

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: P798642

Luminaire Tested: **ARCH1-20-740-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

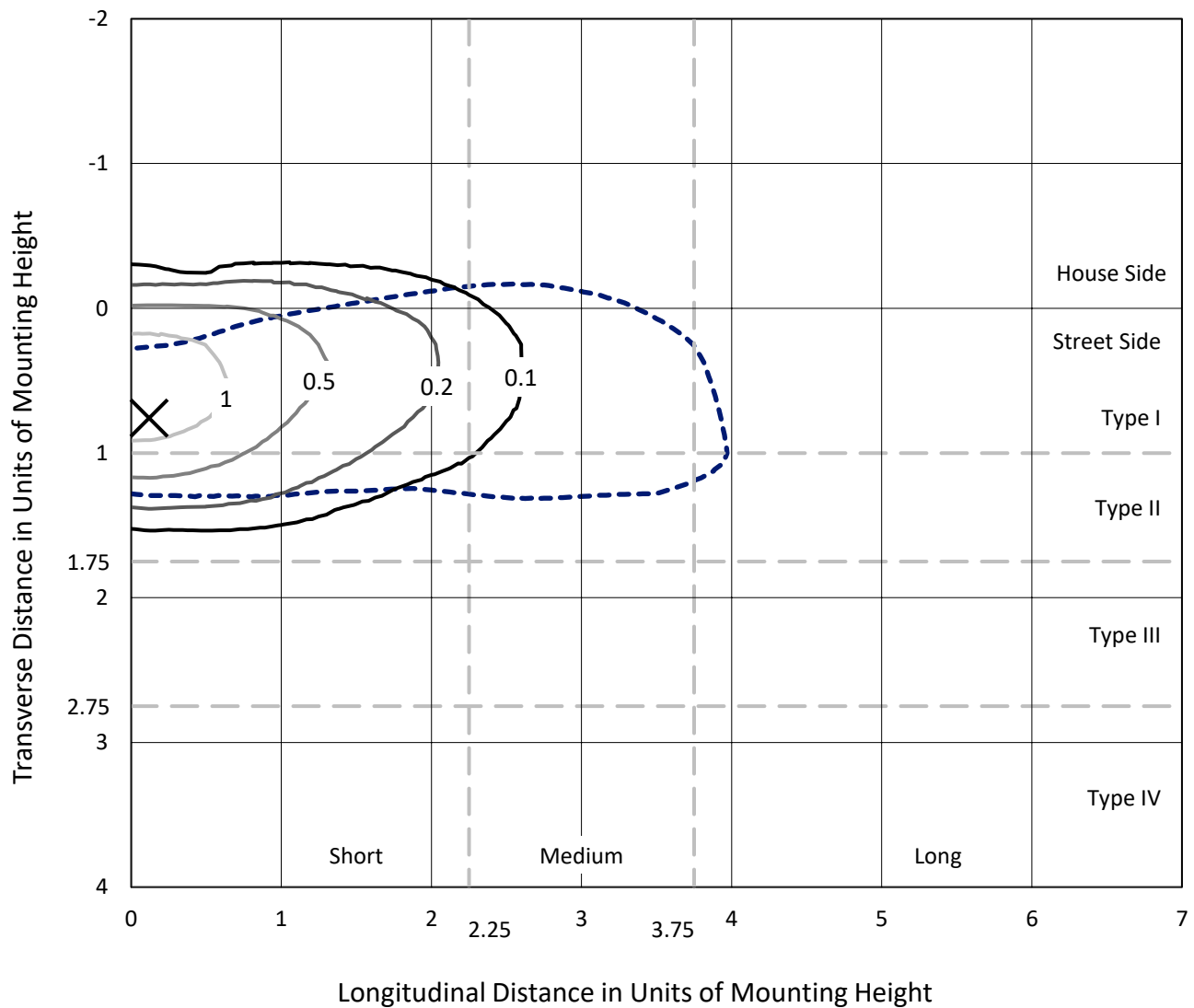


REPORT NUMBER: P798642

CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS

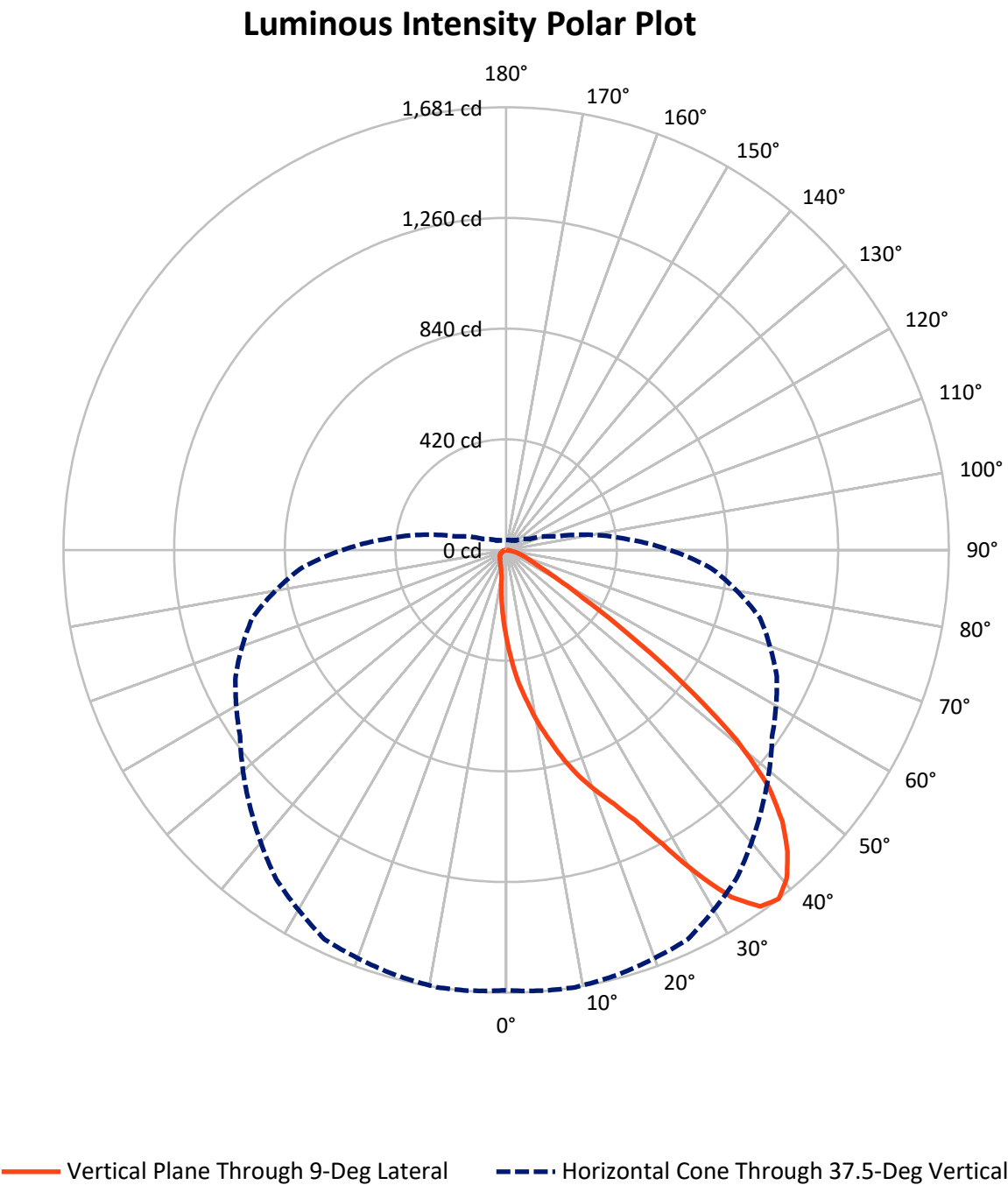
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

REPORT NUMBER: P798642
CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS



REPORT NUMBER: P798642

CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS

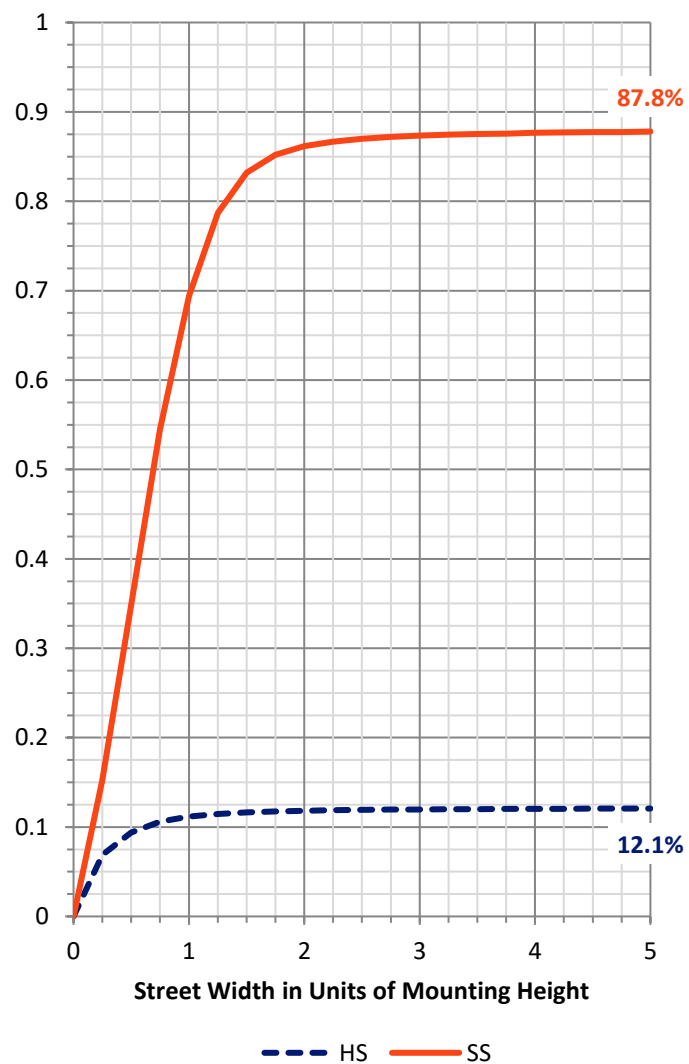
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.5	0.0	313.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2264.5	0.0	2264.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	2578.0	0.0	2578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.3
10°-20°	119.1	4.6
20°-30°	244.6	9.5
30°-40°	432.4	16.8
40°-50°	574.4	22.3
50°-60°	544.8	21.1
60°-70°	415.6	16.1
70°-80°	201.5	7.8
80°-90°	11.3	0.4
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°	2578.0	100.0
0°-180°	2578.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798642

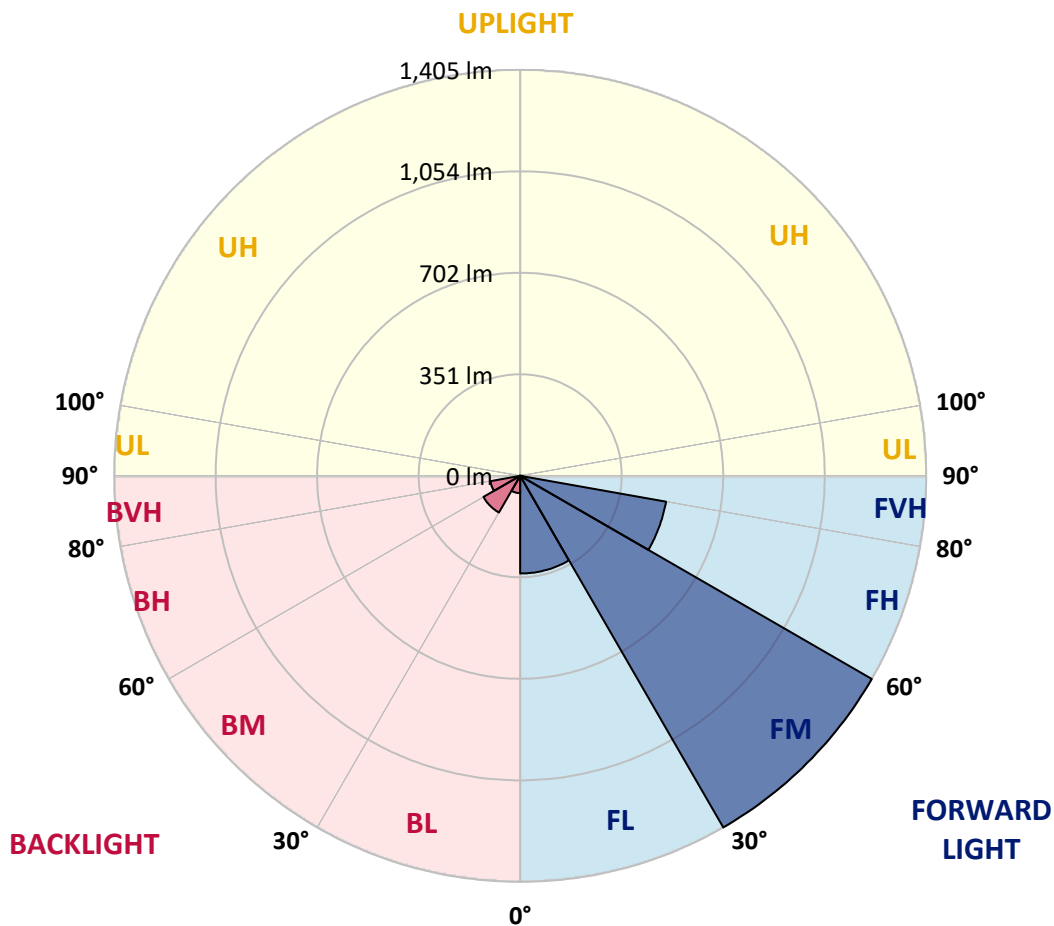
CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.1	13.1			
FM	(30°-60°)	1404.9	54.5			
FH	(60°-80°)	512.5	19.9			G0/660
FVH	(80°-90°)	9.0	0.3			G0/10
BL	(0°-30°)	59.8	2.3	B0/110		
BM	(30°-60°)	146.7	5.7	B0/220		
BH	(60°-80°)	104.6	4.1	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G0

Type II Short



REPORT NUMBER: P798642

CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8
2.5°	422.3	414.9	423.3	422.3	414.9	410.1	395.3	390.5	373.1	360.4	349.2
5°	509.1	501.6	509.1	506.9	496.4	484.7	460.4	444.5	413.3	385.8	360.9
7.5°	581.0	581.0	584.2	584.7	572.0	554.0	523.9	500.1	456.1	413.8	374.1
10°	658.8	659.3	666.2	661.5	644.5	620.2	582.1	551.9	499.0	443.4	386.8
12.5°	741.9	742.4	744.5	742.4	722.3	691.1	645.0	605.4	544.5	477.3	404.3
15°	825.0	825.5	828.1	824.4	802.2	765.7	713.3	664.6	592.7	515.4	425.4
17.5°	902.8	903.8	905.9	901.2	877.9	834.5	781.0	722.3	644.0	556.1	449.3
20°	972.6	973.7	975.2	968.9	945.6	902.2	844.5	783.2	696.4	598.0	475.2
22.5°	1043.0	1044.0	1046.7	1038.2	1012.3	962.5	905.9	842.4	751.9	644.0	505.3
25°	1132.9	1134.0	1136.1	1123.9	1088.5	1030.3	970.5	905.4	812.3	695.8	542.4
27.5°	1264.7	1263.6	1263.6	1241.4	1180.6	1104.9	1035.6	969.4	877.4	751.4	583.1
30°	1427.7	1425.0	1423.4	1393.3	1306.5	1189.0	1102.2	1029.2	939.8	810.1	627.1
32.5°	1573.7	1573.7	1570.6	1538.8	1446.7	1302.3	1173.2	1087.4	1000.1	869.4	672.6
35°	1660.0	1663.7	1662.1	1638.3	1571.1	1424.0	1268.9	1157.3	1063.6	931.3	727.1
37.5°	1671.6	1679.0	1680.6	1666.3	1630.9	1523.5	1375.3	1232.9	1133.5	998.0	780.0
40°	1624.5	1640.4	1640.4	1638.3	1625.6	1570.6	1464.7	1320.8	1205.4	1067.3	833.4
42.5°	1552.0	1568.4	1566.3	1574.3	1571.1	1559.4	1515.0	1402.8	1277.4	1138.8	882.1
45°	1457.3	1474.2	1470.0	1484.3	1490.6	1503.3	1509.7	1460.0	1348.3	1216.5	936.6
47.5°	1305.4	1334.0	1340.4	1365.8	1392.2	1431.9	1462.1	1480.6	1414.5	1300.2	995.9
50°	1081.1	1121.3	1134.0	1187.4	1259.9	1342.0	1390.6	1455.2	1461.0	1385.9	1059.9
52.5°	774.2	820.7	840.3	928.2	1077.4	1220.2	1308.1	1399.1	1479.0	1467.9	1129.2
55°	500.6	540.3	559.3	641.9	840.3	1064.7	1210.7	1326.6	1469.0	1543.0	1208.6
57.5°	308.5	331.3	344.0	414.9	597.4	865.2	1083.2	1259.9	1438.3	1608.1	1291.2
60°	208.0	221.2	227.5	260.9	405.9	646.6	908.0	1190.1	1398.0	1652.0	1366.3
62.5°	138.1	142.3	148.7	169.3	267.8	454.0	697.4	1065.2	1367.9	1654.7	1421.9
65°	106.9	109.0	111.7	120.6	165.1	317.5	490.5	863.1	1322.9	1598.6	1439.3
67.5°	84.1	86.3	89.4	94.2	119.6	215.4	333.9	632.3	1230.8	1510.8	1410.7
70°	66.1	67.7	69.8	74.1	93.1	156.1	220.7	420.2	1045.1	1427.2	1320.8
72.5°	52.4	54.0	56.1	60.3	75.7	114.3	151.3	261.9	805.9	1325.0	1147.8
75°	41.3	42.3	43.9	48.2	60.9	88.9	102.7	156.6	547.7	1138.2	894.3
77.5°	20.6	25.4	29.1	33.3	44.4	61.4	68.3	86.8	231.2	584.2	426.5
80°	12.2	14.8	15.9	18.5	29.1	37.0	37.0	34.9	73.0	224.4	174.1
82.5°	6.9	9.5	10.1	10.6	17.5	21.2	16.9	12.7	14.8	75.1	50.8
85°	2.1	3.2	3.7	4.2	5.8	6.3	5.8	5.3	4.2	7.4	4.8
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1	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

REPORT NUMBER: P798642

CATALOG NUMBER: ARCH1-20-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8
2.5°	342.9	336.0	322.8	310.6	299.0	290.5	282.6	275.2	269.9	265.6	265.1
5°	347.7	333.9	308.5	284.7	263.0	245.0	229.7	217.5	208.5	202.1	201.6
7.5°	354.0	332.8	294.2	258.8	226.5	200.6	178.3	161.9	150.3	145.5	141.8
10°	359.3	331.8	279.9	232.8	190.5	157.7	131.2	114.8	106.4	103.2	101.6
12.5°	368.3	332.8	267.8	209.0	159.3	120.6	100.5	91.5	87.8	85.2	84.7
15°	381.5	337.6	256.1	185.7	127.5	97.4	85.7	79.9	76.2	75.7	75.1
17.5°	394.8	341.8	245.5	161.9	105.8	84.7	76.7	72.0	69.3	68.8	68.8
20°	410.1	347.1	233.9	139.2	90.5	76.2	69.8	66.1	63.0	62.4	62.4
22.5°	428.1	354.5	222.8	119.1	80.4	69.8	64.6	60.3	57.7	57.1	57.1
25°	452.4	365.7	213.8	104.2	73.6	64.6	59.8	56.1	54.0	52.9	52.9
27.5°	479.4	381.0	207.4	95.2	68.8	60.3	55.6	52.4	50.3	49.2	49.2
30°	509.6	397.9	203.2	91.5	66.1	56.6	52.4	49.2	46.6	46.0	46.0
32.5°	542.9	417.5	200.6	92.1	65.6	54.0	49.2	46.0	43.9	42.9	42.9
35°	580.0	439.2	199.0	95.2	66.7	51.9	46.6	43.4	41.3	40.2	40.2
37.5°	621.2	464.6	199.0	98.4	69.3	51.3	43.9	40.7	39.2	38.1	38.1
40°	659.9	491.6	201.1	102.1	72.0	51.3	41.8	39.2	37.0	36.0	36.0
42.5°	690.0	506.9	202.7	105.8	73.6	50.8	39.7	37.0	35.5	34.4	34.4
45°	724.4	523.3	199.5	107.4	73.6	49.7	38.1	35.5	33.9	32.8	32.8
47.5°	762.5	543.4	199.0	108.5	72.0	47.6	36.5	33.9	32.8	31.7	31.7
50°	801.2	565.7	200.0	107.9	69.8	44.4	34.4	32.8	31.2	30.2	30.2
52.5°	845.1	589.0	202.1	106.9	65.1	40.7	32.8	31.2	29.6	28.6	28.0
55°	893.8	614.4	206.4	104.8	58.7	37.0	31.2	29.6	27.5	26.5	25.9
57.5°	949.8	645.6	211.1	100.5	51.9	33.9	29.6	27.5	24.3	22.8	22.2
60°	1003.3	681.0	216.4	90.5	45.0	30.7	28.0	24.9	21.7	20.6	20.1
62.5°	1053.6	716.0	219.1	72.5	38.1	28.0	26.5	22.8	19.6	18.5	18.0
65°	1085.8	754.1	213.3	49.2	31.2	25.9	24.3	21.2	18.0	16.4	16.4
67.5°	1088.0	772.0	193.1	32.3	25.4	23.3	22.2	19.0	15.9	14.8	14.3
70°	1034.5	745.1	147.6	25.4	21.2	20.1	20.1	16.9	13.8	12.7	12.2
72.5°	911.7	659.9	94.2	20.6	18.0	16.9	16.9	14.3	12.2	10.6	10.1
75°	719.7	509.1	50.3	16.9	14.8	14.3	13.2	11.6	10.1	9.0	8.5
77.5°	330.7	224.4	23.3	12.2	11.1	11.1	10.1	8.5	7.9	6.9	6.9
80°	130.7	76.2	11.6	7.9	7.4	7.4	7.4	5.8	5.8	4.8	4.2
82.5°	36.0	15.9	5.8	4.8	4.8	4.8	4.2	3.7	3.7	3.2	3.2
85°	3.7	2.6	2.6	2.6	2.6	2.1	2.1	1.6	1.1	1.1	1.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.1	0.5	0.0	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)