

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: STREETWORKS

Report Number: P1209914

Luminaire Tested: **ARCH1-20-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

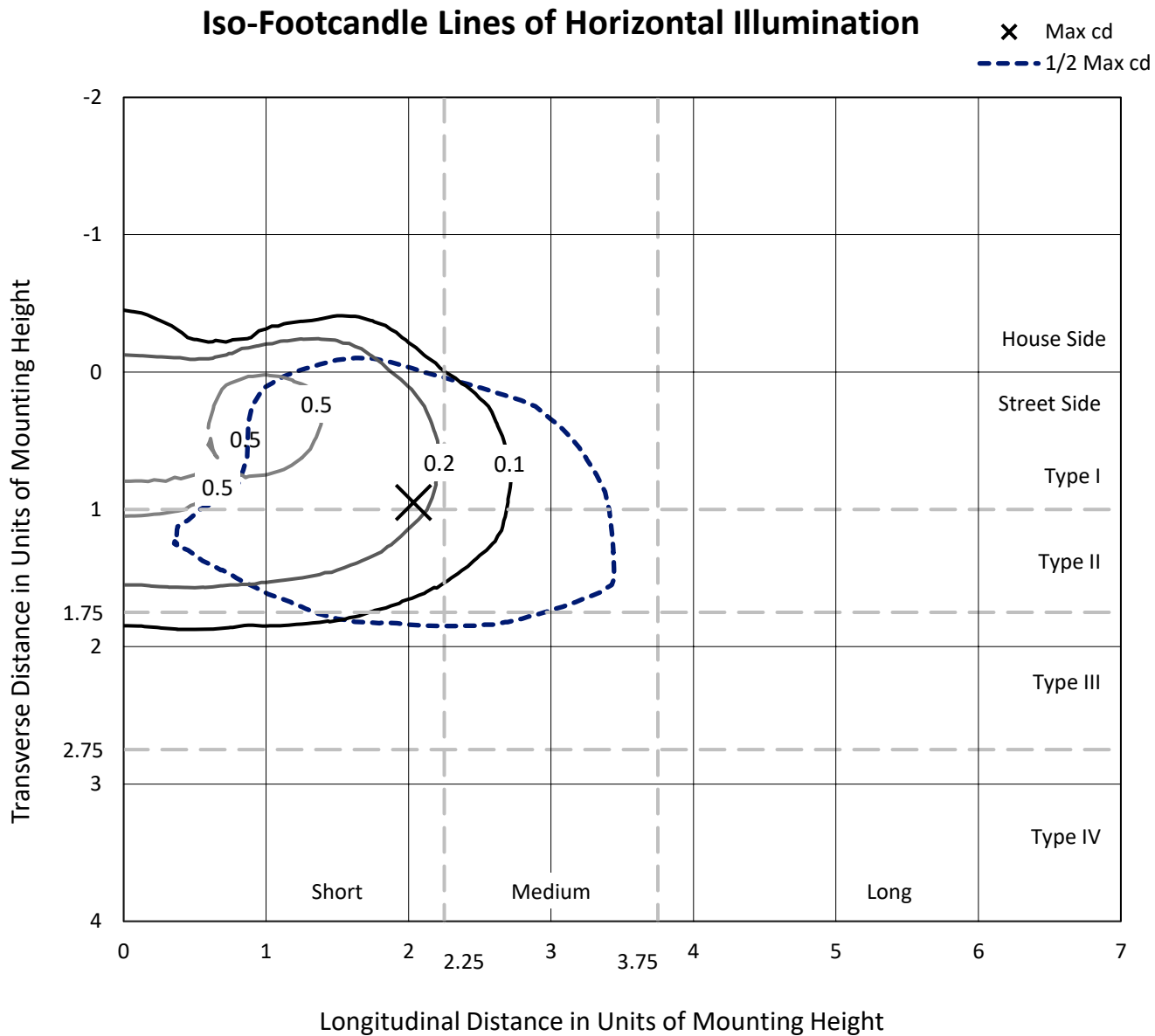
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2396 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 23.5
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



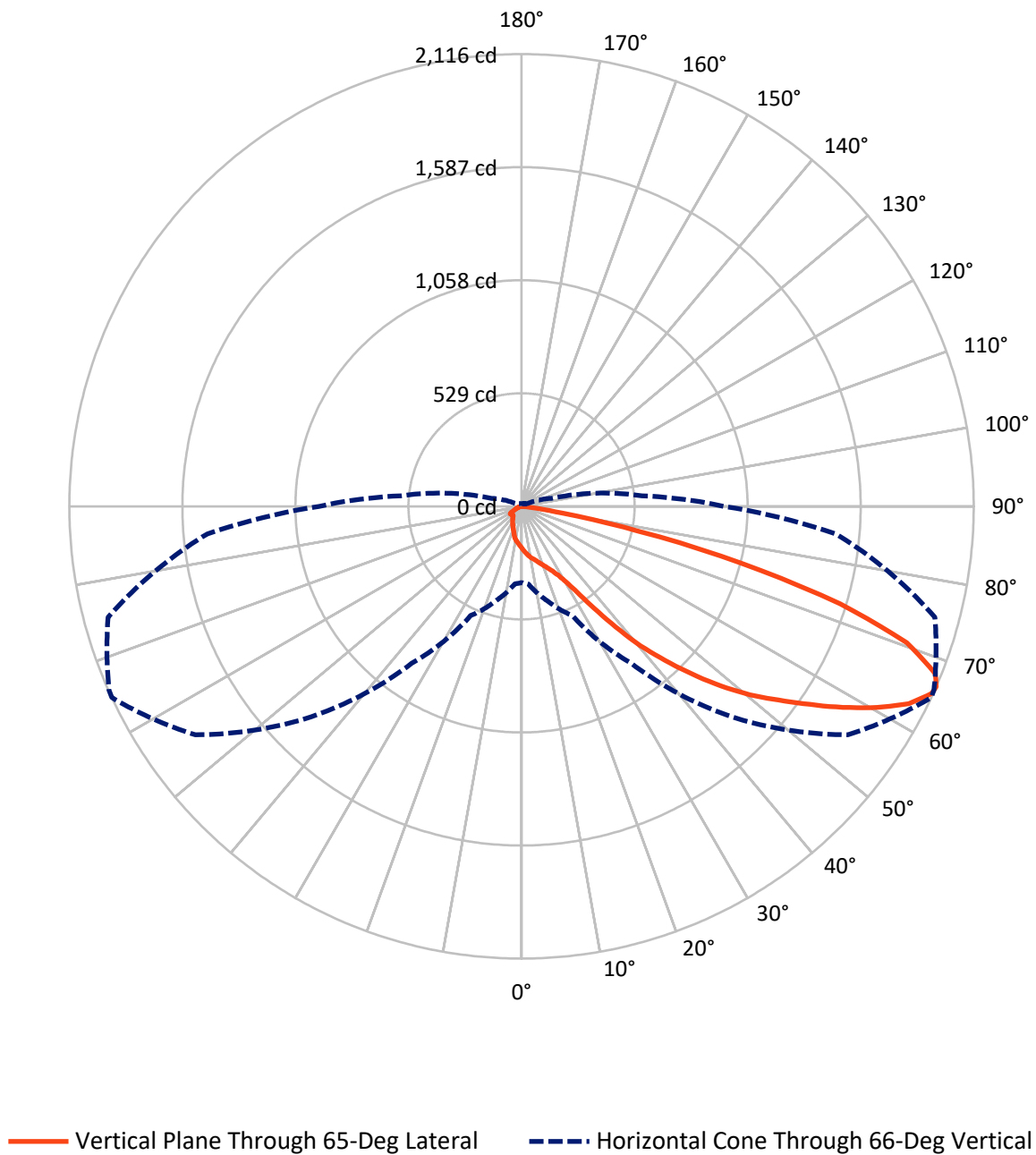
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Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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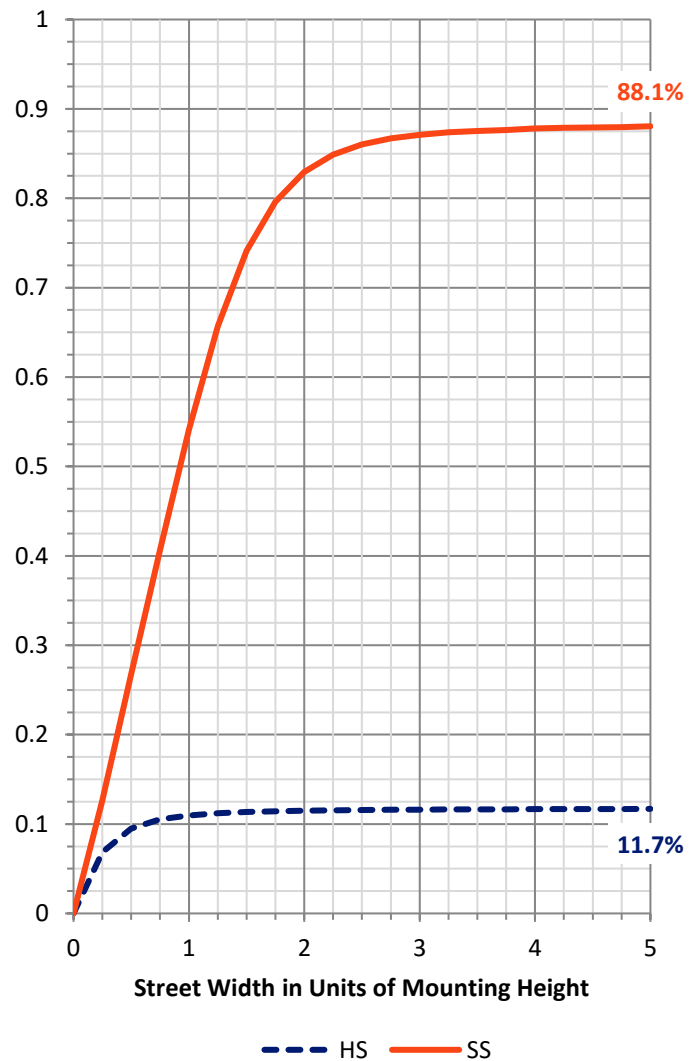
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.8	0.0	282.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2113.2	0.0	2113.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	2396.0	0.0	2396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.8
10°-20°	54.8	2.3
20°-30°	100.3	4.2
30°-40°	203.7	8.5
40°-50°	430.3	18.0
50°-60°	661.4	27.6
60°-70°	665.8	27.8
70°-80°	248.8	10.4
80°-90°	12.4	0.5
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°	2396.0	100.0
0°-180°	2396.0	100.0

Coefficient of Utilization



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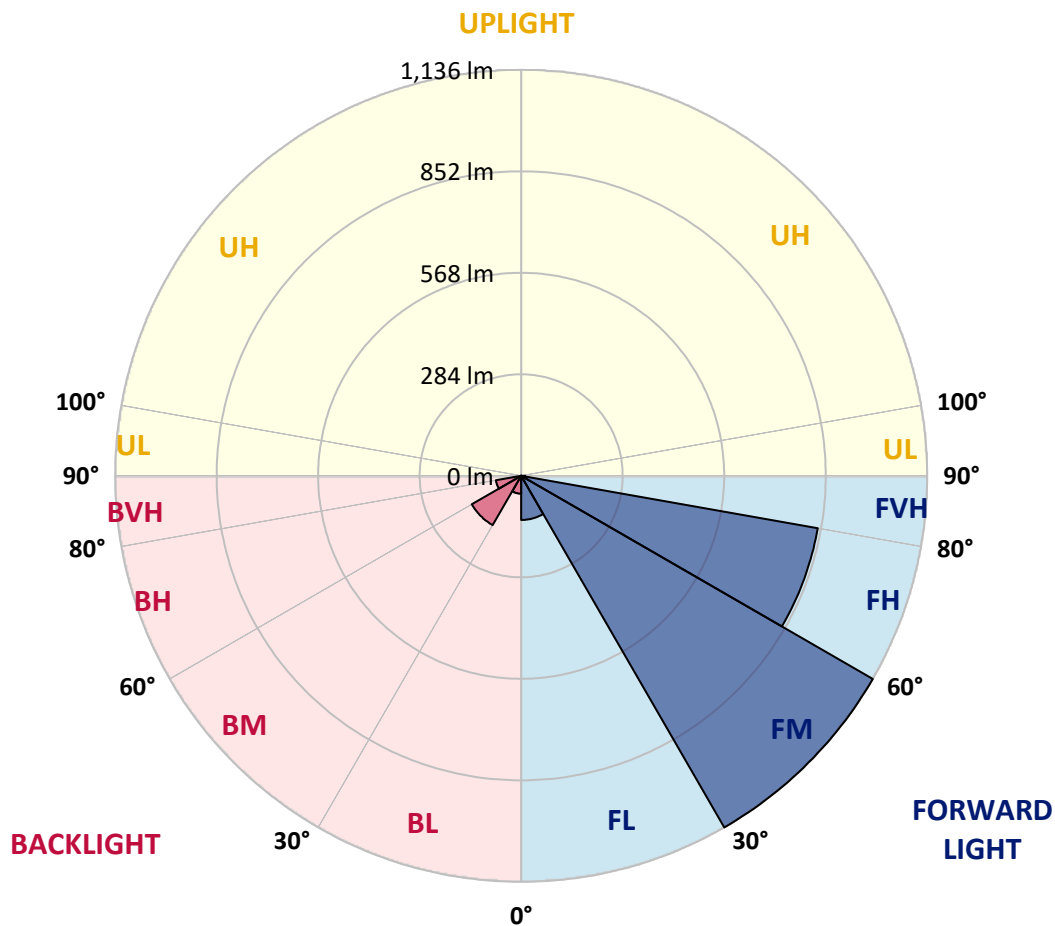
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.5	5.2			
FM	(30°-60°)	1136.0	47.4			
FH	(60°-80°)	842.7	35.2			G1/1800
FVH	(80°-90°)	11.0	0.5			G1/100
BL	(0°-30°)	50.0	2.1	B0/110		
BM	(30°-60°)	159.4	6.7	B0/220		
BH	(60°-80°)	71.8	3.0	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2
2.5°	222.6	223.0	222.2	220.4	218.7	216.5	213.0	207.4	206.5	202.6	198.2
5°	237.8	238.7	237.4	236.9	236.1	233.0	228.2	220.0	219.1	211.3	201.3
7.5°	243.0	244.3	243.5	243.5	243.5	242.2	240.0	232.6	231.3	221.3	206.1
10°	246.9	247.8	247.4	249.1	250.4	249.6	248.2	243.9	242.6	232.6	212.6
12.5°	253.0	253.5	253.9	254.8	256.9	257.8	257.4	253.5	252.6	245.6	220.9
15°	258.7	258.7	259.1	263.0	266.1	267.8	268.2	265.2	264.3	258.7	231.3
17.5°	263.9	264.3	265.6	270.0	275.2	278.7	280.9	279.5	278.2	273.9	243.5
20°	271.7	272.6	273.9	280.0	285.2	290.9	295.2	294.8	294.3	291.3	257.8
22.5°	285.2	286.1	288.2	293.9	299.1	306.1	313.5	313.0	311.7	309.5	274.8
25°	305.6	305.6	306.9	311.7	318.2	326.5	333.5	334.8	333.5	332.2	296.1
27.5°	331.3	331.7	331.7	336.9	343.0	353.5	362.2	363.5	363.5	362.2	324.8
30°	366.9	365.6	364.8	369.1	375.6	390.8	406.1	408.7	407.4	409.5	365.2
32.5°	428.2	426.1	418.7	419.5	423.5	444.3	470.0	479.1	478.7	482.6	430.4
35°	513.0	508.7	497.8	488.7	488.2	510.8	550.0	584.3	583.9	597.4	529.5
37.5°	608.7	614.3	593.9	578.2	573.4	591.3	641.7	716.0	720.0	743.4	659.5
40°	736.5	740.0	713.9	691.7	669.1	675.6	742.1	857.8	864.7	890.8	789.5
42.5°	847.8	851.3	836.0	809.1	780.4	768.2	843.4	986.5	992.1	1028.2	923.4
45°	923.4	926.0	931.3	933.9	901.3	876.0	967.3	1118.6	1125.6	1167.3	1054.3
47.5°	982.6	984.7	995.2	1021.2	1014.7	994.7	1093.4	1256.0	1257.8	1304.3	1181.7
50°	1009.9	1015.2	1040.8	1080.8	1109.5	1115.2	1230.4	1386.0	1390.8	1435.1	1302.1
52.5°	979.5	981.3	1046.0	1121.2	1179.1	1236.5	1367.8	1506.4	1520.4	1553.4	1410.4
55°	876.9	889.5	987.8	1119.9	1233.8	1351.7	1514.7	1636.4	1649.0	1669.9	1505.6
57.5°	757.8	771.7	891.3	1063.9	1257.3	1458.2	1650.8	1774.7	1783.4	1789.0	1593.0
60°	654.7	667.8	790.8	956.5	1233.8	1533.4	1777.3	1912.1	1919.5	1904.2	1636.9
62.5°	528.2	541.3	665.2	814.3	1141.7	1548.6	1871.2	2034.2	2037.3	1996.0	1609.9
65°	398.2	406.9	510.4	638.2	980.4	1467.7	1892.5	2110.3	2107.3	2022.5	1529.0
66°	356.9	364.3	455.6	564.3	896.5	1393.8	1863.8	2116.4	2113.4	2002.9	1476.0
67.5°	307.8	310.0	385.2	461.7	750.0	1236.9	1776.4	2088.6	2091.2	1949.0	1379.1
70°	240.4	240.0	283.5	321.3	512.1	880.0	1481.7	1913.4	1926.0	1745.6	1176.0
72.5°	153.9	148.7	173.9	196.5	298.2	510.8	1080.4	1559.5	1580.8	1371.2	876.0
75°	91.7	86.5	92.6	98.3	143.0	245.6	635.2	1061.2	1081.7	879.1	521.3
77.5°	68.7	66.5	67.0	62.2	63.5	92.2	290.0	560.8	575.6	360.0	197.8
80°	52.6	47.0	43.9	46.1	41.7	36.5	107.8	193.0	202.2	85.2	41.3
82.5°	35.2	30.4	28.3	30.9	26.5	20.4	26.1	37.4	36.5	23.0	16.1
85°	18.3	15.7	15.7	15.7	13.5	10.0	11.3	15.2	15.2	12.2	9.6
87.5°	5.2	4.8	5.7	5.2	3.9	3.9	4.3	5.2	5.2	4.8	4.3
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°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2
2.5°	194.8	193.0	188.3	184.8	181.3	178.3	174.8	173.9	172.2	172.6	171.7
5°	196.1	191.3	183.0	175.2	169.1	163.9	157.4	154.8	151.3	150.0	149.1
7.5°	197.8	190.9	178.7	167.8	157.4	146.9	136.5	130.4	126.5	124.8	123.5
10°	201.7	192.6	176.5	159.6	141.7	126.9	116.5	112.2	109.6	109.1	108.7
12.5°	206.9	195.2	174.3	149.1	125.6	111.7	105.2	103.9	103.5	103.5	103.0
15°	214.8	199.6	170.9	136.9	113.0	103.5	100.4	98.3	97.4	97.4	97.4
17.5°	222.6	204.8	165.6	124.3	104.3	98.3	95.2	93.9	93.0	93.5	93.0
20°	232.6	210.9	158.7	113.5	98.7	93.9	90.9	89.6	89.1	89.1	89.1
22.5°	243.9	217.8	150.0	105.2	93.9	89.6	86.5	85.2	84.3	84.8	84.8
25°	259.1	226.5	140.9	97.0	89.1	85.2	81.7	80.0	80.0	80.4	80.9
27.5°	278.7	236.9	131.7	91.7	84.8	80.9	77.0	75.2	75.6	76.5	76.5
30°	307.4	251.3	122.6	86.1	80.0	75.6	72.2	70.4	71.3	73.0	73.0
32.5°	348.2	274.8	114.8	79.6	73.0	68.3	64.8	63.5	65.6	69.1	69.1
35°	421.3	317.8	110.0	73.0	65.6	60.0	55.6	54.3	57.4	61.7	61.7
37.5°	519.1	386.9	111.7	67.4	59.6	53.0	48.3	46.5	48.7	52.6	53.9
40°	628.2	470.4	126.9	62.6	53.9	47.4	42.6	40.9	42.2	43.9	44.3
42.5°	737.4	559.1	155.6	59.1	49.6	42.6	38.3	37.0	37.8	38.3	38.7
45°	846.0	646.9	191.7	57.0	45.6	38.7	34.3	34.3	34.8	34.8	34.8
47.5°	949.1	732.6	229.6	56.5	42.2	34.8	31.3	31.7	31.7	32.2	32.2
50°	1046.5	809.1	267.8	57.8	39.1	31.3	28.7	28.7	28.7	29.1	28.7
52.5°	1127.8	876.0	307.8	60.0	36.1	28.7	26.1	26.1	26.1	26.5	26.1
55°	1204.7	936.9	348.7	63.0	33.5	26.5	23.9	23.0	23.0	23.5	23.0
57.5°	1267.3	977.3	387.4	63.5	31.3	24.3	22.2	20.9	20.9	20.9	20.9
60°	1269.9	953.9	398.7	55.6	28.7	22.2	20.0	18.3	18.7	18.7	18.7
62.5°	1186.9	830.4	320.4	41.7	25.7	20.0	18.3	16.5	16.5	16.5	16.5
65°	1023.9	646.1	187.8	33.0	22.2	17.8	16.1	14.8	14.8	14.8	14.3
66°	947.3	566.5	143.9	30.0	20.9	17.4	15.7	14.3	13.9	13.5	13.5
67.5°	822.6	447.8	90.0	26.5	19.1	16.1	14.3	13.0	12.6	12.2	12.2
70°	619.5	284.3	43.9	20.4	16.5	13.9	12.6	11.3	10.9	10.4	10.0
72.5°	434.8	166.5	23.0	15.7	13.5	12.2	10.9	9.6	9.1	8.7	8.7
75°	245.6	80.4	15.2	11.3	10.9	10.0	9.1	7.8	7.4	7.4	7.4
77.5°	93.0	27.8	10.4	8.3	8.7	7.8	6.5	6.5	6.1	6.5	6.1
80°	24.3	12.2	6.5	6.1	6.5	5.7	4.8	5.2	5.2	5.2	5.2
82.5°	13.0	7.0	3.9	4.3	3.9	3.9	3.0	3.5	3.9	3.5	3.9
85°	9.1	3.5	2.2	2.2	1.7	1.7	1.3	1.7	2.2	1.7	1.7
87.5°	4.8	1.3	1.3	1.3	1.3	0.9	0.4	0.0	0.4	0.4	0.4
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)