	43.0	43.0	43.0	43.0
60°	304.1	231.1	209.1	134.0	69.0	47.0	42.0	41.0	40.0	41.0	41.0
62.5°	325.1	247.1	240.1	125.0	57.0	40.0	39.0	38.0	37.0	38.0	38.0
65°	341.1	269.1	276.1	110.0	45.0	36.0	35.0	34.0	34.0	36.0	36.0
67.5°	328.1	274.1	276.1	87.0	37.0	32.0	31.0	31.0	32.0	33.0	34.0
70°	281.1	244.1	189.1	59.0	30.0	28.0	28.0	27.0	28.0	30.0	30.0
72.5°	220.1	192.1	108.0	38.0	24.0	23.0	24.0	24.0	25.0	27.0	28.0
75°	189.1	157.1	60.0	25.0	19.0	19.0	21.0	21.0	21.0	23.0	23.0
77.5°	162.1	125.0	37.0	17.0	15.0	15.0	16.0	17.0	16.0	16.0	16.0
80°	99.0	71.0	22.0	13.0	11.0	11.0	12.0	12.0	12.0	12.0	12.0
82.5°	44.0	32.0	12.0	9.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0
85°	19.0	15.0	7.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0
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)