

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-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 (G2-2406-129-6)
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-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

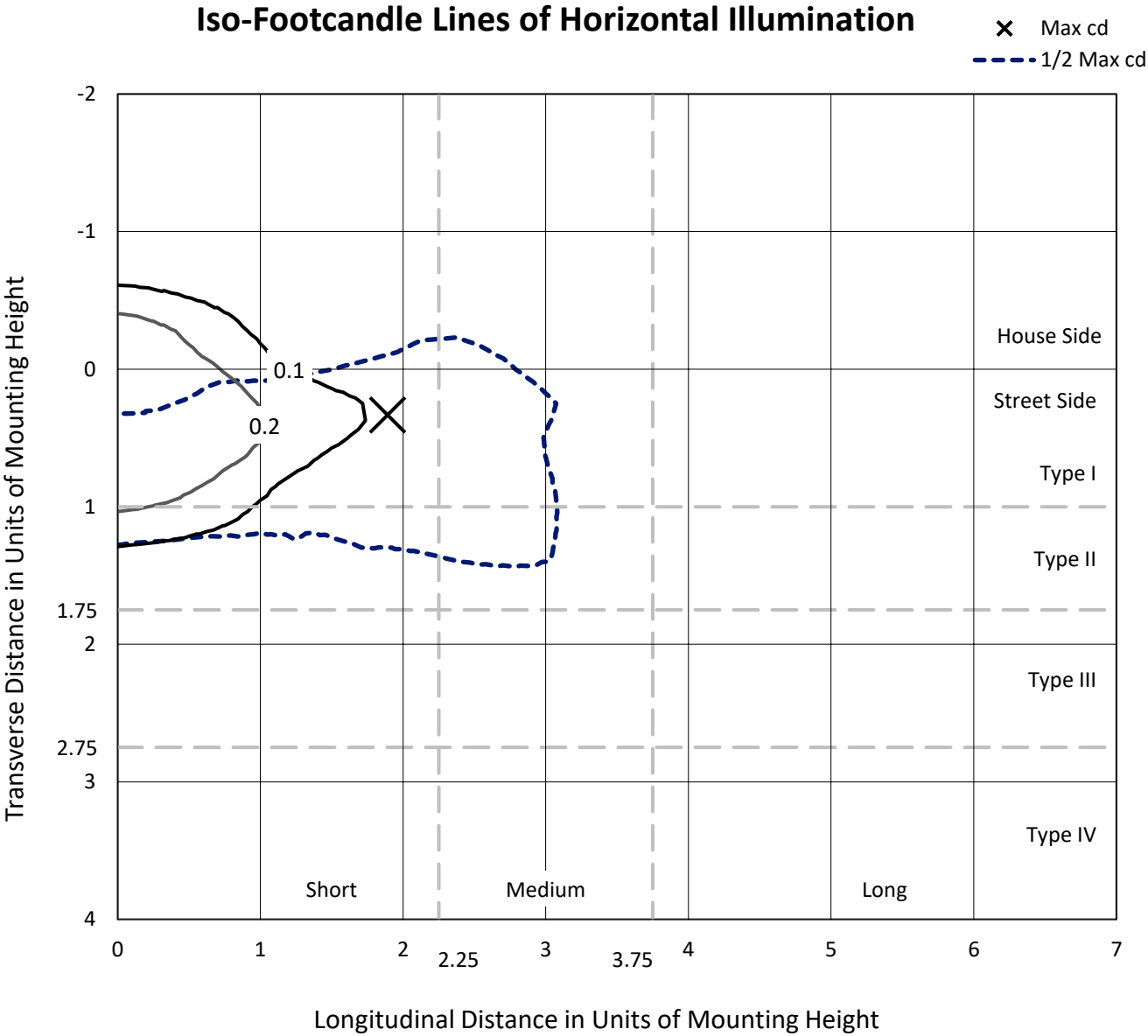
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905 lumens
Efficiency: N/A
Efficacy: 30.7 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

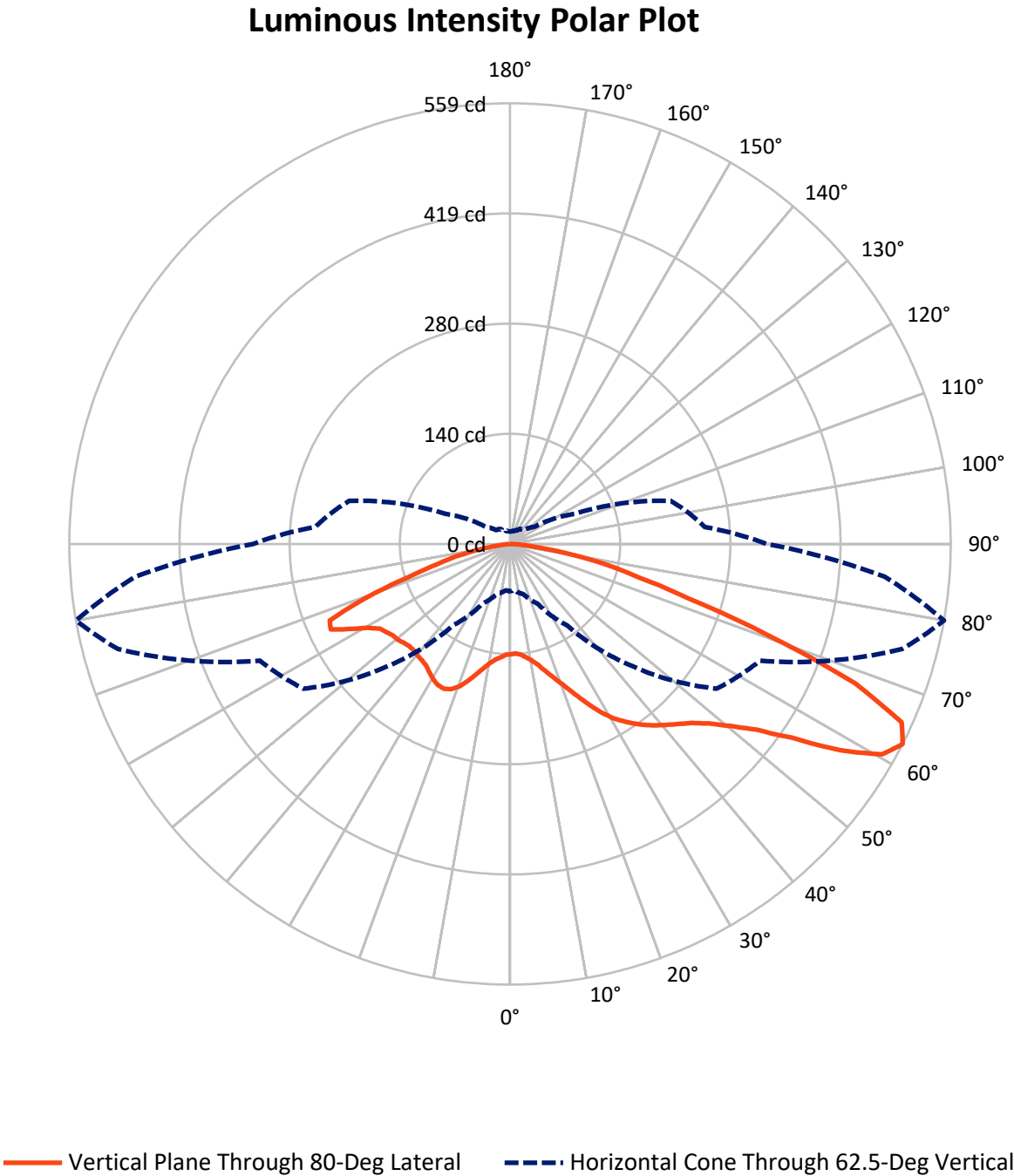


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Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
Type II - Short - N/A

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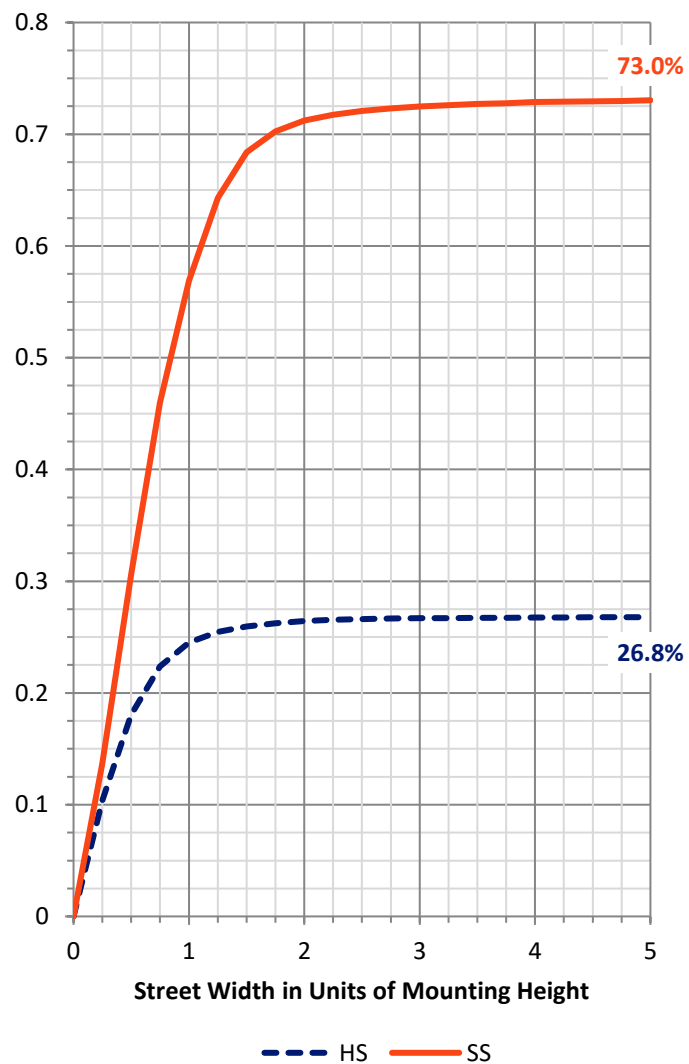
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.0	0.0	244.0
	% Fixture	27.0	0.0	27.0
Street Side	Lumens	661.0	0.0	661.0
	% Fixture	73.0	0.0	73.0
Total	Lumens	905.0	0.0	905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	1.6
10°-20°	55.0	6.1
20°-30°	104.9	11.6
30°-40°	154.4	17.1
40°-50°	184.2	20.4
50°-60°	174.1	19.2
60°-70°	147.3	16.3
70°-80°	63.0	7.0
80°-90°	7.4	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°	905.0	100.0
0°-180°	905.0	100.0

Coefficient of Utilization



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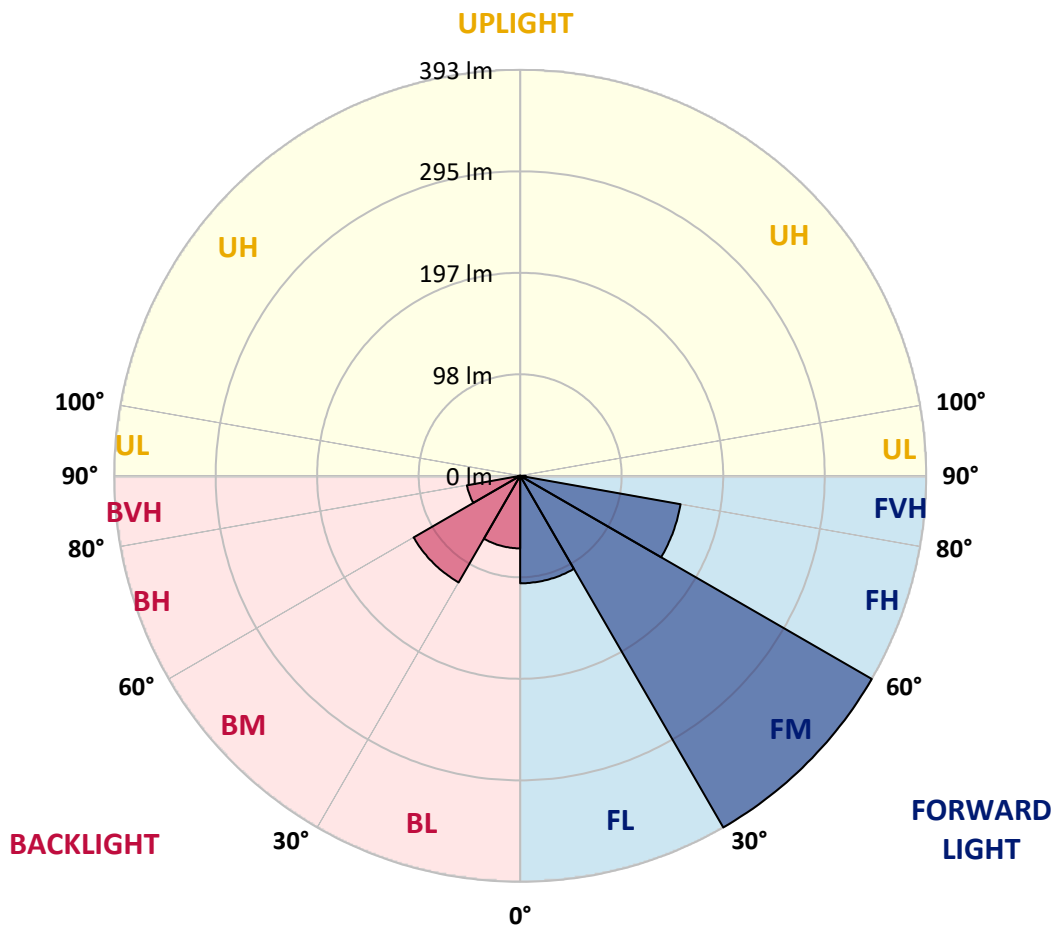
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.1	11.5			
FM	(30°-60°)	393.5	43.5			
FH	(60°-80°)	157.9	17.4			G0/660
FVH	(80°-90°)	5.4	0.6			G0/10
BL	(0°-30°)	70.3	7.8	B0/110		
BM	(30°-60°)	119.3	13.2	B0/220		
BH	(60°-80°)	52.4	5.8	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	140.0	140.0	140.0	140.0	140.0	139.0	139.0	139.0	139.0	139.0	140.0
5°	148.0	148.0	148.0	147.0	145.0	143.0	142.0	141.0	141.0	141.0	142.0
7.5°	163.0	163.0	163.0	159.0	156.0	152.0	149.0	147.0	145.0	145.0	145.0
10°	189.0	188.0	186.0	178.0	173.0	164.0	159.0	154.0	151.0	150.0	150.0
12.5°	219.0	220.0	216.0	205.0	196.0	183.0	173.0	164.0	159.0	157.0	157.0
15°	249.0	249.0	247.0	234.0	224.0	207.0	192.0	179.0	170.0	167.0	167.0
17.5°	271.0	272.0	269.0	261.0	252.0	233.0	214.0	195.0	182.0	178.0	178.0
20°	293.0	293.0	290.0	279.0	272.0	259.0	237.0	212.0	195.0	190.0	189.0
22.5°	317.1	318.1	312.1	299.0	289.0	277.0	260.0	232.0	211.0	205.0	203.0
25°	344.1	345.1	336.1	322.1	308.1	293.0	279.0	255.0	229.0	222.0	219.0
27.5°	367.1	365.1	361.1	347.1	328.1	310.1	297.0	275.0	249.0	240.0	235.0
30°	389.1	390.1	383.1	368.1	349.1	329.1	311.1	295.0	267.0	256.0	246.0
32.5°	423.1	424.1	412.1	388.1	365.1	347.1	330.1	310.1	283.0	269.0	254.0
35°	447.1	446.1	440.1	413.1	382.1	365.1	351.1	328.1	298.0	281.0	260.0
37.5°	440.1	438.1	443.1	429.1	403.1	384.1	369.1	348.1	313.1	292.0	266.0
40°	420.1	416.1	425.1	421.1	411.1	405.1	389.1	371.1	328.1	302.1	271.0
42.5°	397.1	392.1	399.1	403.1	398.1	411.1	411.1	389.1	345.1	312.1	270.0
45°	379.1	374.1	372.1	376.1	376.1	394.1	422.1	412.1	361.1	324.1	273.0
47.5°	358.1	351.1	347.1	347.1	351.1	362.1	415.1	437.1	383.1	340.1	281.0
50°	326.1	318.1	319.1	322.1	331.1	331.1	384.1	446.1	413.1	363.1	295.0
52.5°	261.0	253.0	268.0	296.0	318.1	311.1	341.1	435.1	455.1	391.1	316.1
55°	184.0	179.0	196.0	241.0	296.0	302.1	307.1	410.1	490.1	434.1	340.1
57.5°	124.0	121.0	137.0	176.0	249.0	302.1	293.0	374.1	504.1	494.1	378.1
60°	83.0	82.0	93.0	122.0	181.0	283.0	299.0	348.1	506.1	542.1	428.1
62.5°	60.0	59.0	66.0	84.0	126.0	219.0	320.1	350.1	515.1	559.1	477.1
65°	45.0	45.0	48.0	61.0	84.0	149.0	310.1	386.1	515.1	546.1	493.1
67.5°	36.0	36.0	38.0	46.0	62.0	96.0	233.0	448.1	469.1	472.1	428.1
70°	30.0	30.0	31.0	36.0	46.0	65.0	145.0	429.1	366.1	348.1	341.1
72.5°	22.0	22.0	25.0	29.0	36.0	47.0	85.0	316.1	270.0	237.0	262.0
75°	16.0	16.0	18.0	23.0	28.0	33.0	51.0	189.0	210.0	168.0	210.0
77.5°	11.0	11.0	13.0	17.0	19.0	23.0	31.0	98.0	190.0	124.0	151.0
80°	8.0	7.0	8.0	11.0	13.0	14.0	18.0	44.0	123.0	74.0	77.0
82.5°	4.0	4.0	4.0	6.0	7.0	8.0	10.0	19.0	50.0	36.0	34.0
85°	1.0	1.0	1.0	2.0	3.0	4.0	5.0	8.0	15.0	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°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	140.0	140.0	141.0	142.0	143.0	144.0	144.0	145.0	146.0	146.0	145.0
5°	142.0	143.0	145.0	146.0	149.0	150.0	151.0	152.0	153.0	154.0	154.0
7.5°	146.0	146.0	149.0	152.0	155.0	157.0	159.0	160.0	160.0	160.0	160.0
10°	151.0	151.0	155.0	158.0	162.0	165.0	166.0	167.0	166.0	167.0	166.0
12.5°	158.0	159.0	163.0	167.0	172.0	174.0	174.0	174.0	173.0	173.0	173.0
15°	167.0	168.0	173.0	178.0	183.0	183.0	181.0	179.0	179.0	178.0	178.0
17.5°	178.0	179.0	184.0	188.0	189.0	187.0	184.0	180.0	176.0	176.0	175.0
20°	189.0	190.0	193.0	191.0	189.0	184.0	178.0	172.0	170.0	169.0	168.0
22.5°	202.0	200.0	197.0	188.0	183.0	175.0	167.0	157.0	153.0	153.0	152.0
25°	215.0	209.0	195.0	182.0	175.0	164.0	151.0	141.0	138.0	137.0	136.0
27.5°	225.0	213.0	189.0	174.0	166.0	151.0	136.0	126.0	122.0	122.0	122.0
30°	231.0	213.0	182.0	168.0	158.0	139.0	124.0	113.0	108.0	107.0	107.0
32.5°	232.0	210.0	175.0	162.0	152.0	130.0	112.0	101.0	96.0	95.0	94.0
35°	232.0	205.0	170.0	159.0	144.0	121.0	103.0	91.0	87.0	85.0	85.0
37.5°	233.0	202.0	168.0	156.0	136.0	112.0	95.0	85.0	80.0	78.0	78.0
40°	234.0	201.0	167.0	153.0	129.0	105.0	89.0	78.0	72.0	70.0	70.0
42.5°	228.0	197.0	167.0	150.0	120.0	96.0	81.0	70.0	66.0	64.0	63.0
45°	225.0	196.0	168.0	146.0	112.0	86.0	71.0	62.0	58.0	57.0	56.0
47.5°	229.0	198.0	170.0	142.0	99.0	74.0	61.0	52.0	48.0	47.0	46.0
50°	237.0	202.0	172.0	136.0	86.0	63.0	51.0	42.0	37.0	36.0	35.0
52.5°	248.0	205.0	172.0	127.0	74.0	53.0	42.0	33.0	30.0	29.0	29.0
55°	262.0	211.0	174.0	117.0	64.0	45.0	34.0	28.0	26.0	26.0	26.0
57.5°	281.0	217.0	177.0	106.0	57.0	36.0	28.0	25.0	23.0	23.0	23.0
60°	303.1	229.0	190.0	99.0	48.0	29.0	25.0	22.0	20.0	20.0	20.0
62.5°	326.1	248.0	211.0	90.0	38.0	25.0	23.0	19.0	17.0	16.0	16.0
65°	343.1	271.0	233.0	78.0	28.0	22.0	20.0	15.0	12.0	12.0	12.0
67.5°	328.1	275.0	222.0	60.0	22.0	19.0	16.0	12.0	9.0	8.0	8.0
70°	280.0	243.0	147.0	37.0	18.0	15.0	12.0	8.0	5.0	4.0	4.0
72.5°	217.0	192.0	76.0	22.0	14.0	11.0	8.0	5.0	3.0	3.0	3.0
75°	187.0	150.0	41.0	15.0	10.0	7.0	6.0	4.0	2.0	2.0	2.0
77.5°	159.0	116.0	24.0	10.0	6.0	5.0	4.0	3.0	1.0	1.0	1.0
80°	94.0	66.0	14.0	7.0	4.0	3.0	2.0	2.0	1.0	0.0	0.0
82.5°	41.0	29.0	8.0	4.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
85°	17.0	13.0	5.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	1.0	1.0	0.0	0.0	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)