

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: P798662

Luminaire Tested: **ARCH1-20-750-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798662
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: ARCH1-20-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 2523 lumens
Efficiency: N/A
Efficacy: 107.4 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

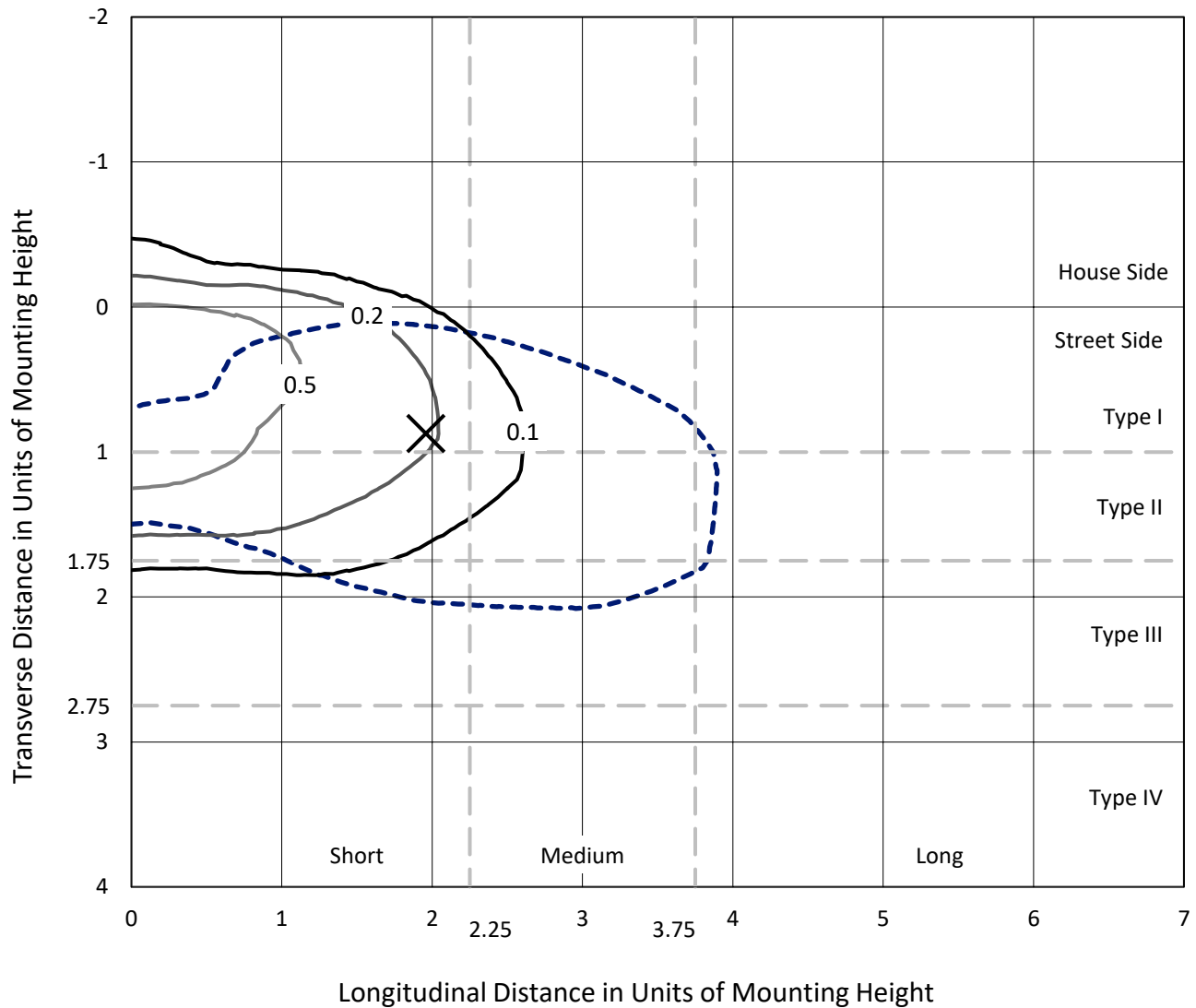


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

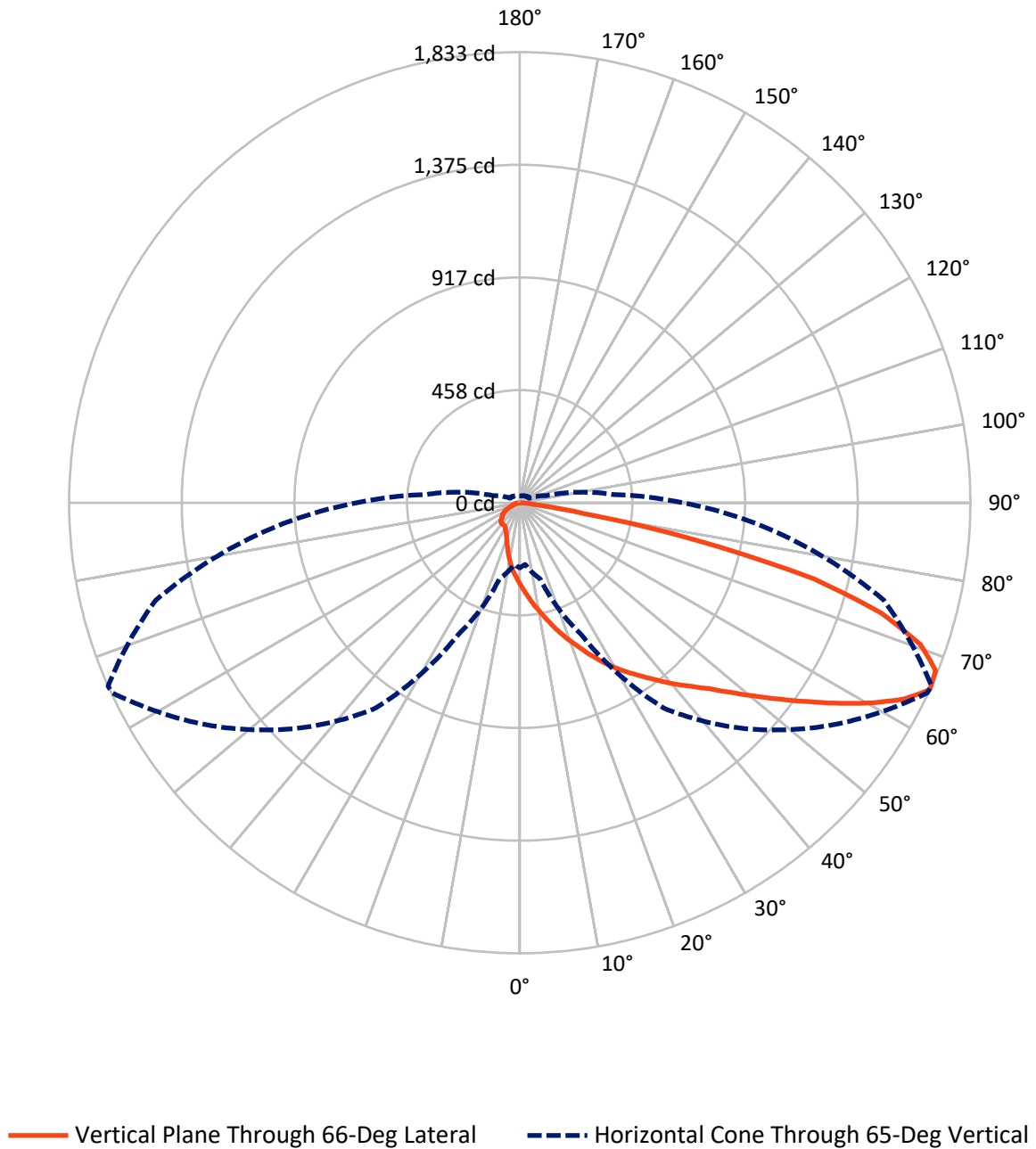


Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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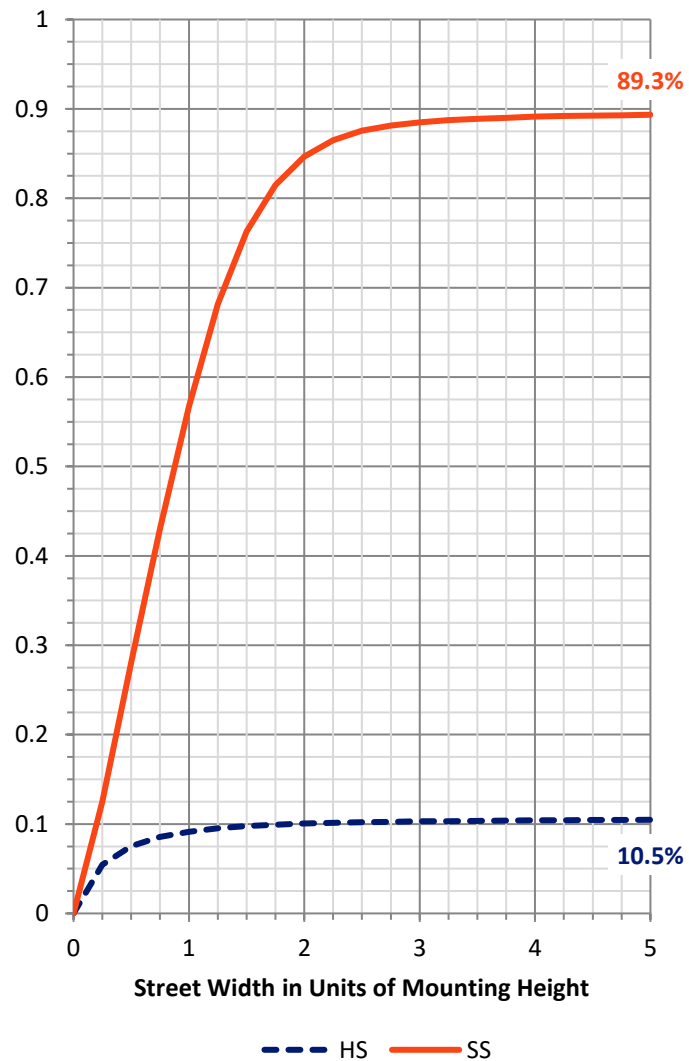
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.9	0.0	266.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2256.1	0.0	2256.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	2523.0	0.0	2523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.3
10°-20°	107.4	4.3
20°-30°	194.3	7.7
30°-40°	303.9	12.0
40°-50°	461.0	18.3
50°-60°	585.7	23.2
60°-70°	547.3	21.7
70°-80°	272.0	10.8
80°-90°	18.3	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°	2523.0	100.0
0°-180°	2523.0	100.0

Coefficient of Utilization



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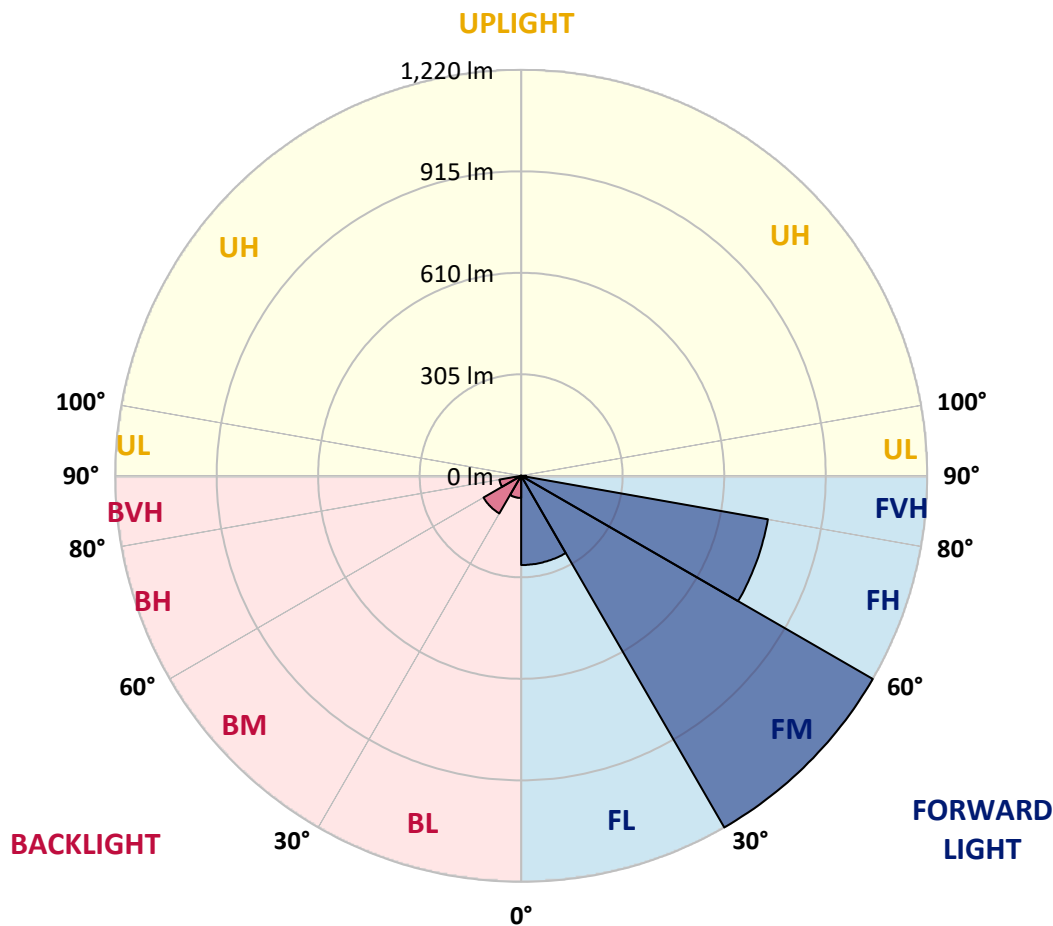
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.1	10.6			
FM	(30°-60°)	1220.1	48.4			
FH	(60°-80°)	752.9	29.8			G1/1800
FVH	(80°-90°)	15.0	0.6			G1/100
BL	(0°-30°)	66.6	2.6	B0/110		
BM	(30°-60°)	130.5	5.2	B0/220		
BH	(60°-80°)	66.5	2.6	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	390.0	393.2	394.8	395.3	383.1	377.8	372.5	360.4	357.7	350.8	341.8
5°	458.8	463.0	462.0	459.8	445.0	428.1	414.3	391.6	387.9	371.5	351.4
7.5°	526.5	530.2	529.2	521.2	504.8	481.0	458.3	424.9	419.6	393.2	360.9
10°	583.1	586.3	585.8	577.9	558.3	529.2	501.7	457.2	450.9	413.3	368.8
12.5°	629.7	633.9	633.4	628.1	610.7	578.9	547.7	494.2	486.3	437.6	379.9
15°	666.2	671.5	671.5	669.4	657.2	630.8	595.3	535.0	525.5	465.7	393.7
17.5°	688.4	692.7	696.4	700.1	691.6	671.5	639.2	575.7	565.7	493.2	408.0
20°	700.1	704.3	707.0	714.9	716.5	706.4	681.0	616.0	605.4	524.4	424.4
22.5°	719.1	722.8	723.4	730.3	733.4	736.1	720.2	655.6	647.2	558.8	442.9
25°	750.9	755.1	753.5	756.7	757.2	760.4	758.8	701.1	692.7	598.0	465.1
27.5°	791.6	796.9	795.9	792.7	787.9	785.3	792.2	747.2	739.2	637.1	487.9
30°	835.6	841.9	840.3	834.0	821.3	810.2	819.7	790.6	783.2	677.3	513.3
32.5°	880.0	887.4	886.9	876.3	854.6	835.6	849.8	831.3	826.0	720.7	540.8
35°	909.1	918.6	917.6	911.2	883.2	866.8	884.2	873.1	869.4	773.6	580.5
37.5°	956.2	966.3	957.3	941.4	909.1	900.6	921.8	920.2	917.6	829.7	622.3
40°	1070.5	1085.3	1061.5	996.4	943.5	936.1	966.3	972.6	970.0	885.3	659.9
42.5°	1190.1	1212.3	1175.3	1085.3	1005.9	979.0	1014.9	1023.9	1020.8	932.9	693.7
45°	1262.6	1272.1	1235.1	1165.2	1116.5	1030.8	1066.8	1081.6	1079.0	990.1	737.1
47.5°	1321.9	1318.2	1275.8	1228.7	1237.7	1103.8	1125.5	1154.6	1152.5	1053.0	784.8
50°	1334.6	1326.1	1309.2	1279.5	1303.3	1177.9	1187.5	1237.7	1235.6	1122.9	832.9
52.5°	1245.1	1234.0	1280.1	1304.9	1297.0	1231.9	1255.7	1328.7	1327.7	1198.6	878.9
55°	1021.8	1012.8	1136.7	1265.2	1290.1	1270.0	1331.4	1423.5	1429.3	1279.0	920.8
57.5°	803.8	794.3	916.0	1165.8	1264.7	1304.9	1419.8	1531.9	1539.4	1366.3	960.4
60°	640.8	626.5	719.7	1009.1	1217.1	1331.9	1505.0	1651.0	1652.1	1446.2	984.8
62.5°	435.5	419.6	522.8	810.7	1137.2	1336.2	1570.6	1753.7	1757.9	1506.0	989.0
65°	264.6	251.4	321.2	592.1	1019.2	1300.2	1571.6	1829.3	1833.0	1533.5	963.6
67.5°	153.5	148.2	183.6	368.8	823.4	1203.3	1505.5	1817.7	1824.6	1521.9	905.9
70°	89.4	88.9	102.1	182.6	581.0	1011.2	1357.8	1719.8	1729.9	1461.0	817.6
72.5°	65.6	66.7	72.0	97.9	336.6	728.1	1149.9	1522.9	1538.3	1342.0	691.6
75°	51.9	52.4	57.2	66.7	176.7	411.7	861.5	1222.4	1234.5	1129.8	540.3
77.5°	38.6	39.7	43.4	47.1	82.0	188.9	484.7	753.0	732.9	620.2	260.9
80°	28.0	30.7	32.3	33.9	43.4	73.0	145.5	262.5	260.4	270.9	123.3
82.5°	18.0	20.1	21.7	22.8	25.9	34.9	43.4	58.7	63.5	105.3	49.2
85°	7.9	9.0	10.1	12.2	11.1	12.2	18.0	11.6	10.1	15.9	9.0
87.5°	0.0	0.0	1.6	2.6	2.1	1.1	3.2	2.1	1.6	1.6	1.6
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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	337.1	331.3	319.1	307.4	300.6	291.6	283.6	276.2	275.7	273.6	269.9
5°	341.3	330.2	307.4	285.8	269.3	251.9	237.1	225.4	221.2	218.0	213.8
7.5°	345.5	328.1	294.2	262.5	236.5	212.2	194.7	178.9	174.1	169.9	167.2
10°	347.1	324.4	278.9	236.5	202.7	176.7	158.2	146.6	142.3	140.2	138.6
12.5°	351.9	322.3	264.6	212.2	173.0	149.2	136.0	129.1	127.5	125.9	124.4
15°	358.2	322.3	250.3	188.4	149.8	130.7	122.8	118.0	116.9	116.4	115.4
17.5°	365.1	322.3	236.5	168.3	132.8	118.5	112.7	110.1	109.5	109.0	108.5
20°	374.7	322.8	221.7	150.8	120.7	109.5	104.8	101.6	101.1	100.5	100.5
22.5°	384.2	323.9	207.4	137.6	112.7	102.7	96.8	93.7	92.6	92.6	92.6
25°	396.3	327.0	194.2	126.5	105.8	96.3	88.9	86.3	85.7	85.7	85.2
27.5°	410.6	330.7	182.6	118.0	99.0	88.9	81.5	78.8	77.8	77.8	77.3
30°	426.0	334.4	173.0	111.7	92.1	81.5	74.6	71.4	70.4	70.9	70.4
32.5°	442.9	339.7	165.6	107.4	85.7	75.1	68.8	65.1	64.6	64.6	64.0
35°	471.5	354.5	164.6	105.3	80.4	70.4	64.0	60.3	59.8	59.8	59.3
37.5°	502.2	371.5	169.3	104.2	76.2	66.1	60.3	56.6	56.1	56.1	56.1
40°	528.1	384.2	174.6	104.2	73.6	62.4	57.2	54.0	54.0	54.0	54.0
42.5°	545.6	385.2	173.6	104.2	71.4	59.8	55.0	51.9	51.9	52.4	51.9
45°	571.5	390.5	169.3	102.7	69.9	57.7	52.9	50.3	49.7	50.3	50.3
47.5°	602.2	400.1	165.1	96.3	69.3	55.6	51.3	48.2	47.6	48.2	47.6
50°	631.3	408.5	163.0	87.8	68.3	53.4	49.2	46.0	45.5	46.0	45.5
52.5°	655.6	412.2	159.3	82.0	65.6	51.3	47.1	43.9	42.9	43.4	43.4
55°	675.2	411.2	154.0	77.3	60.9	49.2	44.5	41.8	40.2	40.2	39.7
57.5°	693.2	411.7	149.2	72.5	55.6	46.0	42.3	39.2	37.0	36.5	36.0
60°	700.1	409.0	140.8	66.1	50.3	43.4	39.7	36.0	33.9	33.3	32.8
62.5°	690.6	399.5	129.6	55.0	45.5	40.2	37.0	33.3	31.2	30.7	30.2
65°	663.6	381.5	112.7	43.4	41.3	36.5	33.9	31.2	28.6	27.5	27.0
67.5°	617.5	355.6	91.5	34.9	36.5	33.3	31.8	28.6	25.4	24.3	23.8
70°	551.9	321.2	68.8	29.6	32.3	29.6	28.6	25.4	22.8	21.7	21.2
72.5°	459.8	265.6	48.2	25.4	28.0	25.9	24.9	22.8	20.1	18.5	18.5
75°	347.7	190.5	31.8	21.7	23.3	22.2	20.6	19.1	17.5	16.4	15.9
77.5°	149.8	74.1	19.6	16.4	19.1	18.5	16.4	15.3	14.8	13.8	13.8
80°	64.6	30.2	12.2	12.2	13.8	13.2	12.7	11.6	11.6	11.1	10.6
82.5°	23.8	12.2	7.4	9.0	10.1	9.0	9.0	9.0	9.0	8.5	8.5
85°	5.8	3.7	3.7	5.3	5.8	5.3	5.8	5.3	5.3	5.3	4.8
87.5°	1.6	1.6	2.1	2.1	2.1	2.1	2.1	1.6	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)