

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: P798582

Luminaire Tested: **ARCH1-20-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798582
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: ARCH1-20-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 2103 lumens
Efficiency: N/A
Efficacy: 89.5 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

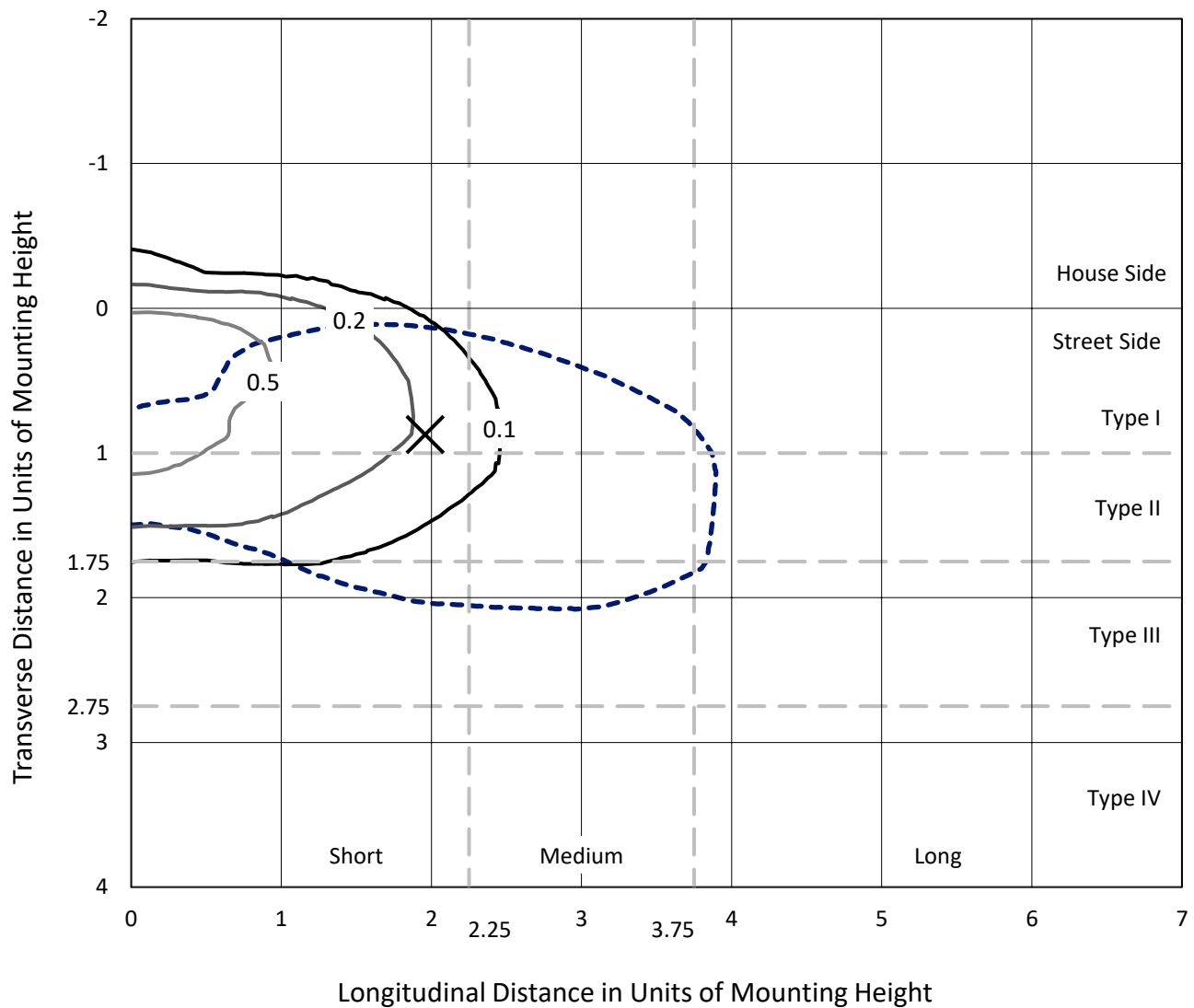


REPORT NUMBER: P798582

CATALOG NUMBER: ARCH1-20-722-U-T3-HSS

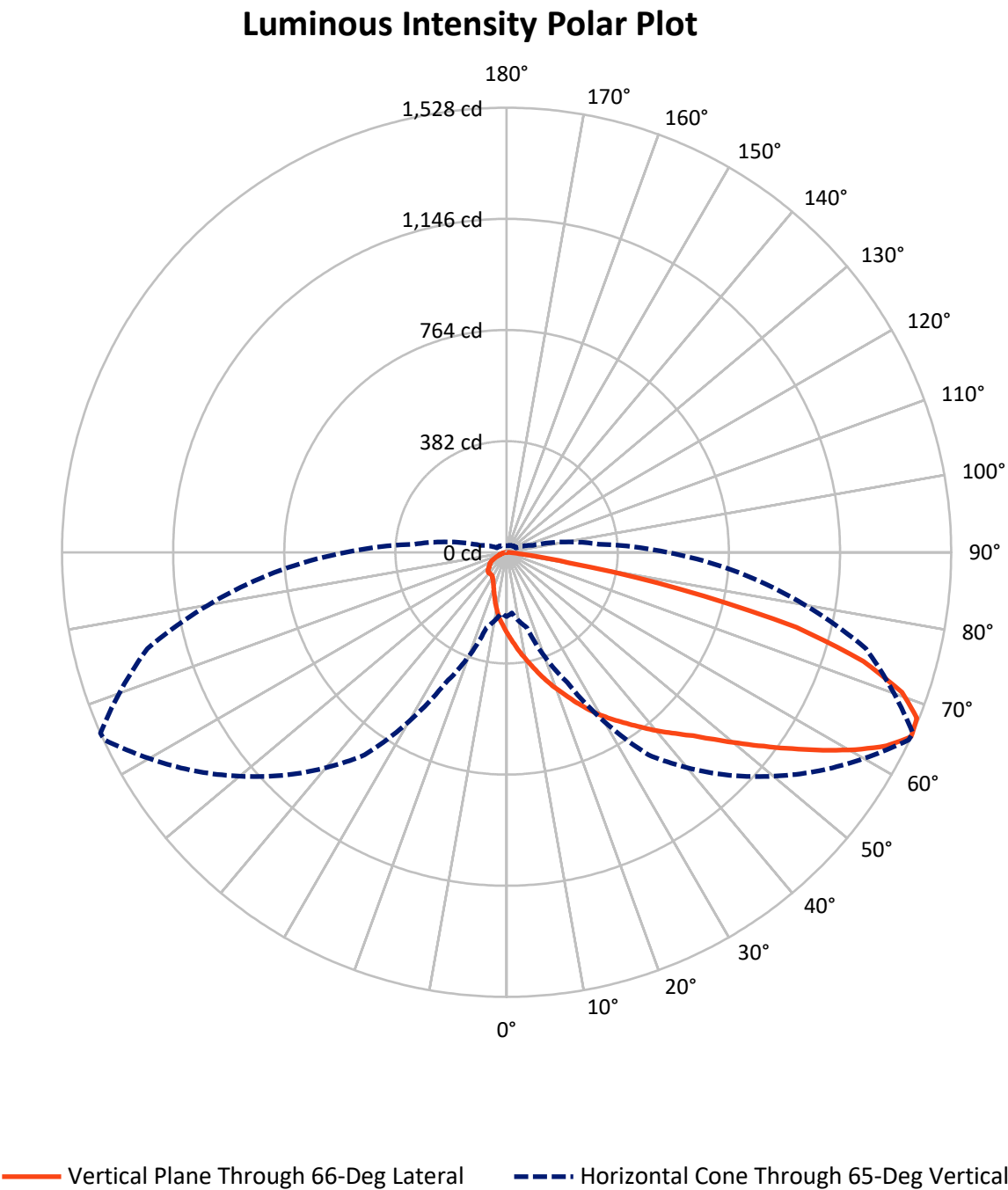
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type III - Short - N/A

REPORT NUMBER: P798582
CATALOG NUMBER: ARCH1-20-722-U-T3-HSS



REPORT NUMBER: P798582

CATALOG NUMBER: ARCH1-20-722-U-T3-HSS

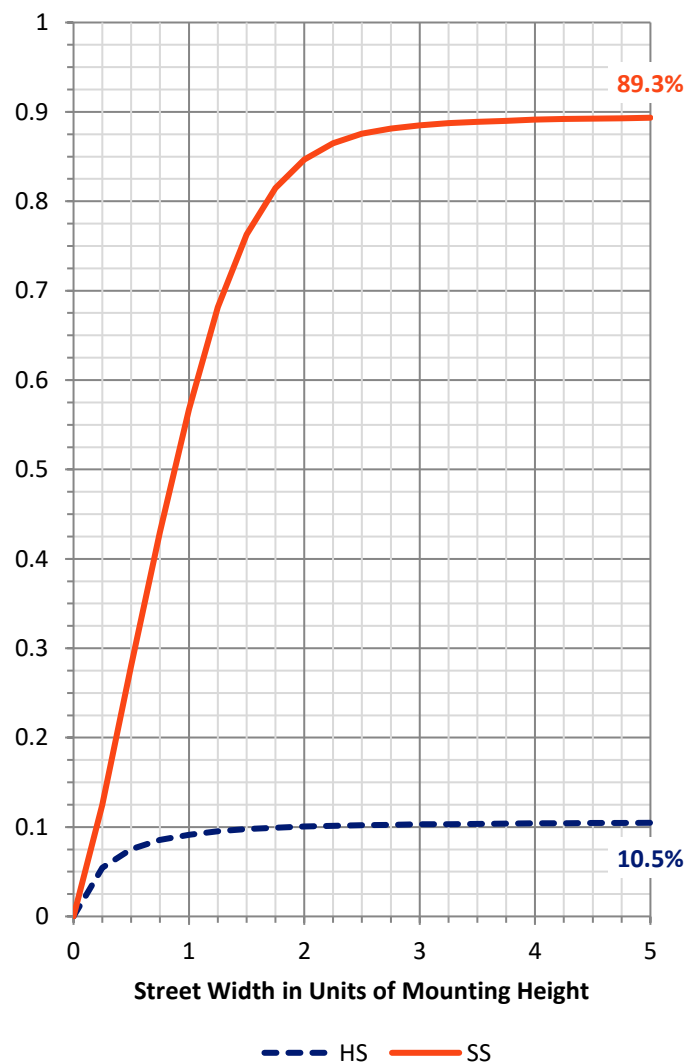
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.4	0.0	222.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	1880.6	0.0	1880.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	2103.0	0.0	2103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.3
10°-20°	89.5	4.3
20°-30°	162.0	7.7
30°-40°	253.3	12.0
40°-50°	384.3	18.3
50°-60°	488.2	23.2
60°-70°	456.2	21.7
70°-80°	226.7	10.8
80°-90°	15.2	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°	2103.0	100.0
0°-180°	2103.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798582

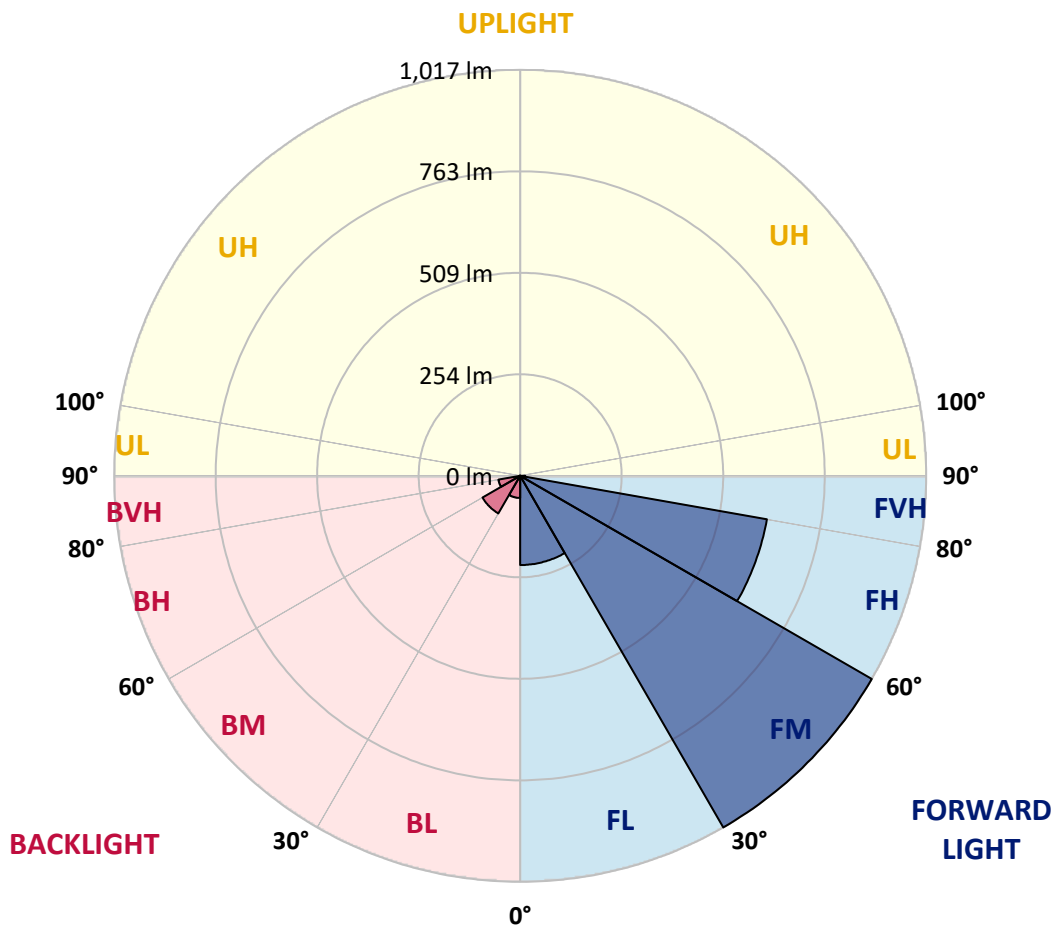
CATALOG NUMBER: ARCH1-20-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.4	10.6			
FM	(30°-60°)	1017.0	48.4			
FH	(60°-80°)	627.5	29.8			G0/660
FVH	(80°-90°)	12.5	0.6			G1/100
BL	(0°-30°)	55.6	2.6	B0/110		
BM	(30°-60°)	108.8	5.2	B0/220		
BH	(60°-80°)	55.4	2.6	B0/110		G0/110
BVH	(80°-90°)	2.7	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



REPORT NUMBER: P798582

CATALOG NUMBER: ARCH1-20-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3
2.5°	325.1	327.7	329.0	329.5	319.3	314.9	310.5	300.4	298.2	292.4	284.9
5°	382.4	385.9	385.1	383.3	370.9	356.8	345.4	326.4	323.3	309.6	292.9
7.5°	438.9	442.0	441.1	434.5	420.8	400.9	382.0	354.2	349.8	327.7	300.8
10°	486.1	488.7	488.3	481.7	465.3	441.1	418.1	381.1	375.8	344.5	307.4
12.5°	524.9	528.4	528.0	523.6	509.0	482.5	456.5	412.0	405.4	364.8	316.7
15°	555.3	559.7	559.7	558.0	547.8	525.8	496.2	445.9	438.0	388.1	328.2
17.5°	573.8	577.4	580.5	583.5	576.5	559.7	532.8	479.9	471.5	411.1	340.1
20°	583.5	587.1	589.3	595.9	597.2	588.8	567.7	513.4	504.6	437.1	353.7
22.5°	599.4	602.5	603.0	608.7	611.3	613.5	600.3	546.5	539.4	465.8	369.2
25°	625.9	629.4	628.1	630.7	631.2	633.8	632.5	584.4	577.4	498.4	387.7
27.5°	659.9	664.3	663.4	660.7	656.8	654.6	660.3	622.8	616.2	531.1	406.7
30°	696.5	701.8	700.4	695.1	684.6	675.3	683.2	659.0	652.8	564.6	427.8
32.5°	733.5	739.7	739.2	730.4	712.3	696.5	708.4	692.9	688.5	600.7	450.8
35°	757.8	765.7	764.8	759.5	736.2	722.5	737.0	727.8	724.7	644.9	483.9
37.5°	797.0	805.4	797.9	784.7	757.8	750.7	768.4	767.0	764.8	691.6	518.7
40°	892.3	904.7	884.8	830.6	786.4	780.3	805.4	810.7	808.5	737.9	550.0
42.5°	992.0	1010.5	979.6	904.7	838.5	816.0	846.0	853.5	850.8	777.6	578.3
45°	1052.4	1060.4	1029.5	971.3	930.7	859.2	889.2	901.6	899.4	825.3	614.4
47.5°	1101.8	1098.7	1063.4	1024.2	1031.7	920.1	938.2	962.4	960.7	877.7	654.1
50°	1112.4	1105.3	1091.2	1066.5	1086.4	981.8	989.8	1031.7	1029.9	936.0	694.3
52.5°	1037.9	1028.6	1067.0	1087.7	1081.1	1026.8	1046.7	1107.5	1106.7	999.0	732.6
55°	851.7	844.2	947.4	1054.6	1075.3	1058.6	1109.8	1186.5	1191.4	1066.1	767.5
57.5°	670.0	662.1	763.5	971.7	1054.2	1087.7	1183.4	1276.9	1283.1	1138.9	800.6
60°	534.1	522.2	599.9	841.1	1014.5	1110.2	1254.4	1376.2	1377.0	1205.5	820.8
62.5°	363.0	349.8	435.8	675.7	947.9	1113.7	1309.1	1461.7	1465.3	1255.3	824.4
65°	220.5	209.5	267.7	493.6	849.5	1083.7	1310.0	1524.8	1527.9	1278.2	803.2
67.5°	127.9	123.5	153.1	307.4	686.3	1003.0	1254.9	1515.1	1520.8	1268.5	755.1
70°	74.5	74.1	85.1	152.2	484.3	842.9	1131.8	1433.5	1441.9	1217.8	681.5
72.5°	54.7	55.6	60.0	81.6	280.5	606.9	958.5	1269.4	1282.2	1118.6	576.5
75°	43.2	43.7	47.6	55.6	147.3	343.2	718.1	1018.9	1029.0	941.7	450.3
77.5°	32.2	33.1	36.2	39.3	68.4	157.5	404.0	627.7	610.9	516.9	217.5
80°	23.4	25.6	26.9	28.2	36.2	60.9	121.3	218.8	217.0	225.8	102.8
82.5°	15.0	16.8	18.1	19.0	21.6	29.1	36.2	49.0	52.9	87.8	41.0
85°	6.6	7.5	8.4	10.1	9.3	10.1	15.0	9.7	8.4	13.2	7.5
87.5°	0.0	0.0	1.3	2.2	1.8	0.9	2.6	1.8	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798582

CATALOG NUMBER: ARCH1-20-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3	278.3
2.5°	281.0	276.1	266.0	256.3	250.5	243.0	236.4	230.2	229.8	228.0	225.0
5°	284.5	275.2	256.3	238.2	224.5	210.0	197.6	187.9	184.4	181.7	178.2
7.5°	288.0	273.5	245.2	218.8	197.2	176.9	162.3	149.1	145.1	141.6	139.4
10°	289.3	270.4	232.4	197.2	168.9	147.3	131.9	122.2	118.7	116.9	115.6
12.5°	293.3	268.6	220.5	176.9	144.2	124.4	113.4	107.6	106.3	105.0	103.7
15°	298.6	268.6	208.6	157.0	124.8	108.9	102.3	98.4	97.5	97.0	96.2
17.5°	304.3	268.6	197.2	140.3	110.7	98.8	93.9	91.7	91.3	90.9	90.4
20°	312.3	269.1	184.8	125.7	100.6	91.3	87.3	84.7	84.2	83.8	83.8
22.5°	320.2	269.9	172.9	114.7	93.9	85.6	80.7	78.1	77.2	77.2	77.2
25°	330.4	272.6	161.9	105.4	88.2	80.3	74.1	71.9	71.5	71.5	71.0
27.5°	342.3	275.7	152.2	98.4	82.5	74.1	67.9	65.7	64.8	64.8	64.4
30°	355.1	278.8	144.2	93.1	76.7	67.9	62.2	59.5	58.7	59.1	58.7
32.5°	369.2	283.2	138.1	89.5	71.5	62.6	57.3	54.3	53.8	53.8	53.4
35°	393.0	295.5	137.2	87.8	67.0	58.7	53.4	50.3	49.8	49.8	49.4
37.5°	418.6	309.6	141.1	86.9	63.5	55.1	50.3	47.2	46.8	46.8	46.8
40°	440.2	320.2	145.6	86.9	61.3	52.0	47.6	45.0	45.0	45.0	45.0
42.5°	454.8	321.1	144.7	86.9	59.5	49.8	45.9	43.2	43.2	43.7	43.2
45°	476.4	325.5	141.1	85.6	58.2	48.1	44.1	41.9	41.5	41.9	41.9
47.5°	501.9	333.5	137.6	80.3	57.8	46.3	42.8	40.1	39.7	40.1	39.7
50°	526.2	340.5	135.9	73.2	56.9	44.5	41.0	38.4	37.9	38.4	37.9
52.5°	546.5	343.6	132.8	68.4	54.7	42.8	39.3	36.6	35.7	36.2	36.2
55°	562.8	342.7	128.4	64.4	50.7	41.0	37.1	34.8	33.5	33.5	33.1
57.5°	577.8	343.2	124.4	60.4	46.3	38.4	35.3	32.6	30.9	30.4	30.0
60°	583.5	341.0	117.3	55.1	41.9	36.2	33.1	30.0	28.2	27.8	27.3
62.5°	575.6	333.0	108.1	45.9	37.9	33.5	30.9	27.8	26.0	25.6	25.1
65°	553.1	318.0	93.9	36.2	34.4	30.4	28.2	26.0	23.8	22.9	22.5
67.5°	514.7	296.4	76.3	29.1	30.4	27.8	26.5	23.8	21.2	20.3	19.8
70°	460.0	267.7	57.3	24.7	26.9	24.7	23.8	21.2	19.0	18.1	17.6
72.5°	383.3	221.4	40.1	21.2	23.4	21.6	20.7	19.0	16.8	15.4	15.4
75°	289.8	158.8	26.5	18.1	19.4	18.5	17.2	15.9	14.6	13.7	13.2
77.5°	124.8	61.8	16.3	13.7	15.9	15.4	13.7	12.8	12.4	11.5	11.5
80°	53.8	25.1	10.1	10.1	11.5	11.0	10.6	9.7	9.7	9.3	8.8
82.5°	19.8	10.1	6.2	7.5	8.4	7.5	7.5	7.5	7.5	7.1	7.1
85°	4.9	3.1	3.1	4.4	4.9	4.4	4.9	4.4	4.4	4.4	4.0
87.5°	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.3	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)