

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: P799480

Luminaire Tested: **ARCH2-30-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799480
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: ARCH2-30-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3091 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 34.4
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

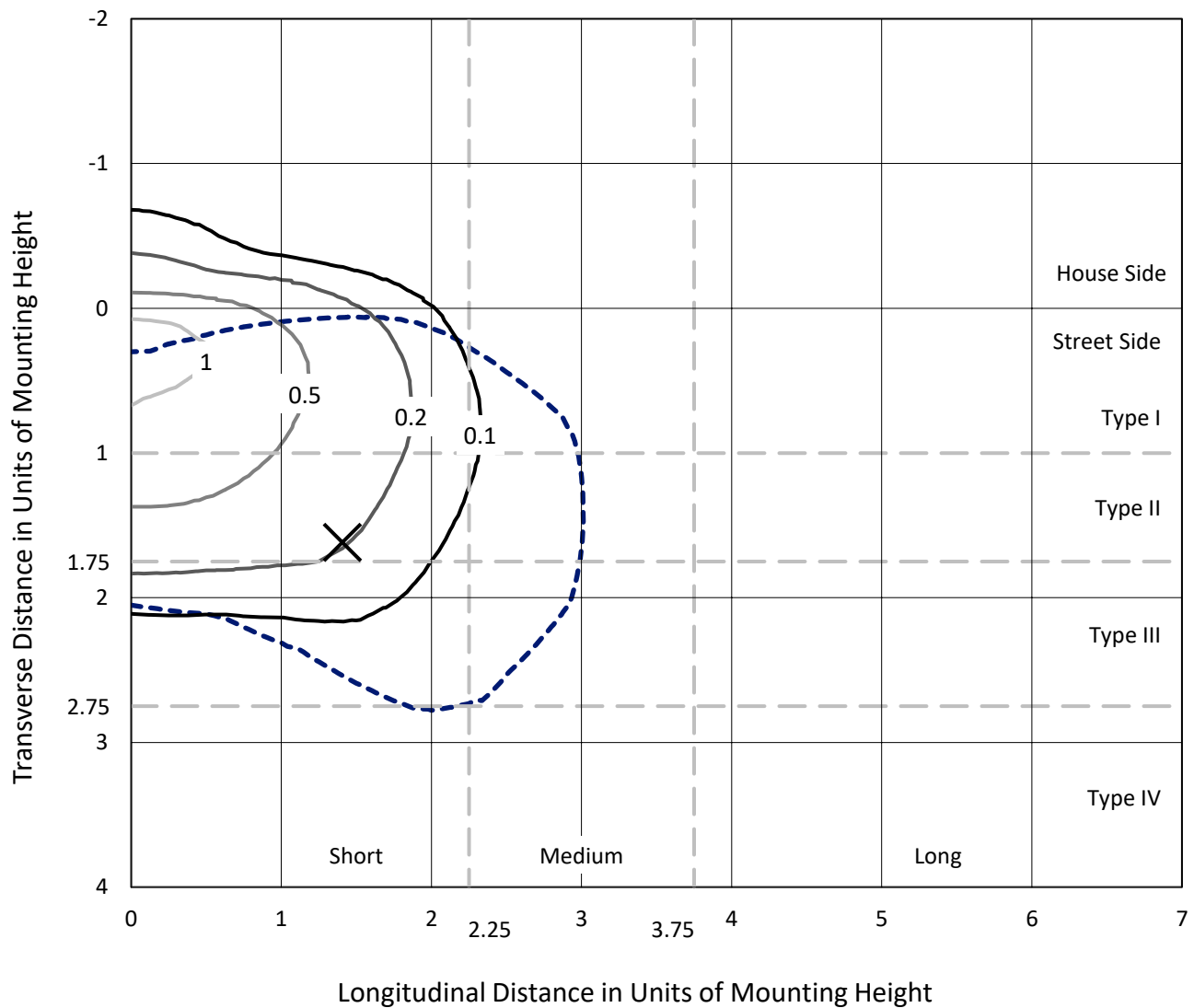


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Iso-Footcandle Lines of Horizontal Illumination

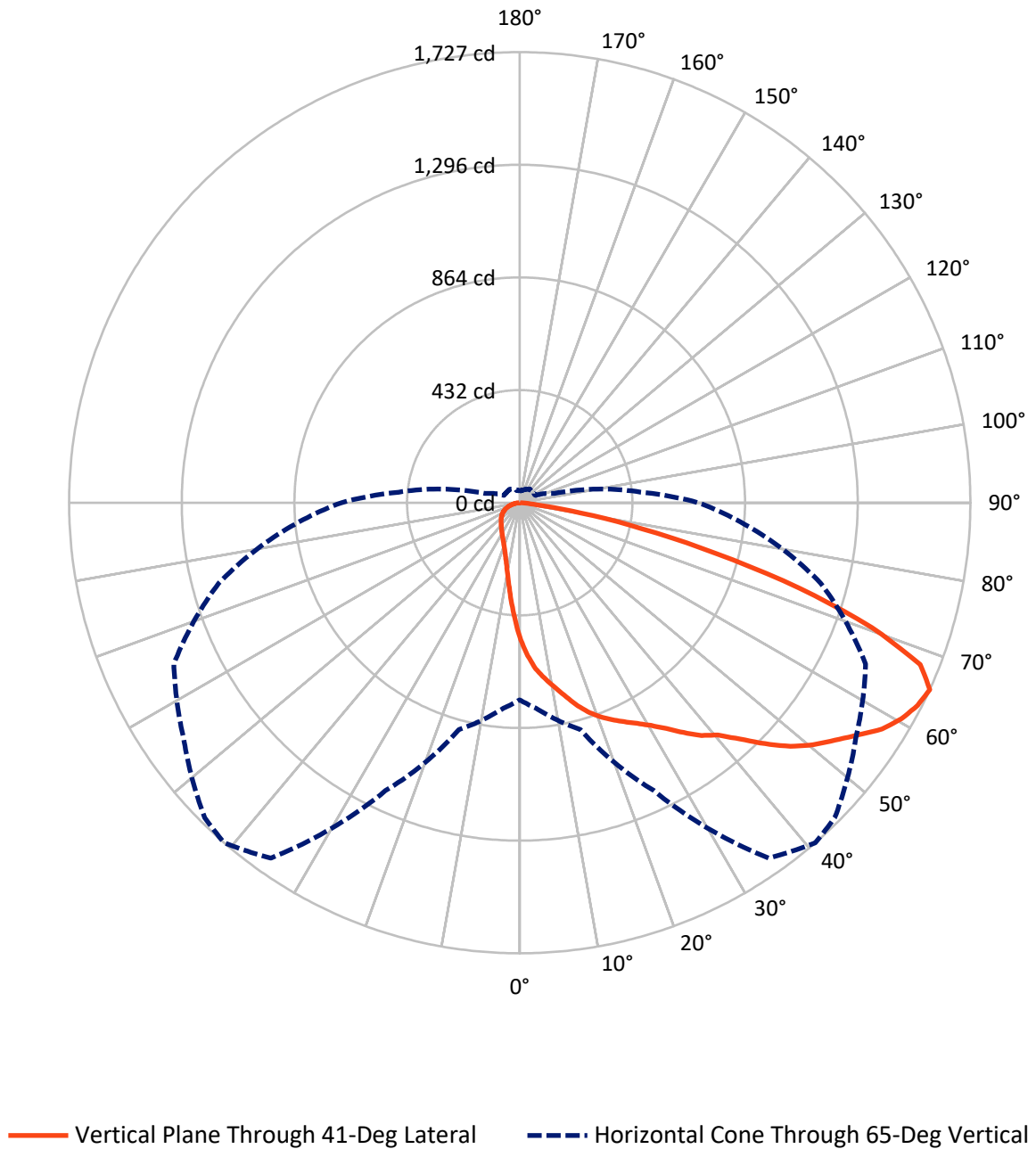
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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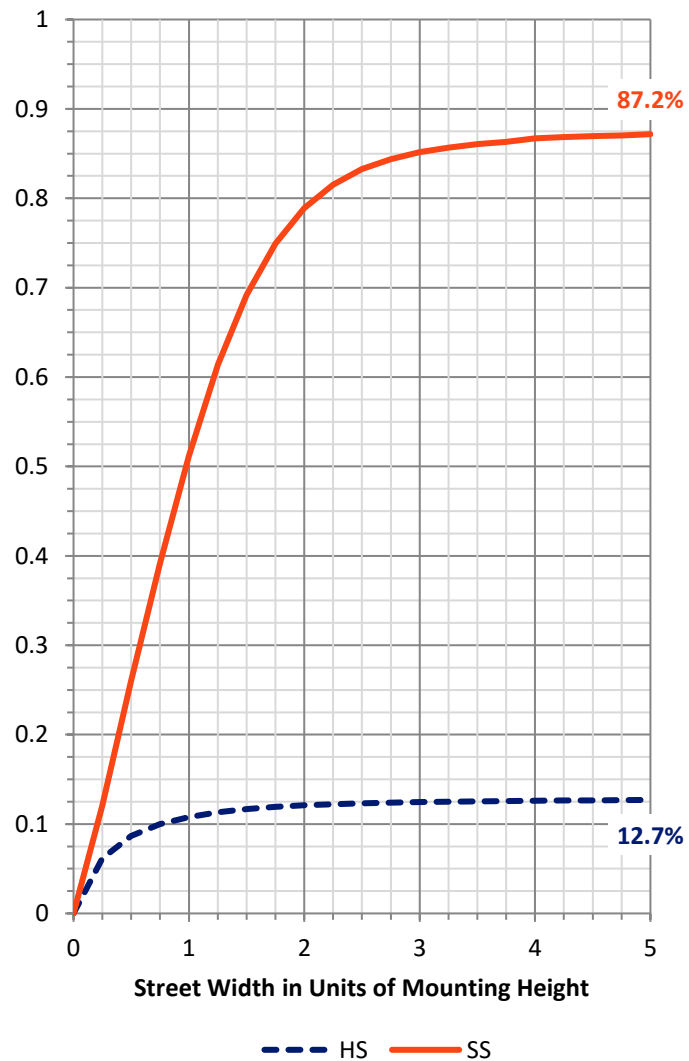
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.8	0.0	396.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2694.2	0.0	2694.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	3091.0	0.0	3091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.6
10°-20°	147.2	4.8
20°-30°	253.2	8.2
30°-40°	383.9	12.4
40°-50°	562.5	18.2
50°-60°	710.3	23.0
60°-70°	666.0	21.5
70°-80°	296.9	9.6
80°-90°	22.0	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°	3091.0	100.0
0°-180°	3091.0	100.0

Coefficient of Utilization



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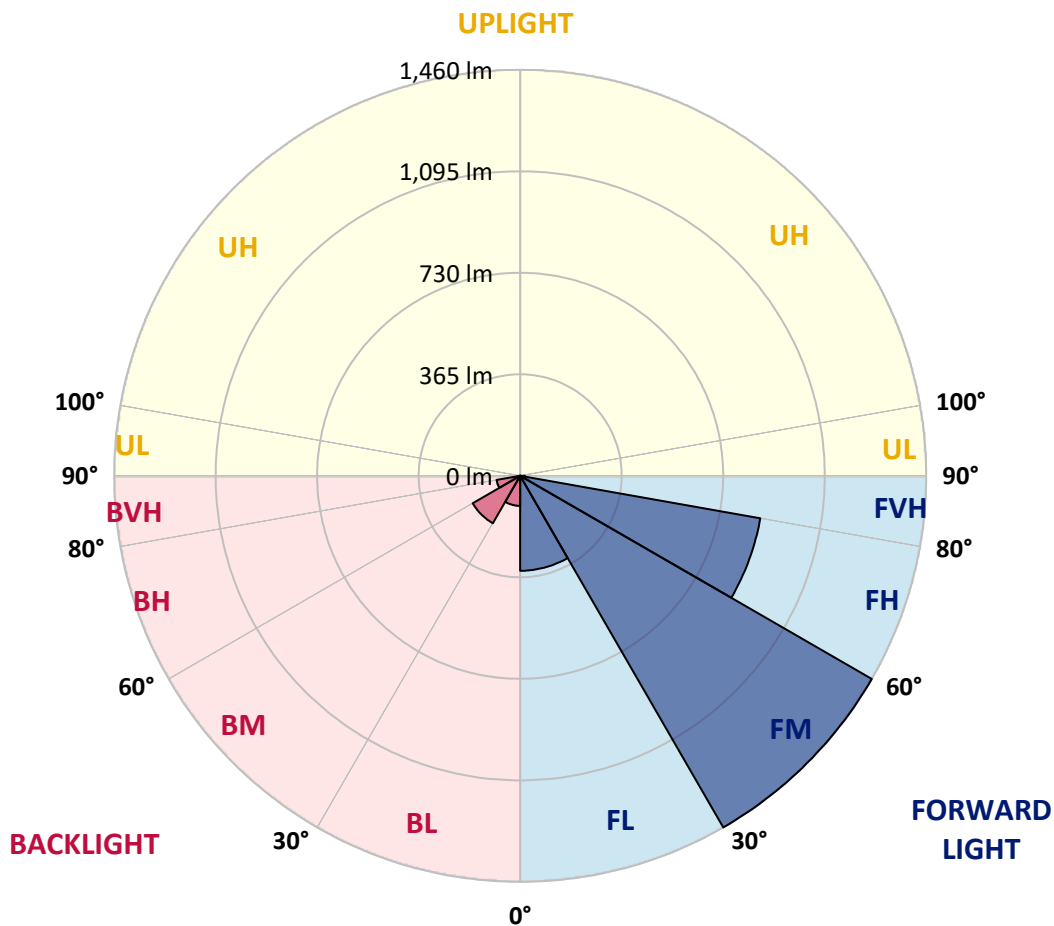
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.4	11.0			
FM	(30°-60°)	1459.7	47.2			
FH	(60°-80°)	876.7	28.4			G1/1800
FVH	(80°-90°)	16.4	0.5			G1/100
BL	(0°-30°)	108.0	3.5	B0/110		
BM	(30°-60°)	197.0	6.4	B0/220		
BH	(60°-80°)	86.2	2.8	B0/110		G0/110
BVH	(80°-90°)	5.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	607.5	605.6	604.3	597.1	597.1	587.3	588.0	578.8	567.8	550.2	531.3
5°	664.9	662.3	659.0	651.8	649.2	639.5	638.2	625.1	606.2	575.6	541.7
7.5°	715.1	712.5	707.9	697.5	690.3	678.6	675.3	658.4	637.5	599.7	552.1
10°	760.7	758.7	752.9	739.8	730.1	715.7	709.9	687.0	661.0	619.3	560.6
12.5°	807.0	804.4	796.6	785.5	773.7	756.8	749.6	720.3	687.0	640.8	573.0
15°	850.0	846.1	840.2	828.5	818.1	801.8	793.9	759.4	719.0	664.9	589.3
17.5°	878.0	874.8	869.6	863.0	854.6	842.2	834.4	800.5	750.9	688.3	606.2
20°	895.0	893.7	891.7	887.8	883.9	875.4	869.6	837.6	785.5	711.2	622.5
22.5°	908.0	906.7	906.1	906.1	906.7	903.5	899.5	872.2	818.7	735.3	637.5
25°	928.2	927.6	926.3	925.0	929.5	930.2	928.9	910.0	860.4	767.2	656.4
27.5°	956.3	954.3	951.7	950.4	955.0	958.2	960.8	947.8	904.8	799.8	677.9
30°	999.3	993.4	986.9	982.3	985.6	990.8	996.7	988.8	950.4	840.2	700.1
32.5°	1050.1	1043.0	1028.0	1019.5	1028.0	1031.9	1036.4	1032.5	998.0	883.9	722.2
35°	1112.0	1103.6	1087.9	1075.5	1090.5	1082.1	1080.1	1076.2	1043.0	926.9	747.0
37.5°	1215.0	1202.7	1177.9	1150.5	1150.5	1132.3	1125.1	1113.4	1083.4	965.4	771.1
40°	1334.3	1318.0	1286.1	1245.7	1208.5	1170.7	1166.1	1157.7	1130.9	1009.7	798.5
42.5°	1465.3	1434.1	1389.7	1340.8	1280.9	1237.9	1227.4	1203.3	1177.2	1054.7	825.9
45°	1610.7	1545.5	1481.0	1456.2	1357.1	1318.0	1298.5	1254.8	1225.5	1101.6	854.6
47.5°	1634.2	1583.3	1540.3	1536.4	1428.2	1395.6	1373.4	1310.9	1277.6	1151.8	884.6
50°	1621.1	1590.5	1595.1	1579.4	1480.3	1458.8	1441.9	1370.8	1329.1	1200.0	911.9
52.5°	1566.4	1583.3	1609.4	1580.7	1529.9	1512.3	1503.8	1435.4	1377.3	1244.4	936.7
55°	1501.2	1512.9	1569.0	1604.2	1587.2	1571.6	1563.8	1510.3	1424.9	1281.5	959.5
57.5°	1406.0	1400.8	1462.7	1600.3	1647.2	1638.1	1629.6	1584.0	1469.3	1308.3	973.9
60°	1263.3	1252.2	1330.4	1522.1	1666.8	1681.1	1677.2	1632.9	1503.2	1307.6	968.0
62.5°	1016.2	1043.6	1151.8	1394.3	1675.2	1711.7	1704.6	1636.8	1514.2	1269.8	930.8
65°	755.5	794.6	900.8	1218.3	1663.5	1727.4	1707.8	1572.9	1462.7	1194.8	849.4
67.5°	544.3	578.8	656.4	1002.5	1550.7	1655.7	1632.9	1468.6	1344.1	1088.6	736.6
70°	372.2	397.0	449.8	730.1	1323.9	1431.5	1417.1	1312.8	1157.0	962.1	598.4
72.5°	262.7	273.1	307.0	481.7	1005.8	1123.1	1106.2	1080.1	929.5	799.8	465.4
75°	196.9	203.4	221.6	311.6	678.6	778.3	762.7	777.7	694.2	605.6	339.0
77.5°	74.3	80.8	125.8	198.8	401.5	477.8	462.2	471.3	385.9	305.7	168.8
80°	20.2	21.5	41.7	94.5	182.5	237.9	216.4	185.8	143.4	140.8	89.3
82.5°	8.5	9.8	18.9	50.8	65.2	65.2	54.8	67.8	54.8	65.8	43.0
85°	3.3	3.9	4.6	13.0	8.5	9.1	9.8	13.0	11.1	13.7	9.8
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	523.4	516.3	505.8	488.9	471.3	461.5	449.1	447.2	434.1	432.8	427.6
5°	526.7	511.7	485.0	452.4	420.4	395.7	377.4	367.6	348.7	348.7	343.5
7.5°	529.3	505.8	462.8	414.6	370.9	337.7	312.9	302.5	285.5	284.2	280.3
10°	529.9	498.7	438.7	376.1	322.7	288.8	264.6	252.9	237.9	236.6	234.0
12.5°	535.2	494.7	417.2	342.9	288.1	251.6	228.1	218.4	206.6	205.3	202.7
15°	543.6	494.7	398.9	314.8	257.5	223.6	203.4	194.2	185.8	184.5	183.2
17.5°	552.1	493.4	380.7	288.8	232.1	201.4	183.8	176.6	170.1	169.5	168.2
20°	559.9	492.8	362.4	266.6	212.5	183.2	169.5	163.0	157.7	157.7	157.1
22.5°	567.8	491.5	344.8	245.7	195.6	169.5	157.7	150.6	146.7	146.7	146.0
25°	579.5	491.5	328.5	228.1	181.9	159.1	147.3	142.1	138.8	138.2	138.2
27.5°	593.2	495.4	314.2	212.5	170.1	148.6	139.5	134.3	130.4	129.1	129.7
30°	608.2	498.7	301.2	198.8	159.1	140.8	131.0	125.8	121.9	120.6	121.2
32.5°	623.2	502.6	289.4	186.4	148.0	133.6	123.9	118.0	114.1	113.4	113.4
35°	639.5	506.5	277.7	176.0	138.8	126.5	117.3	110.8	108.2	106.9	107.6
37.5°	655.8	513.0	266.6	166.2	132.3	119.9	111.5	104.9	103.0	102.3	102.3
40°	675.3	522.8	262.0	159.7	126.5	114.1	106.9	100.4	98.4	98.4	98.4
42.5°	691.6	530.6	258.1	152.5	121.9	108.9	102.3	97.1	95.8	95.2	95.8
45°	707.9	537.8	252.9	146.0	116.0	103.6	98.4	93.2	91.9	91.9	91.9
47.5°	724.2	541.7	245.7	139.5	110.8	99.1	94.5	90.0	88.7	88.7	88.7
50°	737.2	544.9	235.3	132.3	104.9	95.2	90.6	86.0	84.7	84.7	84.7
52.5°	750.3	545.6	224.2	123.9	99.1	90.6	86.7	82.1	80.8	80.2	80.2
55°	762.0	544.9	211.2	114.1	92.6	85.4	82.1	78.2	75.6	73.0	74.3
57.5°	770.5	544.3	196.2	104.3	86.0	80.2	78.9	73.7	68.4	61.9	63.2
60°	767.2	537.1	179.9	91.9	78.9	75.0	75.0	67.8	58.7	55.4	56.1
62.5°	746.4	516.9	163.0	78.9	71.7	69.7	69.1	61.3	54.1	50.8	51.5
65°	683.8	466.1	138.2	67.1	64.5	63.9	63.9	56.7	50.2	46.3	46.9
67.5°	588.6	391.1	112.8	56.7	57.4	58.7	58.7	52.1	45.6	41.7	42.4
70°	471.9	305.7	90.0	48.9	49.5	51.5	52.8	46.9	41.1	37.2	37.2
72.5°	355.3	232.1	72.4	41.1	44.3	44.3	46.3	41.7	35.9	31.9	32.6
75°	257.5	166.2	57.4	34.5	38.5	37.8	37.8	35.2	30.6	28.0	28.0
77.5°	121.9	87.3	45.6	24.8	30.0	29.3	30.0	28.0	26.1	23.5	24.1
80°	60.0	43.0	29.3	17.6	20.9	21.5	23.5	22.2	21.5	19.6	19.6
82.5°	28.7	16.9	13.7	12.4	14.3	15.0	16.3	16.3	16.9	15.6	15.6
85°	7.8	4.6	5.9	7.8	9.1	9.8	11.1	11.7	11.7	11.1	11.7
87.5°	2.0	2.0	2.6	3.9	4.6	5.2	5.9	5.9	2.6	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)