

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: P798614

Luminaire Tested: **ARCH1-20-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

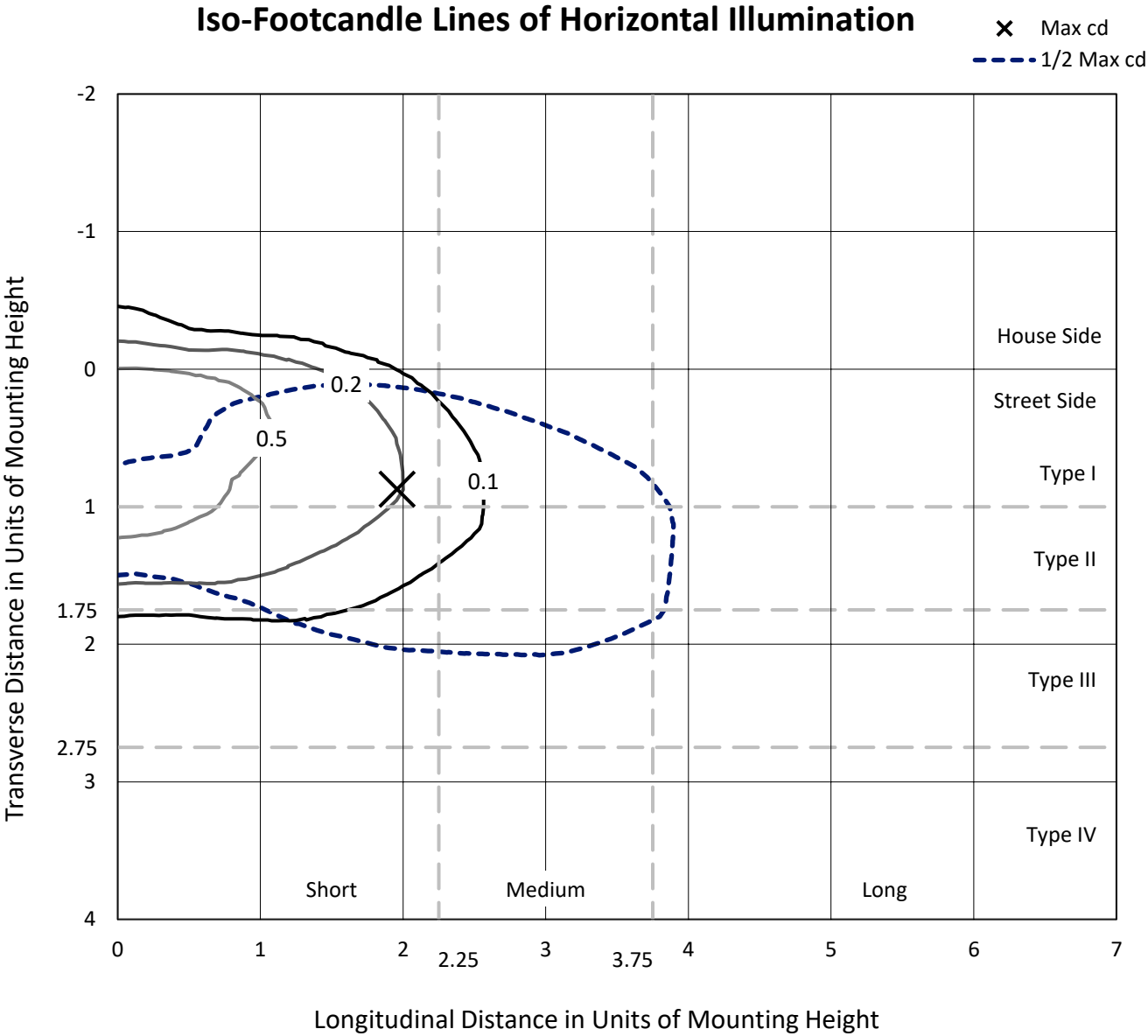
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2403 lumens
Efficiency: N/A
Efficacy: 102.3 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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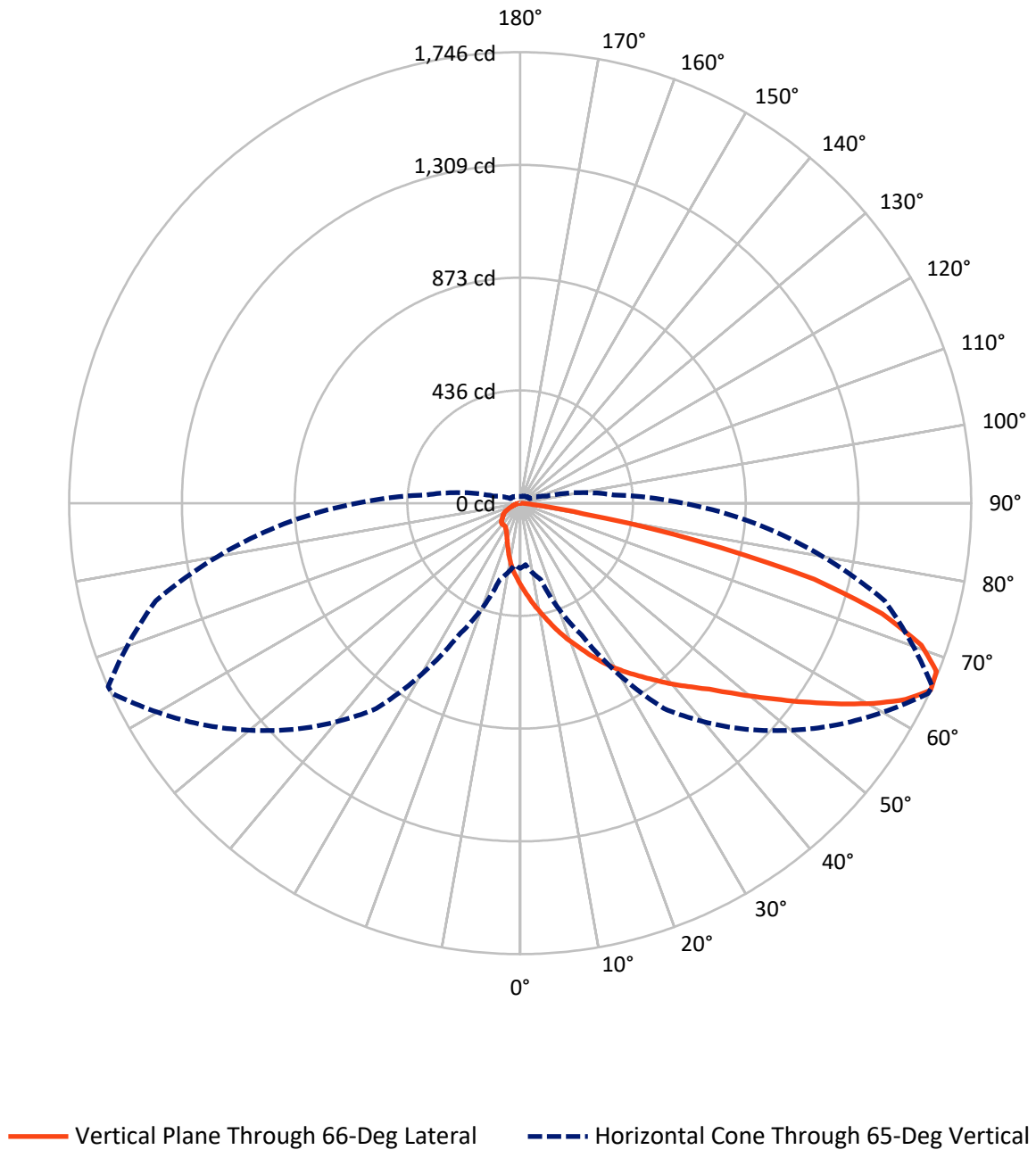


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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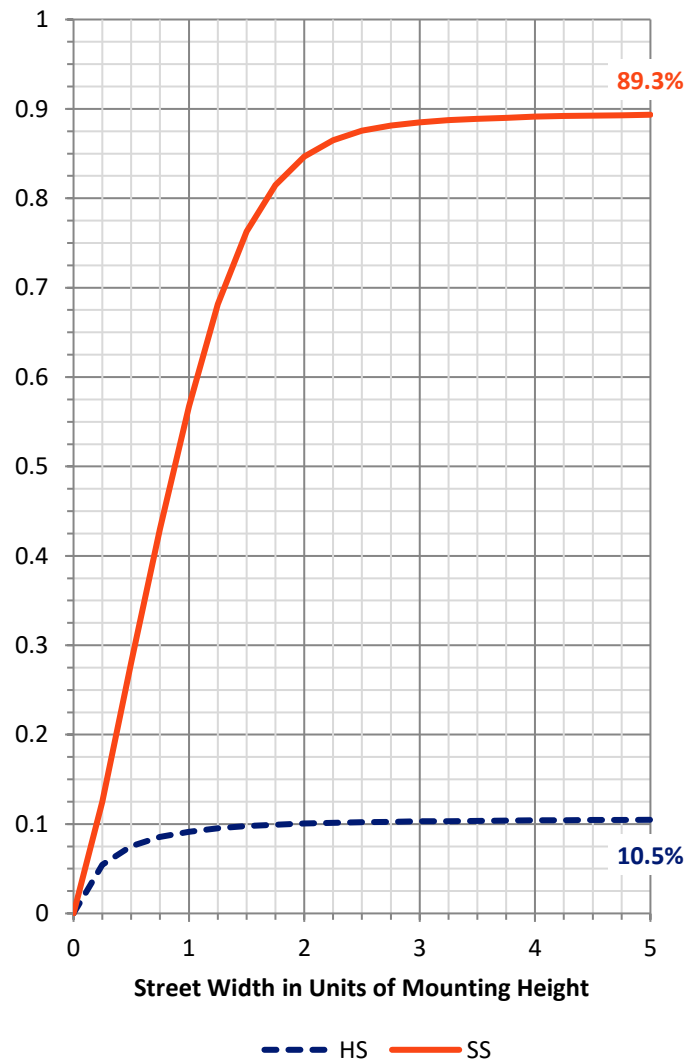
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	254.2	0.0	254.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2148.8	0.0	2148.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	2403.0	0.0	2403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	1.3
10°-20°	102.3	4.3
20°-30°	185.1	7.7
30°-40°	289.5	12.0
40°-50°	439.1	18.3
50°-60°	557.9	23.2
60°-70°	521.3	21.7
70°-80°	259.1	10.8
80°-90°	17.4	0.7
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°	2403.0	100.0
0°-180°	2403.0	100.0

Coefficient of Utilization



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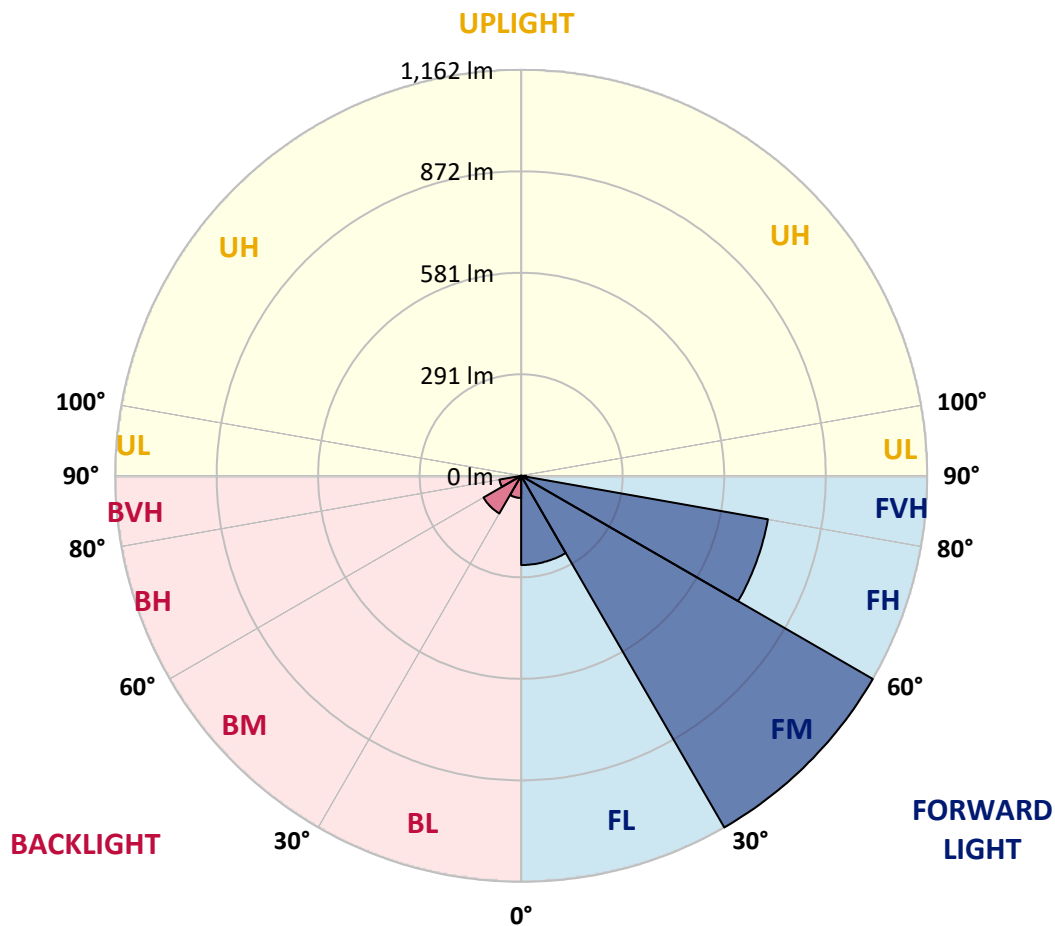
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.3	10.6			
FM	(30°-60°)	1162.1	48.4			
FH	(60°-80°)	717.1	29.8			G1/1800
FVH	(80°-90°)	14.3	0.6			G1/100
BL	(0°-30°)	63.5	2.6	B0/110		
BM	(30°-60°)	124.3	5.2	B0/220		
BH	(60°-80°)	63.3	2.6	B0/110		G0/110
BVH	(80°-90°)	3.1	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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	371.4	374.5	376.0	376.5	364.9	359.9	354.8	343.2	340.7	334.2	325.6
5°	437.0	441.0	440.0	438.0	423.9	407.7	394.6	373.0	369.4	353.8	334.7
7.5°	501.5	505.0	504.0	496.4	480.8	458.1	436.5	404.7	399.7	374.5	343.7
10°	555.4	558.4	557.9	550.4	531.7	504.0	477.8	435.5	429.4	393.6	351.3
12.5°	599.8	603.8	603.3	598.2	581.6	551.4	521.6	470.7	463.2	416.8	361.9
15°	634.5	639.6	639.6	637.6	626.0	600.8	567.0	509.5	500.5	443.5	375.0
17.5°	655.7	659.7	663.3	666.8	658.7	639.6	608.8	548.4	538.8	469.7	388.6
20°	666.8	670.8	673.3	680.9	682.4	672.8	648.6	586.7	576.6	499.5	404.2
22.5°	684.9	688.5	689.0	695.5	698.5	701.1	685.9	624.5	616.4	532.2	421.8
25°	715.2	719.2	717.7	720.7	721.2	724.2	722.7	667.8	659.7	569.5	443.0
27.5°	754.0	759.0	758.0	755.0	750.5	747.9	754.5	711.6	704.1	606.8	464.7
30°	795.8	801.9	800.4	794.3	782.2	771.6	780.7	753.0	745.9	645.1	488.9
32.5°	838.2	845.2	844.7	834.6	814.0	795.8	809.4	791.8	786.7	686.4	515.1
35°	865.9	874.9	873.9	867.9	841.2	825.6	842.2	831.6	828.1	736.8	552.9
37.5°	910.7	920.3	911.7	896.6	865.9	857.8	878.0	876.5	873.9	790.3	592.7
40°	1019.6	1033.7	1011.0	949.0	898.6	891.6	920.3	926.4	923.8	843.2	628.5
42.5°	1133.5	1154.7	1119.4	1033.7	958.1	932.4	966.7	975.2	972.2	888.6	660.7
45°	1202.5	1211.6	1176.3	1109.8	1063.4	981.8	1016.1	1030.2	1027.7	943.0	702.1
47.5°	1259.0	1255.5	1215.1	1170.3	1178.9	1051.3	1072.0	1099.7	1097.7	1003.0	747.4
50°	1271.1	1263.0	1246.9	1218.7	1241.4	1121.9	1131.0	1178.9	1176.8	1069.5	793.3
52.5°	1185.9	1175.3	1219.2	1242.9	1235.3	1173.3	1196.0	1265.5	1264.5	1141.6	837.1
55°	973.2	964.7	1082.6	1205.1	1228.8	1209.6	1268.1	1355.8	1361.3	1218.2	877.0
57.5°	765.6	756.5	872.4	1110.3	1204.6	1242.9	1352.2	1459.1	1466.1	1301.3	914.8
60°	610.3	596.7	685.4	961.1	1159.2	1268.6	1433.4	1572.5	1573.5	1377.4	937.9
62.5°	414.8	399.7	498.0	772.1	1083.1	1272.6	1495.9	1670.3	1674.3	1434.4	942.0
65°	252.0	239.4	305.9	564.0	970.7	1238.3	1496.9	1742.3	1745.9	1460.6	917.8
67.5°	146.2	141.1	174.9	351.3	784.2	1146.1	1433.9	1731.2	1737.8	1449.5	862.8
70°	85.2	84.7	97.3	173.9	553.4	963.1	1293.3	1638.0	1647.6	1391.5	778.7
72.5°	62.5	63.5	68.5	93.2	320.5	693.5	1095.2	1450.5	1465.1	1278.1	658.7
75°	49.4	49.9	54.4	63.5	168.3	392.1	820.5	1164.2	1175.8	1076.0	514.6
77.5°	36.8	37.8	41.3	44.9	78.1	179.9	461.7	717.2	698.0	590.7	248.5
80°	26.7	29.2	30.7	32.3	41.3	69.6	138.6	250.0	248.0	258.0	117.4
82.5°	17.1	19.2	20.7	21.7	24.7	33.3	41.3	55.9	60.5	100.3	46.9
85°	7.6	8.6	9.6	11.6	10.6	11.6	17.1	11.1	9.6	15.1	8.6
87.5°	0.0	0.0	1.5	2.5	2.0	1.0	3.0	2.0	1.5	1.5	1.5
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	321.0	315.5	303.9	292.8	286.3	277.7	270.1	263.1	262.6	260.6	257.0
5°	325.1	314.5	292.8	272.2	256.5	239.9	225.8	214.7	210.7	207.6	203.6
7.5°	329.1	312.5	280.2	250.0	225.3	202.1	185.5	170.4	165.8	161.8	159.3
10°	330.6	309.0	265.6	225.3	193.0	168.3	150.7	139.6	135.6	133.6	132.0
12.5°	335.2	306.9	252.0	202.1	164.8	142.1	129.5	123.0	121.5	120.0	118.4
15°	341.2	306.9	238.4	179.4	142.6	124.5	116.9	112.4	111.4	110.9	109.9
17.5°	347.8	306.9	225.3	160.3	126.5	112.9	107.4	104.8	104.3	103.8	103.3
20°	356.8	307.4	211.2	143.6	114.9	104.3	99.8	96.8	96.3	95.8	95.8
22.5°	365.9	308.4	197.6	131.0	107.4	97.8	92.2	89.2	88.2	88.2	88.2
25°	377.5	311.5	185.0	120.5	100.8	91.7	84.7	82.2	81.6	81.6	81.1
27.5°	391.1	315.0	173.9	112.4	94.2	84.7	77.6	75.1	74.1	74.1	73.6
30°	405.7	318.5	164.8	106.3	87.7	77.6	71.1	68.0	67.0	67.5	67.0
32.5°	421.8	323.6	157.8	102.3	81.6	71.6	65.5	62.0	61.5	61.5	61.0
35°	449.1	337.7	156.7	100.3	76.6	67.0	61.0	57.5	57.0	57.0	56.4
37.5°	478.3	353.8	161.3	99.3	72.6	63.0	57.5	53.9	53.4	53.4	53.4
40°	503.0	365.9	166.3	99.3	70.1	59.5	54.4	51.4	51.4	51.4	51.4
42.5°	519.6	366.9	165.3	99.3	68.0	57.0	52.4	49.4	49.4	49.9	49.4
45°	544.3	372.0	161.3	97.8	66.5	54.9	50.4	47.9	47.4	47.9	47.9
47.5°	573.6	381.0	157.2	91.7	66.0	52.9	48.9	45.9	45.4	45.9	45.4
50°	601.3	389.1	155.2	83.7	65.0	50.9	46.9	43.8	43.3	43.8	43.3
52.5°	624.5	392.6	151.7	78.1	62.5	48.9	44.9	41.8	40.8	41.3	41.3
55°	643.1	391.6	146.7	73.6	58.0	46.9	42.3	39.8	38.3	38.3	37.8
57.5°	660.2	392.1	142.1	69.0	52.9	43.8	40.3	37.3	35.3	34.8	34.3
60°	666.8	389.6	134.1	63.0	47.9	41.3	37.8	34.3	32.3	31.8	31.2
62.5°	657.7	380.5	123.5	52.4	43.3	38.3	35.3	31.8	29.7	29.2	28.7
65°	632.0	363.4	107.4	41.3	39.3	34.8	32.3	29.7	27.2	26.2	25.7
67.5°	588.2	338.7	87.2	33.3	34.8	31.8	30.2	27.2	24.2	23.2	22.7
70°	525.7	305.9	65.5	28.2	30.7	28.2	27.2	24.2	21.7	20.7	20.2
72.5°	438.0	253.0	45.9	24.2	26.7	24.7	23.7	21.7	19.2	17.6	17.6
75°	331.1	181.4	30.2	20.7	22.2	21.2	19.7	18.1	16.6	15.6	15.1
77.5°	142.6	70.6	18.6	15.6	18.1	17.6	15.6	14.6	14.1	13.1	13.1
80°	61.5	28.7	11.6	11.6	13.1	12.6	12.1	11.1	11.1	10.6	10.1
82.5°	22.7	11.6	7.1	8.6	9.6	8.6	8.6	8.6	8.6	8.1	8.1
85°	5.5	3.5	3.5	5.0	5.5	5.0	5.5	5.0	5.0	5.0	4.5
87.5°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	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)