

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: P798744

Luminaire Tested: **ARCH1-30-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143 lumens
Efficiency: N/A
Efficacy: 95.2 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): 33
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

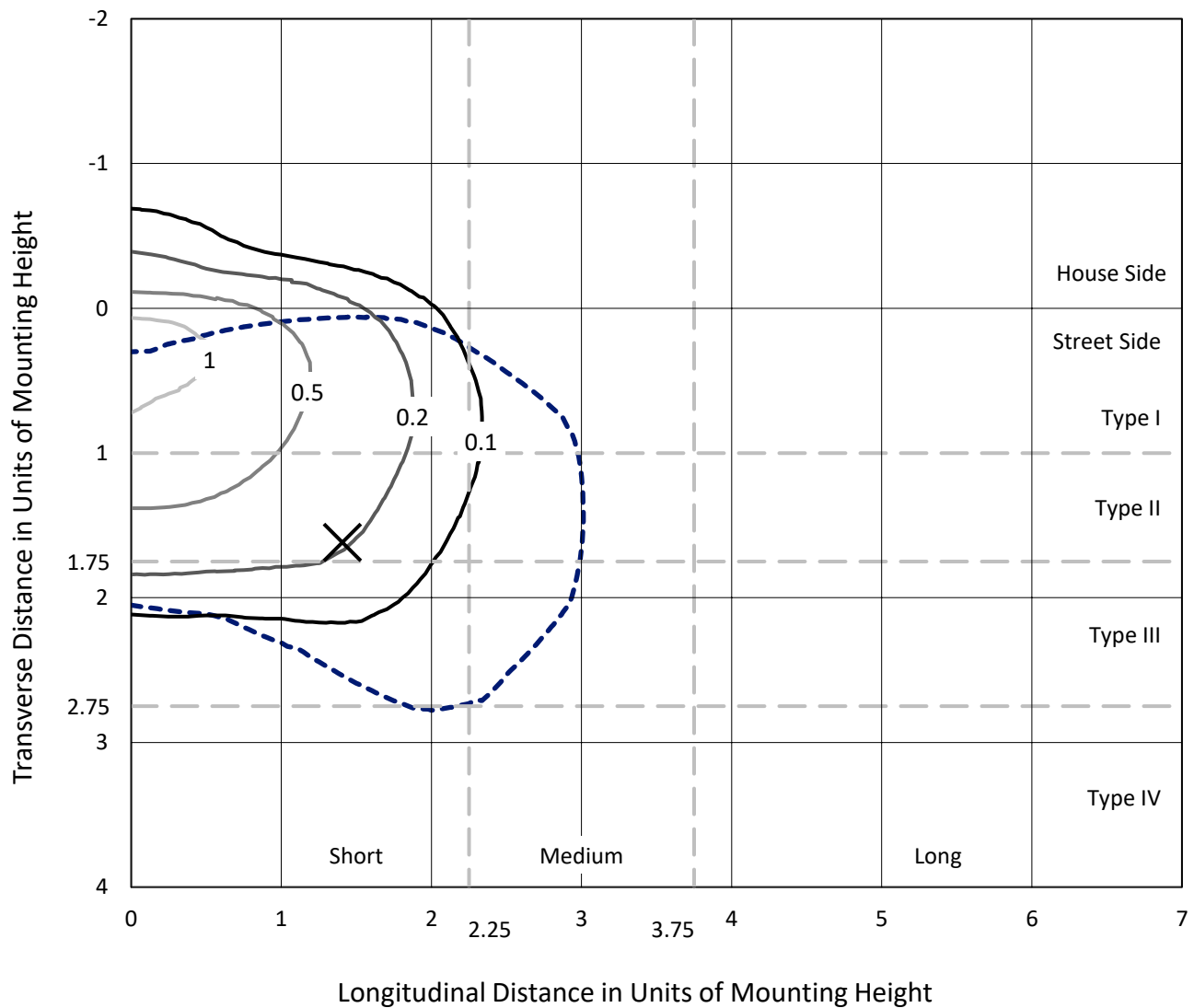


REPORT NUMBER: P798744

CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

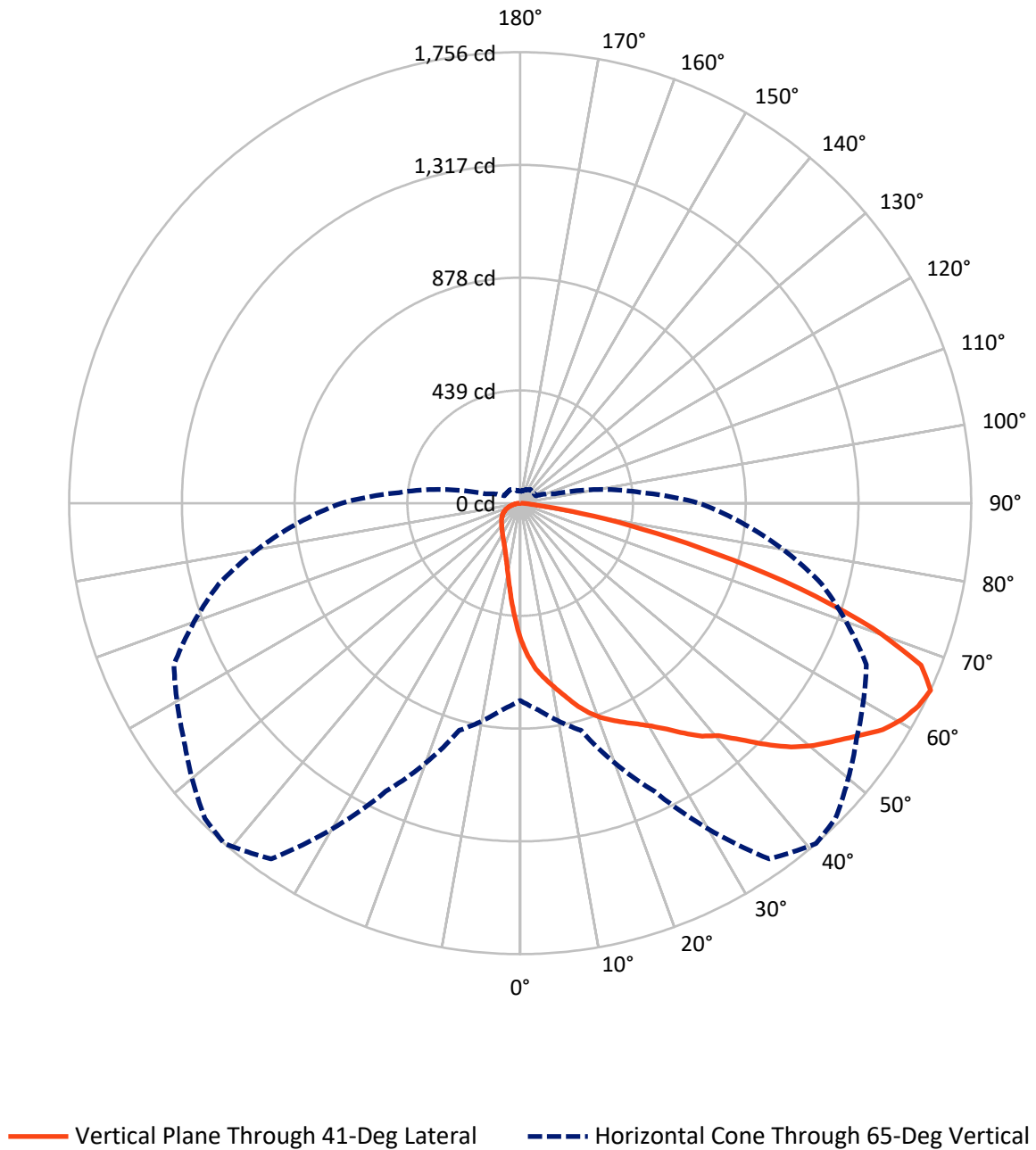


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

REPORT NUMBER: P798744

CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798744

CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

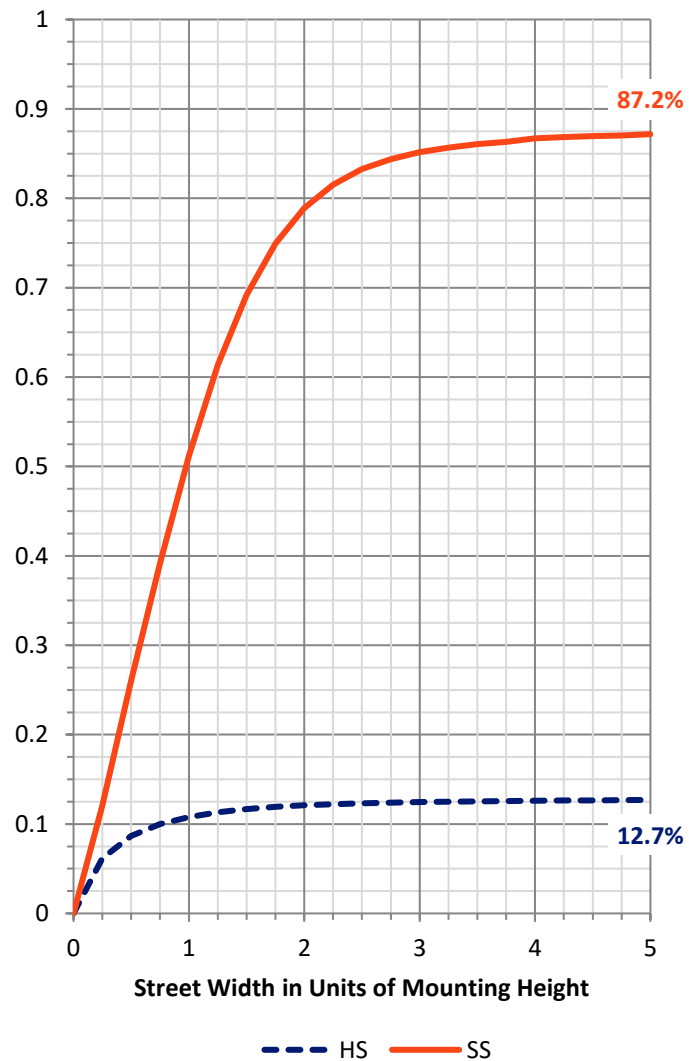
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.5	0.0	403.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2739.5	0.0	2739.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	3143.0	0.0	3143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.6
10°-20°	149.6	4.8
20°-30°	257.4	8.2
30°-40°	390.4	12.4
40°-50°	572.0	18.2
50°-60°	722.3	23.0
60°-70°	677.2	21.5
70°-80°	301.9	9.6
80°-90°	22.4	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°	3143.0	100.0
0°-180°	3143.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798744

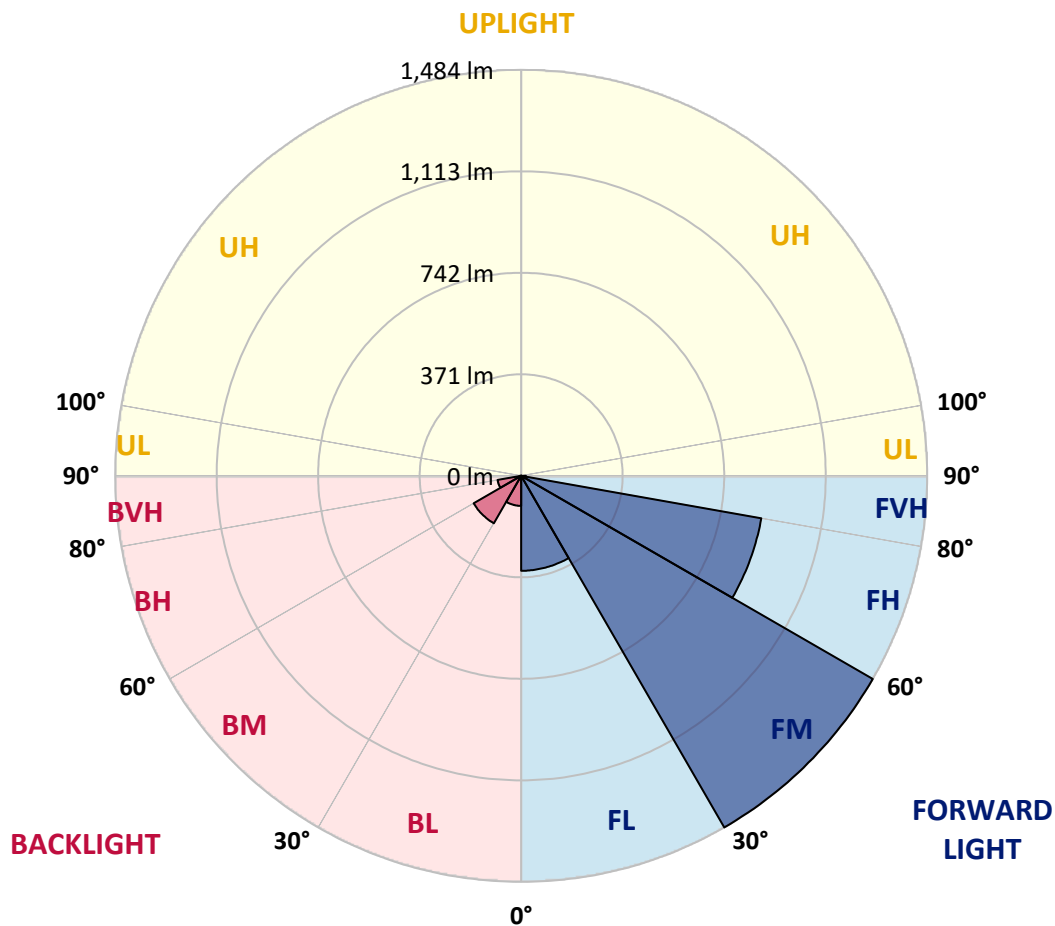
CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	11.0			
FM	(30°-60°)	1484.2	47.2			
FH	(60°-80°)	891.4	28.4			G1/1800
FVH	(80°-90°)	16.7	0.5			G1/100
BL	(0°-30°)	109.8	3.5	B0/110		
BM	(30°-60°)	200.4	6.4	B0/220		
BH	(60°-80°)	87.7	2.8	B0/110		G0/110
BVH	(80°-90°)	5.7	0.2			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: P798744

CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6
2.5°	617.7	615.8	614.4	607.1	607.1	597.2	597.9	588.6	577.3	559.4	540.2
5°	676.1	673.4	670.1	662.8	660.2	650.2	648.9	635.6	616.4	585.3	550.8
7.5°	727.1	724.5	719.8	709.2	701.9	690.0	686.7	669.4	648.2	609.8	561.4
10°	773.5	771.5	765.5	752.3	742.3	727.8	721.8	698.6	672.1	629.7	570.0
12.5°	820.6	817.9	810.0	798.7	786.8	769.5	762.2	732.4	698.6	651.5	582.6
15°	864.3	860.3	854.4	842.4	831.8	815.3	807.3	772.2	731.1	676.1	599.2
17.5°	892.8	889.5	884.2	877.6	868.9	856.4	848.4	813.9	763.6	699.9	616.4
20°	910.0	908.7	906.7	902.7	898.8	890.2	884.2	851.7	798.7	723.1	633.0
22.5°	923.3	922.0	921.3	921.3	922.0	918.7	914.7	886.8	832.5	747.7	648.2
25°	943.8	943.2	941.9	940.5	945.2	945.8	944.5	925.3	874.9	780.1	667.5
27.5°	972.3	970.4	967.7	966.4	971.0	974.3	977.0	963.7	920.0	813.3	689.3
30°	1016.1	1010.1	1003.5	998.9	1002.2	1007.5	1013.4	1005.5	966.4	854.4	711.9
32.5°	1067.8	1060.5	1045.3	1036.6	1045.3	1049.2	1053.9	1049.9	1014.8	898.8	734.4
35°	1130.8	1122.1	1106.2	1093.6	1108.9	1100.3	1098.3	1094.3	1060.5	942.5	759.6
37.5°	1235.5	1222.9	1197.7	1169.9	1169.9	1151.3	1144.0	1132.1	1101.6	981.6	784.1
40°	1356.8	1340.2	1307.7	1266.6	1228.9	1190.4	1185.8	1177.2	1150.0	1026.7	811.9
42.5°	1490.0	1458.2	1413.1	1363.4	1302.4	1258.7	1248.1	1223.5	1197.0	1072.4	839.8
45°	1637.8	1571.5	1505.9	1480.7	1380.0	1340.2	1320.3	1275.9	1246.1	1120.1	868.9
47.5°	1661.7	1610.0	1566.2	1562.2	1452.2	1419.1	1396.5	1332.9	1299.1	1171.2	899.4
50°	1648.4	1617.3	1621.9	1606.0	1505.2	1483.4	1466.1	1393.9	1351.5	1220.2	927.3
52.5°	1592.7	1610.0	1636.5	1607.3	1555.6	1537.7	1529.1	1459.5	1400.5	1265.3	952.5
55°	1526.5	1538.4	1595.4	1631.2	1613.9	1598.0	1590.1	1535.7	1448.9	1303.1	975.7
57.5°	1429.7	1424.4	1487.3	1627.2	1674.9	1665.6	1657.0	1610.6	1494.0	1330.3	990.2
60°	1284.5	1273.3	1352.8	1547.7	1694.8	1709.4	1705.4	1660.3	1528.4	1329.6	984.3
62.5°	1033.3	1061.2	1171.2	1417.8	1703.4	1740.5	1733.2	1664.3	1539.7	1291.2	946.5
65°	768.2	808.0	916.0	1238.8	1691.5	1756.4	1736.6	1599.4	1487.3	1214.9	863.6
67.5°	553.4	588.6	667.5	1019.4	1576.8	1683.5	1660.3	1493.3	1366.7	1106.9	749.0
70°	378.5	403.7	457.3	742.3	1346.2	1455.5	1440.9	1334.9	1176.5	978.3	608.5
72.5°	267.1	277.7	312.2	489.8	1022.7	1142.0	1124.8	1098.3	945.2	813.3	473.2
75°	200.2	206.8	225.4	316.8	690.0	791.4	775.5	790.7	705.9	615.8	344.7
77.5°	75.6	82.2	127.9	202.2	408.3	485.8	469.9	479.2	392.4	310.9	171.7
80°	20.5	21.9	42.4	96.1	185.6	241.9	220.1	188.9	145.8	143.2	90.8
82.5°	8.6	9.9	19.2	51.7	66.3	66.3	55.7	68.9	55.7	66.9	43.7
85°	3.3	4.0	4.6	13.3	8.6	9.3	9.9	13.3	11.3	13.9	9.9
87.5°	0.0	0.0	0.0	0.7	0.7	1.3	0.7	1.3	2.0	2.0	2.0
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: P798744

CATALOG NUMBER: ARCH1-30-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6
2.5°	532.2	524.9	514.3	497.1	479.2	469.3	456.7	454.7	441.4	440.1	434.8
5°	535.6	520.3	493.1	460.0	427.5	402.3	383.8	373.8	354.6	354.6	349.3
7.5°	538.2	514.3	470.6	421.5	377.1	343.3	318.1	307.5	290.3	289.0	285.0
10°	538.9	507.0	446.1	382.4	328.1	293.6	269.1	257.2	241.9	240.6	237.9
12.5°	544.2	503.1	424.2	348.6	293.0	255.8	232.0	222.0	210.1	208.8	206.1
15°	552.8	503.1	405.6	320.1	261.8	227.3	206.8	197.5	188.9	187.6	186.2
17.5°	561.4	501.7	387.1	293.6	236.0	204.8	186.9	179.6	173.0	172.3	171.0
20°	569.4	501.1	368.5	271.1	216.1	186.2	172.3	165.7	160.4	160.4	159.7
22.5°	577.3	499.8	350.6	249.9	198.8	172.3	160.4	153.1	149.1	149.1	148.5
25°	589.2	499.8	334.1	232.0	184.9	161.7	149.8	144.5	141.2	140.5	140.5
27.5°	603.2	503.7	319.5	216.1	173.0	151.1	141.8	136.5	132.6	131.2	131.9
30°	618.4	507.0	306.2	202.2	161.7	143.2	133.2	127.9	123.9	122.6	123.3
32.5°	633.6	511.0	294.3	189.6	150.5	135.9	125.9	120.0	116.0	115.3	115.3
35°	650.2	515.0	282.4	179.0	141.2	128.6	119.3	112.7	110.0	108.7	109.4
37.5°	666.8	521.6	271.1	169.0	134.6	122.0	113.3	106.7	104.7	104.1	104.1
40°	686.7	531.6	266.4	162.4	128.6	116.0	108.7	102.1	100.1	100.1	100.1
42.5°	703.2	539.5	262.5	155.1	123.9	110.7	104.1	98.8	97.4	96.8	97.4
45°	719.8	546.8	257.2	148.5	118.0	105.4	100.1	94.8	93.5	93.5	93.5
47.5°	736.4	550.8	249.9	141.8	112.7	100.7	96.1	91.5	90.1	90.1	90.1
50°	749.6	554.1	239.3	134.6	106.7	96.8	92.1	87.5	86.2	86.2	86.2
52.5°	762.9	554.8	228.0	125.9	100.7	92.1	88.2	83.5	82.2	81.5	81.5
55°	774.8	554.1	214.8	116.0	94.1	86.8	83.5	79.5	76.9	74.2	75.6
57.5°	783.4	553.4	199.5	106.0	87.5	81.5	80.2	74.9	69.6	63.0	64.3
60°	780.1	546.2	182.9	93.5	80.2	76.2	76.2	68.9	59.7	56.3	57.0
62.5°	758.9	525.6	165.7	80.2	72.9	70.9	70.3	62.3	55.0	51.7	52.4
65°	695.3	473.9	140.5	68.3	65.6	65.0	65.0	57.7	51.0	47.1	47.7
67.5°	598.5	397.7	114.7	57.7	58.3	59.7	59.7	53.0	46.4	42.4	43.1
70°	479.9	310.9	91.5	49.7	50.4	52.4	53.7	47.7	41.8	37.8	37.8
72.5°	361.2	236.0	73.6	41.8	45.1	45.1	47.1	42.4	36.5	32.5	33.1
75°	261.8	169.0	58.3	35.1	39.1	38.4	38.4	35.8	31.2	28.5	28.5
77.5°	123.9	88.8	46.4	25.2	30.5	29.8	30.5	28.5	26.5	23.9	24.5
80°	61.0	43.7	29.8	17.9	21.2	21.9	23.9	22.5	21.9	19.9	19.9
82.5°	29.2	17.2	13.9	12.6	14.6	15.2	16.6	16.6	17.2	15.9	15.9
85°	8.0	4.6	6.0	8.0	9.3	9.9	11.3	11.9	11.9	11.3	11.9
87.5°	2.0	2.0	2.7	4.0	4.6	5.3	6.0	6.0	2.7	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)