

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: P1209910

Luminaire Tested: **ARCH1-20-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209910
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: ARCH1-20-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 2172 lumens
Efficiency: N/A
Efficacy: 92.4 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



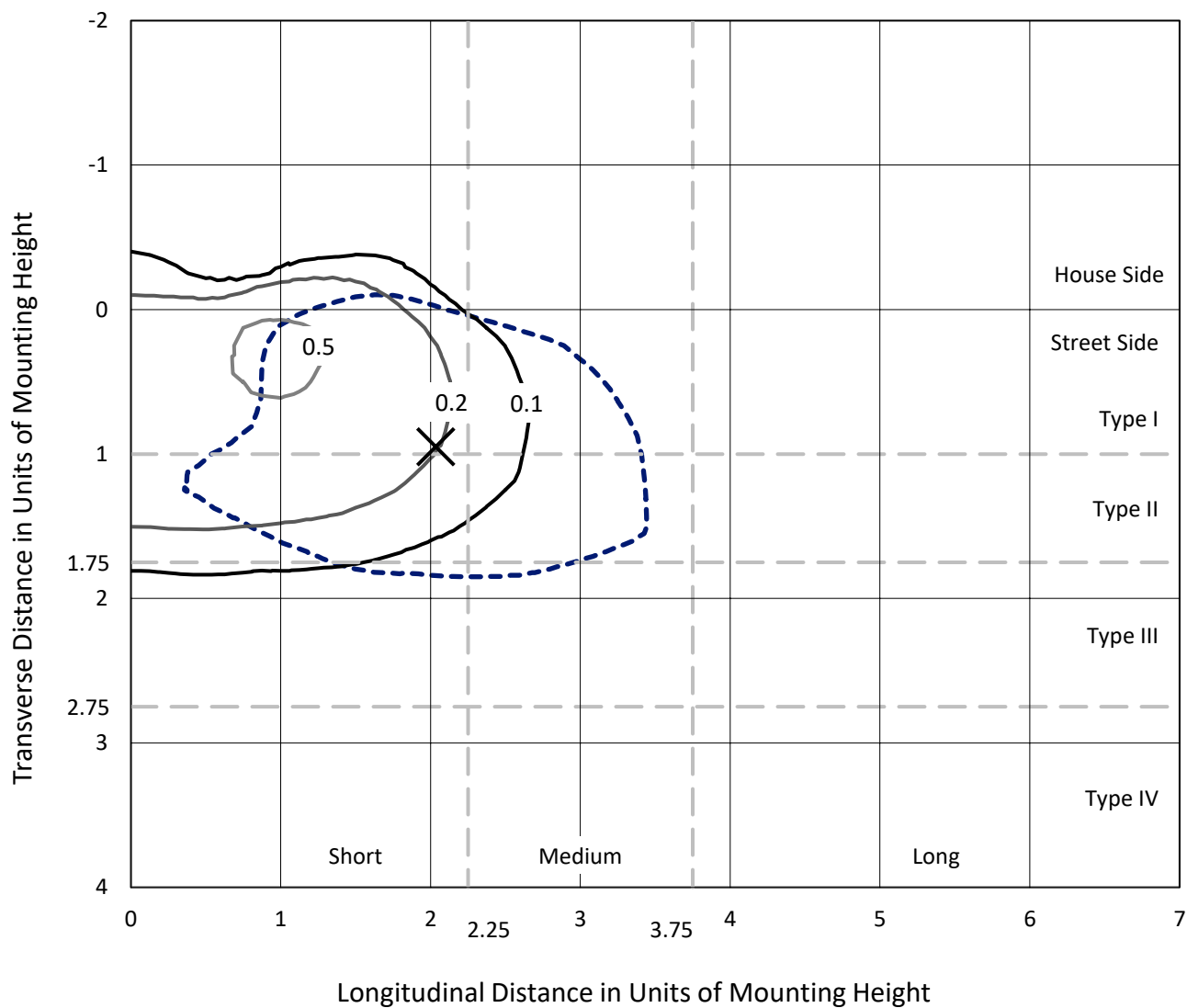
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Iso-Footcandle Lines of Horizontal Illumination

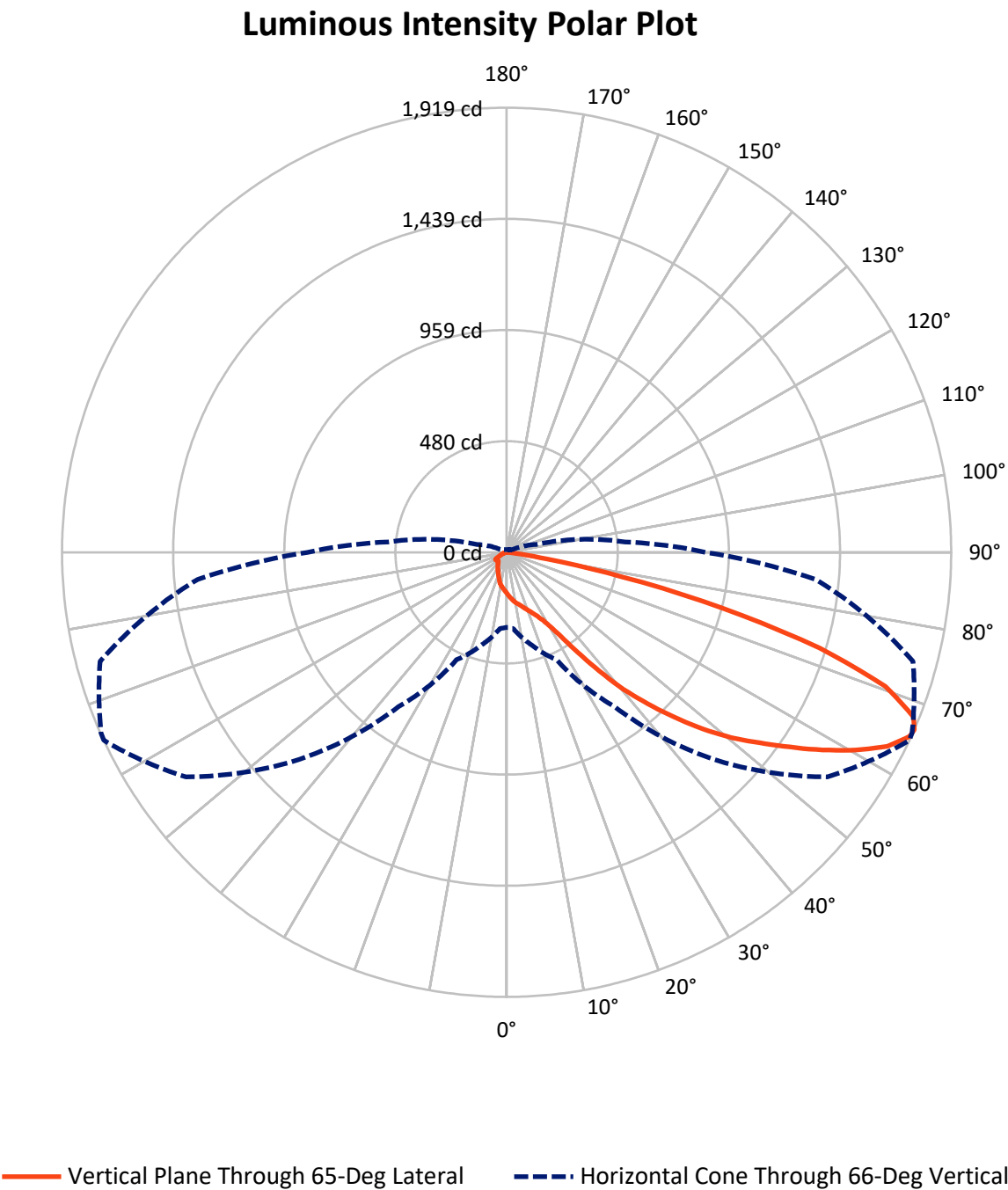
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type III - Short - N/A

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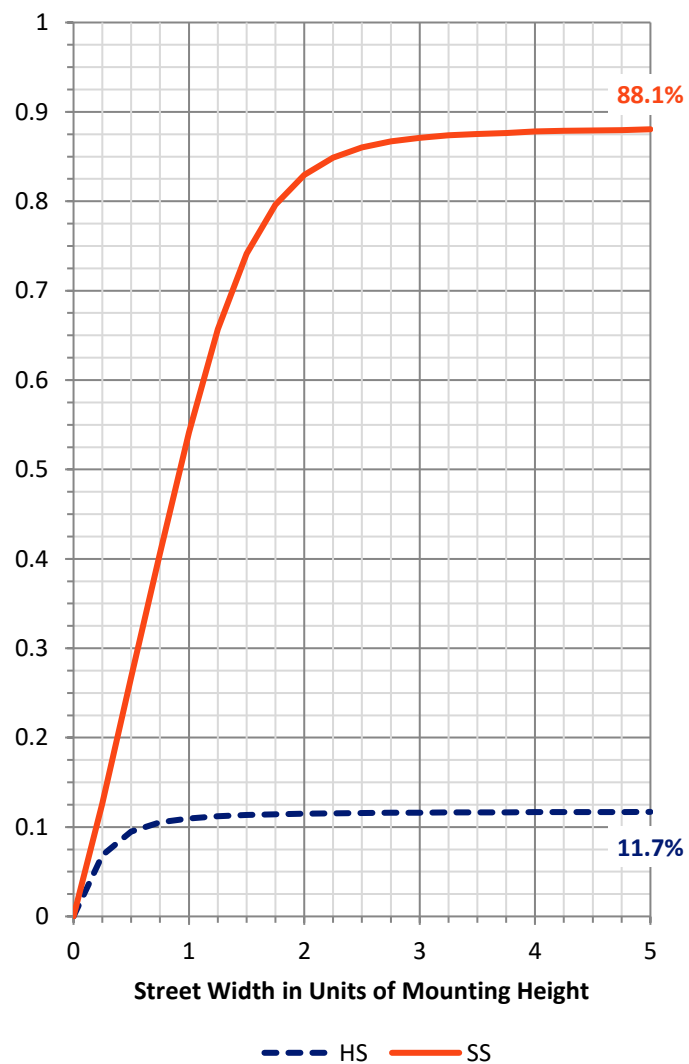
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.3	0.0	256.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	1915.7	0.0	1915.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	2172.0	0.0	2172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	0.8
10°-20°	49.7	2.3
20°-30°	90.9	4.2
30°-40°	184.7	8.5
40°-50°	390.0	18.0
50°-60°	599.6	27.6
60°-70°	603.5	27.8
70°-80°	225.5	10.4
80°-90°	11.3	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°	2172.0	100.0
0°-180°	2172.0	100.0

Coefficient of Utilization



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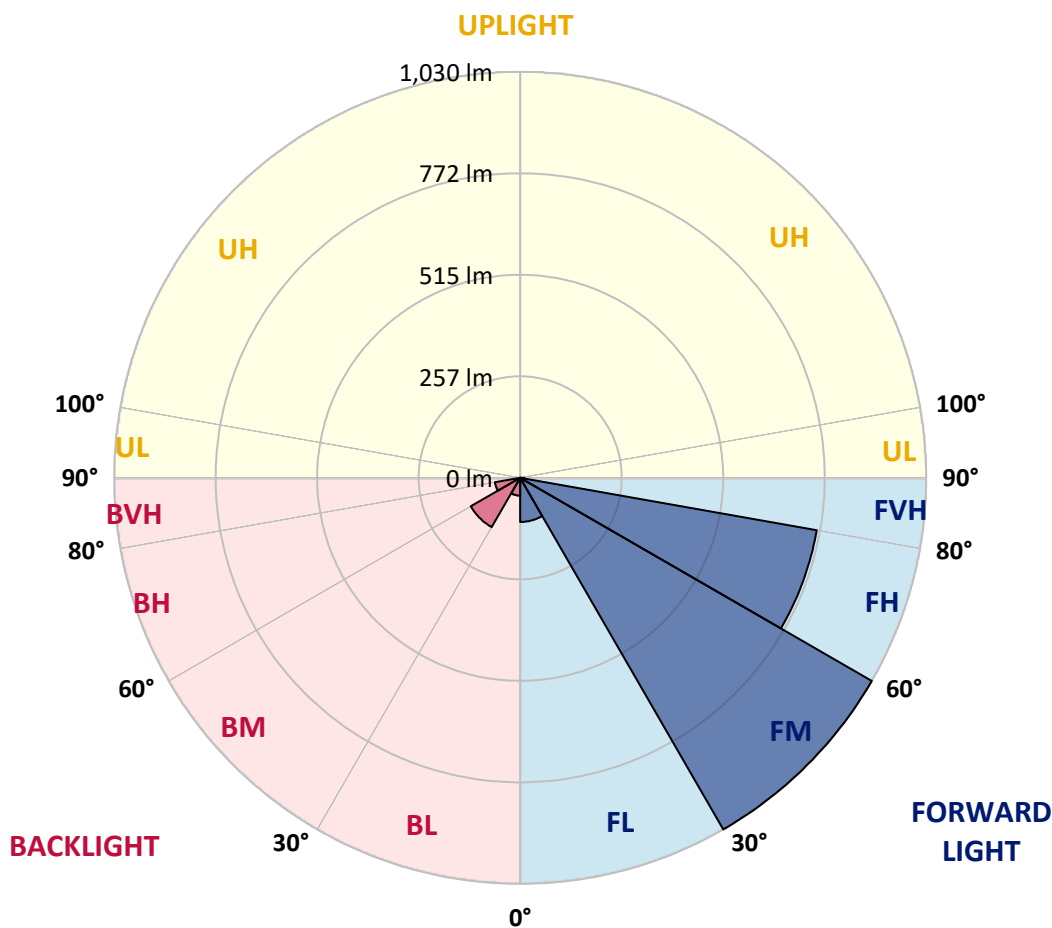
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.0	5.2			
FM	(30°-60°)	1029.8	47.4			
FH	(60°-80°)	763.9	35.2			G1/1800
FVH	(80°-90°)	9.9	0.5			G0/10
BL	(0°-30°)	45.4	2.1	B0/110		
BM	(30°-60°)	144.5	6.7	B0/220		
BH	(60°-80°)	65.1	3.0	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
2.5°	201.8	202.2	201.4	199.8	198.2	196.3	193.1	188.0	187.2	183.7	179.7
5°	215.6	216.4	215.2	214.8	214.0	211.2	206.9	199.4	198.6	191.5	182.5
7.5°	220.3	221.5	220.7	220.7	220.7	219.5	217.6	210.9	209.7	200.6	186.8
10°	223.9	224.6	224.3	225.8	227.0	226.2	225.0	221.1	219.9	210.9	192.7
12.5°	229.4	229.8	230.2	231.0	232.9	233.7	233.3	229.8	229.0	222.7	200.2
15°	234.5	234.5	234.9	238.4	241.2	242.8	243.2	240.4	239.6	234.5	209.7
17.5°	239.2	239.6	240.8	244.7	249.5	252.6	254.6	253.4	252.2	248.3	220.7
20°	246.3	247.1	248.3	253.8	258.5	263.7	267.6	267.2	266.8	264.1	233.7
22.5°	258.5	259.3	261.3	266.4	271.1	277.5	284.2	283.8	282.6	280.6	249.1
25°	277.1	277.1	278.2	282.6	288.5	296.0	302.3	303.5	302.3	301.1	268.4
27.5°	300.3	300.7	300.7	305.4	311.0	320.4	328.3	329.5	329.5	328.3	294.4
30°	332.6	331.4	330.7	334.6	340.5	354.3	368.1	370.5	369.3	371.3	331.1
32.5°	388.2	386.2	379.5	380.3	383.9	402.8	426.0	434.3	433.9	437.5	390.2
35°	465.1	461.1	451.3	443.0	442.6	463.1	498.6	529.7	529.3	541.5	480.0
37.5°	551.8	556.9	538.4	524.2	519.8	536.0	581.7	649.1	652.7	673.9	597.9
40°	667.6	670.8	647.1	627.0	606.5	612.5	672.8	777.6	783.9	807.5	715.7
42.5°	768.5	771.7	757.9	733.4	707.4	696.4	764.6	894.2	899.4	932.1	837.1
45°	837.1	839.5	844.2	846.6	817.0	794.1	876.9	1014.1	1020.4	1058.2	955.7
47.5°	890.7	892.7	902.1	925.8	919.9	901.7	991.2	1138.6	1140.2	1182.3	1071.2
50°	915.5	920.3	943.5	979.8	1005.8	1010.9	1115.3	1256.4	1260.8	1301.0	1180.4
52.5°	887.9	889.5	948.2	1016.4	1068.8	1120.9	1239.9	1365.6	1378.2	1408.2	1278.5
55°	794.9	806.4	895.4	1015.2	1118.5	1225.3	1373.1	1483.4	1494.9	1513.8	1364.8
57.5°	686.9	699.6	807.9	964.4	1139.8	1321.9	1496.4	1608.8	1616.7	1621.8	1444.0
60°	593.5	605.4	716.9	867.0	1118.5	1390.0	1611.1	1733.3	1740.0	1726.2	1483.8
62.5°	478.8	490.7	603.0	738.2	1034.9	1403.8	1696.3	1844.1	1846.8	1809.4	1459.4
65°	361.0	368.9	462.7	578.6	888.7	1330.5	1715.6	1913.0	1910.3	1833.4	1386.1
66°	323.6	330.3	413.0	511.6	812.7	1263.5	1689.6	1918.5	1915.8	1815.7	1338.0
67.5°	279.0	281.0	349.2	418.5	679.8	1121.3	1610.3	1893.3	1895.7	1766.8	1250.1
70°	217.9	217.6	257.0	291.2	464.3	797.7	1343.1	1734.5	1745.9	1582.4	1066.1
72.5°	139.5	134.8	157.6	178.1	270.4	463.1	979.4	1413.7	1433.0	1243.0	794.1
75°	83.2	78.4	83.9	89.1	129.7	222.7	575.8	962.0	980.6	796.9	472.5
77.5°	62.3	60.3	60.7	56.4	57.5	83.6	262.9	508.4	521.8	326.3	179.3
80°	47.7	42.6	39.8	41.8	37.8	33.1	97.7	175.0	183.3	77.2	37.4
82.5°	31.9	27.6	25.6	28.0	24.0	18.5	23.6	33.9	33.1	20.9	14.6
85°	16.6	14.2	14.2	14.2	12.2	9.1	10.2	13.8	13.8	11.0	8.7
87.5°	4.7	4.3	5.1	4.7	3.5	3.5	3.9	4.7	4.7	4.3	3.9
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°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
2.5°	176.6	175.0	170.7	167.5	164.3	161.6	158.4	157.6	156.1	156.5	155.7
5°	177.7	173.4	165.9	158.8	153.3	148.6	142.7	140.3	137.2	136.0	135.2
7.5°	179.3	173.0	162.0	152.1	142.7	133.2	123.8	118.2	114.7	113.1	111.9
10°	182.9	174.6	160.0	144.6	128.5	115.1	105.6	101.7	99.3	98.9	98.5
12.5°	187.6	177.0	158.0	135.2	113.9	101.3	95.4	94.2	93.8	93.8	93.4
15°	194.7	180.9	154.9	124.1	102.5	93.8	91.0	89.1	88.3	88.3	88.3
17.5°	201.8	185.6	150.2	112.7	94.6	89.1	86.3	85.1	84.3	84.7	84.3
20°	210.9	191.1	143.9	102.9	89.5	85.1	82.4	81.2	80.8	80.8	80.8
22.5°	221.1	197.5	136.0	95.4	85.1	81.2	78.4	77.2	76.5	76.9	76.9
25°	234.9	205.3	127.7	87.9	80.8	77.2	74.1	72.5	72.5	72.9	73.3
27.5°	252.6	214.8	119.4	83.2	76.9	73.3	69.8	68.2	68.6	69.4	69.4
30°	278.6	227.8	111.1	78.0	72.5	68.6	65.4	63.8	64.6	66.2	66.2
32.5°	315.7	249.1	104.0	72.1	66.2	61.9	58.7	57.5	59.5	62.7	62.7
35°	381.9	288.1	99.7	66.2	59.5	54.4	50.4	49.3	52.0	56.0	56.0
37.5°	470.6	350.8	101.3	61.1	54.0	48.1	43.7	42.2	44.1	47.7	48.9
40°	569.5	426.4	115.1	56.8	48.9	43.0	38.6	37.0	38.2	39.8	40.2
42.5°	668.4	506.8	141.1	53.6	44.9	38.6	34.7	33.5	34.3	34.7	35.1
45°	766.9	586.4	173.8	51.6	41.4	35.1	31.1	31.1	31.5	31.5	31.5
47.5°	860.3	664.1	208.1	51.2	38.2	31.5	28.4	28.8	28.8	29.2	29.2
50°	948.6	733.4	242.8	52.4	35.5	28.4	26.0	26.0	26.0	26.4	26.0
52.5°	1022.3	794.1	279.0	54.4	32.7	26.0	23.6	23.6	23.6	24.0	23.6
55°	1092.1	849.3	316.1	57.1	30.3	24.0	21.7	20.9	20.9	21.3	20.9
57.5°	1148.8	886.0	351.2	57.5	28.4	22.1	20.1	18.9	18.9	18.9	18.9
60°	1151.2	864.7	361.4	50.4	26.0	20.1	18.1	16.6	16.9	16.9	16.9
62.5°	1075.9	752.8	290.5	37.8	23.3	18.1	16.6	15.0	15.0	15.0	15.0
65°	928.1	585.7	170.3	30.0	20.1	16.2	14.6	13.4	13.4	13.4	13.0
66°	858.8	513.5	130.5	27.2	18.9	15.8	14.2	13.0	12.6	12.2	12.2
67.5°	745.7	405.9	81.6	24.0	17.3	14.6	13.0	11.8	11.4	11.0	11.0
70°	561.6	257.8	39.8	18.5	15.0	12.6	11.4	10.2	9.9	9.5	9.1
72.5°	394.1	150.9	20.9	14.2	12.2	11.0	9.9	8.7	8.3	7.9	7.9
75°	222.7	72.9	13.8	10.2	9.9	9.1	8.3	7.1	6.7	6.7	6.7
77.5°	84.3	25.2	9.5	7.5	7.9	7.1	5.9	5.9	5.5	5.9	5.5
80°	22.1	11.0	5.9	5.5	5.9	5.1	4.3	4.7	4.7	4.7	4.7
82.5°	11.8	6.3	3.5	3.9	3.5	3.5	2.8	3.2	3.5	3.2	3.5
85°	8.3	3.2	2.0	2.0	1.6	1.6	1.2	1.6	2.0	1.6	1.6
87.5°	4.3	1.2	1.2	1.2	1.2	0.8	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)