

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: P798713

Luminaire Tested: **ARCH1-30-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3810 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

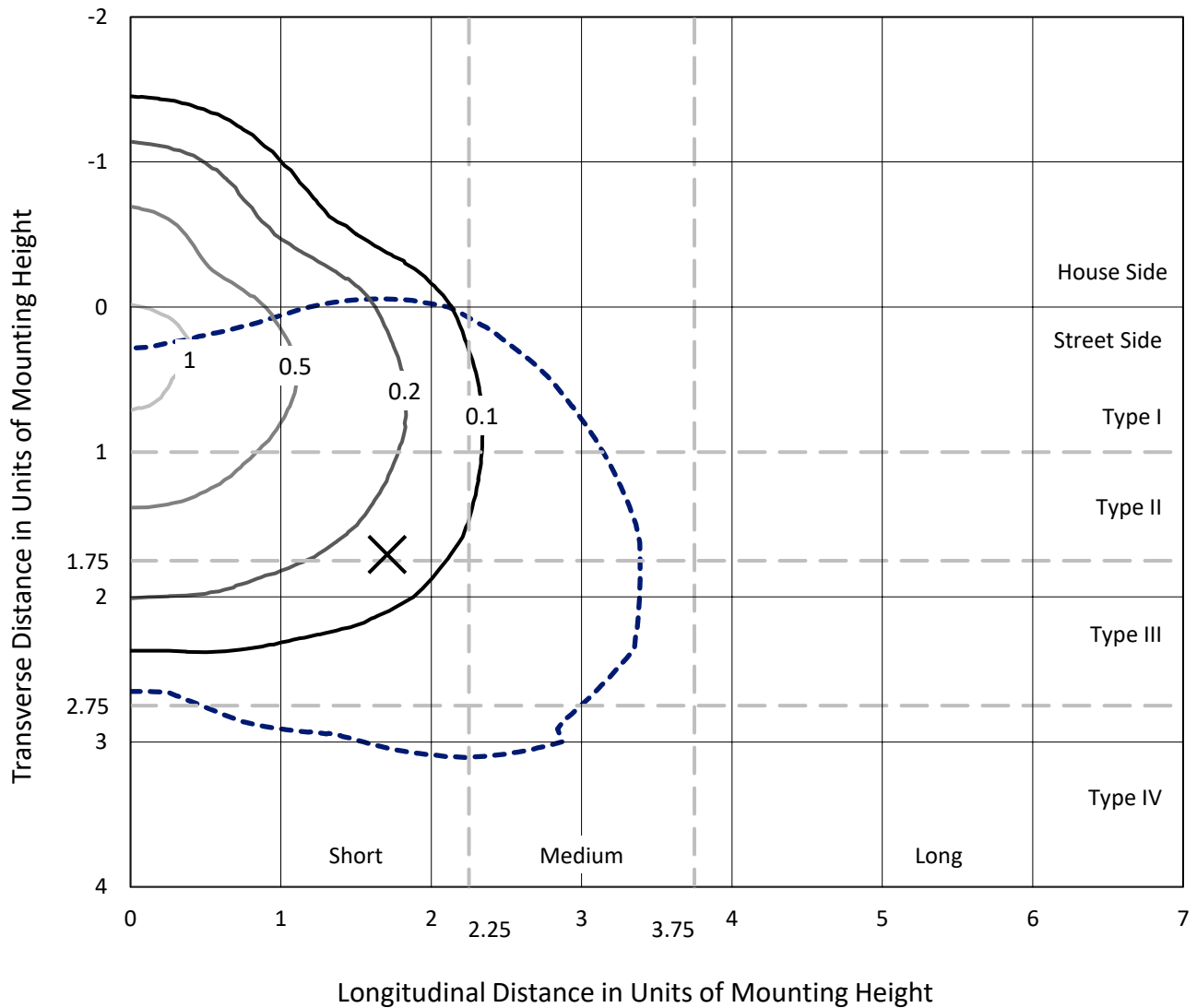
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

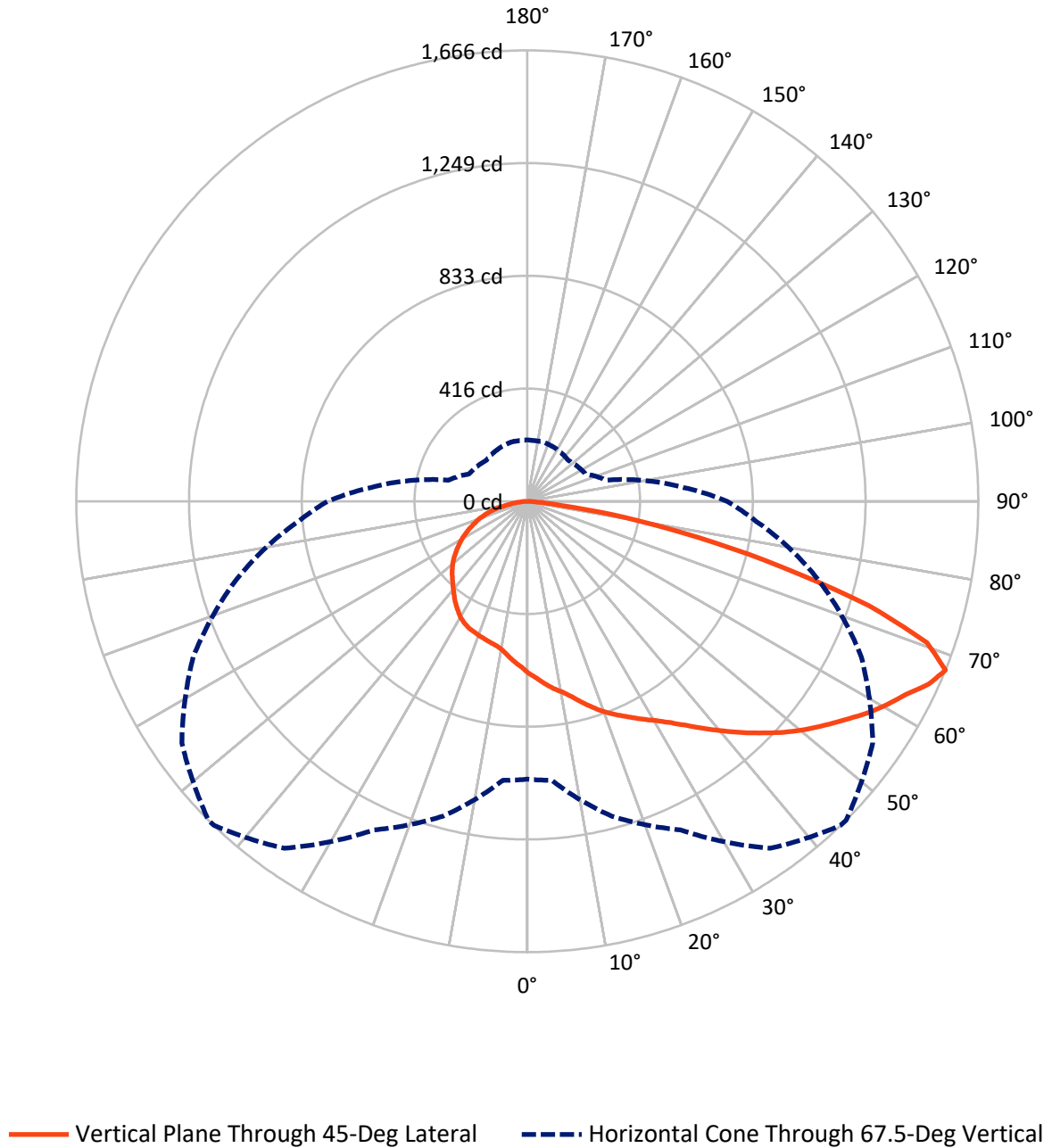
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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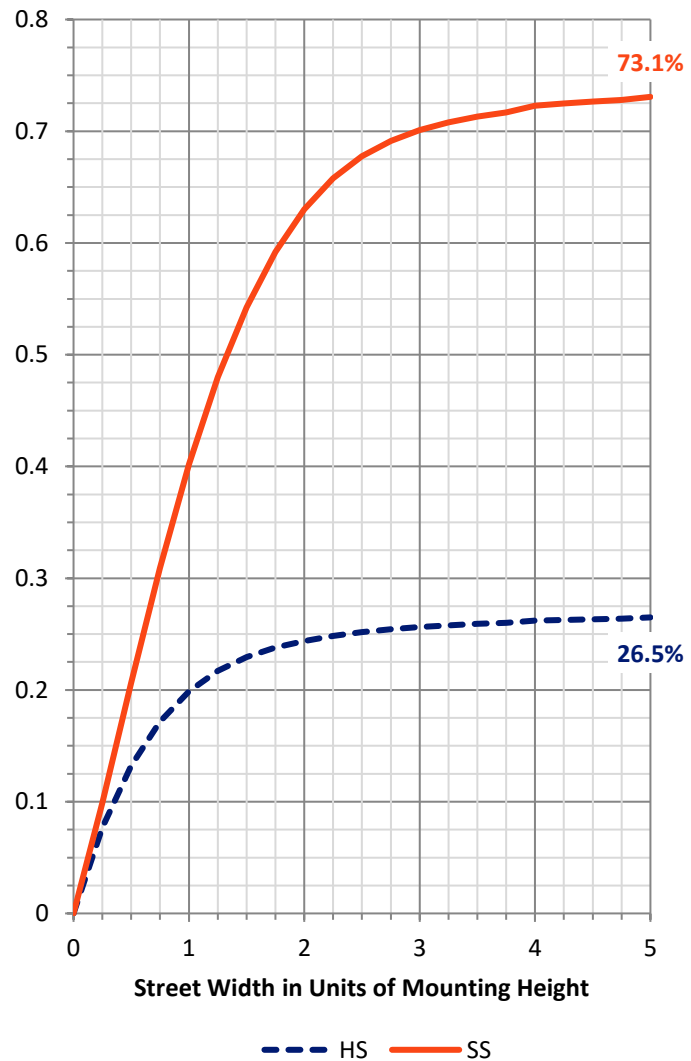
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.8	0.0	1017.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	2792.2	0.0	2792.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	3810.0	0.0	3810.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.6
10°-20°	187.9	4.9
20°-30°	324.4	8.5
30°-40°	478.4	12.6
40°-50°	648.1	17.0
50°-60°	792.2	20.8
60°-70°	817.0	21.4
70°-80°	447.5	11.7
80°-90°	53.6	1.4
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°	3810.0	100.0
0°-180°	3810.0	100.0



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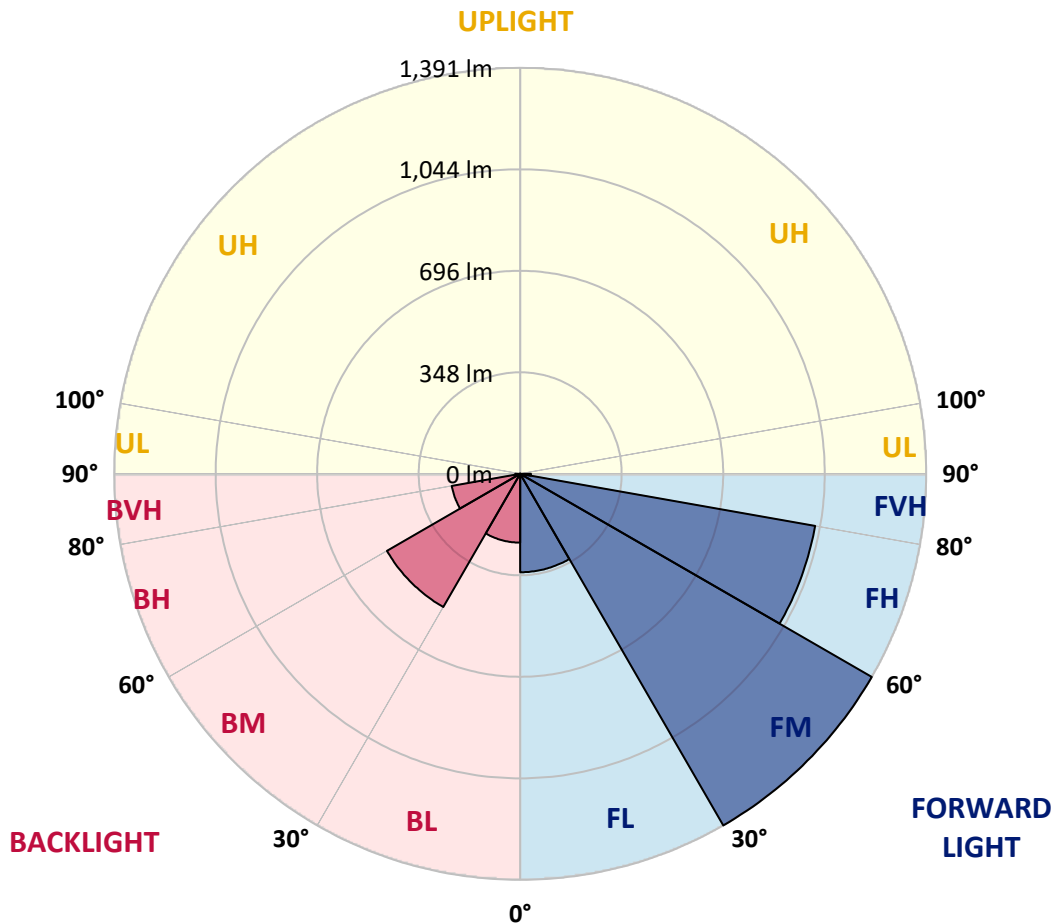
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.3	8.9			
FM (30°-60°)	1391.4	36.5			
FH (60°-80°)	1026.5	26.9			G1/1800
FVH (80°-90°)	36.9	1.0			G1/100
BL (0°-30°)	235.9	6.2	B1/500		
BM (30°-60°)	527.2	13.8	B1/1000		
BH (60°-80°)	238.0	6.2	B1/500		G1/500
BVH (80°-90°)	16.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
2.5°	663.3	662.7	663.8	659.8	654.6	654.0	654.0	650.5	646.5	638.3	632.0
5°	694.6	693.4	694.0	688.2	681.2	677.8	677.2	669.6	660.4	647.6	636.0
7.5°	723.6	722.4	721.8	715.4	705.0	699.2	698.6	687.6	676.6	656.9	640.1
10°	750.8	749.7	748.5	739.8	727.0	718.3	717.2	703.3	689.4	665.0	643.6
12.5°	785.6	783.3	782.1	771.7	753.1	743.9	742.1	723.6	706.2	676.6	650.5
15°	822.1	820.4	818.6	808.8	787.9	775.7	772.8	749.7	725.9	691.7	660.9
17.5°	849.4	847.6	847.6	838.9	819.8	805.9	803.6	775.7	746.2	705.6	669.1
20°	866.2	864.4	866.2	861.0	846.5	834.9	832.6	801.8	766.5	718.3	676.0
22.5°	878.4	876.6	879.5	877.2	866.8	859.8	858.1	827.9	787.3	731.7	683.0
25°	899.8	899.8	899.8	895.8	885.9	883.6	883.6	857.5	814.0	749.1	693.4
27.5°	942.7	940.4	937.5	925.9	909.1	908.5	912.0	887.6	844.7	771.7	706.2
30°	1005.9	1004.8	993.7	969.4	941.0	938.1	940.4	920.1	877.8	795.5	720.7
32.5°	1087.7	1083.6	1061.0	1024.5	983.9	970.5	975.2	953.7	912.6	819.8	734.6
35°	1145.6	1146.8	1130.6	1097.5	1049.4	1014.0	1017.5	991.4	950.3	847.1	752.0
37.5°	1212.3	1216.4	1192.0	1167.1	1122.4	1062.2	1065.6	1030.3	987.9	881.3	770.5
40°	1304.5	1296.4	1255.2	1225.6	1176.4	1112.6	1115.5	1073.7	1031.4	913.7	792.0
42.5°	1381.6	1367.1	1317.3	1279.6	1220.4	1165.9	1168.8	1120.7	1075.5	949.7	815.7
45°	1492.3	1452.3	1380.4	1361.9	1265.7	1218.1	1221.0	1170.6	1121.9	987.9	841.3
47.5°	1556.7	1492.9	1447.1	1437.3	1315.5	1272.0	1275.5	1223.3	1171.7	1031.4	867.9
50°	1552.6	1511.5	1498.1	1473.8	1359.6	1322.5	1326.0	1277.8	1222.2	1074.3	893.4
52.5°	1526.0	1533.5	1526.6	1486.0	1403.6	1371.2	1375.2	1331.7	1273.8	1114.3	917.2
55°	1567.1	1572.4	1559.0	1505.7	1452.3	1419.9	1424.5	1388.6	1324.8	1149.7	937.5
57.5°	1616.4	1597.9	1584.5	1540.5	1502.8	1472.6	1477.9	1446.5	1368.9	1178.1	953.2
60°	1614.1	1575.3	1588.6	1542.8	1537.0	1521.3	1526.0	1494.1	1402.5	1199.0	959.5
62.5°	1495.2	1474.4	1541.6	1526.0	1564.8	1564.8	1570.6	1523.1	1422.8	1207.7	956.1
65°	1288.8	1290.0	1408.3	1473.2	1597.9	1624.5	1629.2	1541.0	1411.2	1182.2	923.6
67.5°	1026.8	1034.3	1204.2	1339.3	1564.8	1665.1	1665.7	1557.3	1361.3	1110.3	848.2
70°	751.4	757.2	957.8	1121.9	1408.9	1575.3	1566.0	1511.5	1252.9	985.0	730.5
72.5°	507.9	513.1	719.5	861.5	1156.1	1341.6	1321.3	1335.8	1067.9	809.4	587.3
75°	341.5	347.9	511.9	616.3	850.5	1018.7	973.4	1011.7	826.2	612.8	428.5
77.5°	215.1	219.2	325.3	404.1	580.9	693.4	648.2	648.8	476.0	329.9	230.2
80°	136.8	138.0	197.1	233.1	336.3	416.9	368.7	299.7	214.5	175.1	137.4
82.5°	79.4	77.7	117.7	131.6	160.0	158.3	131.0	124.1	93.9	87.5	70.2
85°	31.9	29.6	51.6	48.1	48.7	51.6	38.3	38.3	30.7	23.8	17.4
87.5°	6.4	6.4	7.0	6.4	6.4	7.0	5.2	5.2	4.6	4.6	4.6
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°	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
2.5°	630.8	629.6	626.7	619.2	615.1	612.8	609.3	608.2	607.6	608.2	609.9
5°	632.5	628.5	620.4	608.2	600.1	594.9	589.1	586.7	585.0	585.0	586.7
7.5°	633.7	627.3	613.4	595.4	583.8	575.7	568.8	565.9	565.3	567.0	567.6
10°	634.3	625.0	605.3	582.7	567.6	557.2	550.2	548.5	550.2	553.7	554.3
12.5°	638.3	625.6	600.6	574.0	556.0	545.6	540.4	540.4	545.0	551.4	551.9
15°	645.3	629.6	598.3	567.0	548.5	539.2	537.5	540.4	547.3	557.2	558.3
17.5°	650.5	632.0	593.1	557.7	538.6	532.8	535.7	542.7	552.5	565.9	567.0
20°	654.0	632.0	585.6	546.7	528.8	527.6	535.7	546.7	557.2	572.8	574.6
22.5°	657.5	630.8	576.9	533.4	517.7	521.2	536.3	550.2	560.6	577.5	580.4
25°	663.8	632.5	568.2	520.1	506.1	516.0	535.7	552.5	563.5	580.9	585.6
27.5°	672.5	636.6	561.8	507.9	494.5	507.9	531.7	551.9	563.5	580.4	585.6
30°	681.8	641.2	554.3	494.5	481.2	496.3	523.0	545.6	558.9	574.6	580.9
32.5°	691.7	646.5	547.9	480.1	465.0	480.6	510.2	535.7	550.2	564.7	571.7
35°	705.0	655.7	544.4	468.5	450.5	464.4	494.0	523.0	538.6	551.9	560.1
37.5°	721.2	667.3	542.7	456.9	434.8	446.4	476.6	507.3	524.1	535.1	542.7
40°	739.8	681.8	542.1	445.8	419.2	427.9	458.6	489.3	505.6	514.3	520.6
42.5°	760.7	698.1	540.9	434.8	403.5	410.5	441.2	471.4	485.3	492.8	498.6
45°	782.7	714.3	538.6	421.5	386.7	394.8	423.2	449.9	464.4	470.8	477.2
47.5°	804.7	730.5	534.0	406.4	371.6	379.2	404.1	427.3	438.9	444.7	451.1
50°	826.2	745.0	523.0	389.0	356.0	362.9	382.1	397.7	406.4	411.1	417.4
52.5°	845.3	754.9	507.3	368.7	340.3	343.8	356.6	369.9	376.9	377.4	383.2
55°	861.5	760.1	484.7	347.9	323.5	324.1	331.1	341.5	344.4	342.1	346.1
57.5°	870.8	757.2	459.8	326.4	306.1	303.8	309.0	314.2	314.8	309.0	313.1
60°	873.1	743.9	427.3	305.0	288.7	282.4	284.1	282.9	281.8	279.5	282.9
62.5°	861.5	715.4	391.3	284.1	270.2	260.3	259.7	259.2	260.9	261.5	262.1
65°	819.2	662.1	348.4	262.6	250.5	237.1	236.5	243.5	245.8	242.3	243.5
67.5°	737.5	580.4	301.5	237.7	225.5	213.9	218.6	222.6	226.7	225.5	226.7
70°	621.5	476.6	258.6	209.9	198.3	191.9	197.1	200.6	201.2	200.0	201.2
72.5°	488.8	372.2	218.6	181.5	171.0	168.1	174.5	177.4	182.6	184.9	185.5
75°	353.1	274.8	179.2	150.7	142.0	142.0	147.8	153.1	157.7	154.8	153.1
77.5°	197.1	164.1	128.7	103.8	105.5	113.6	116.0	121.8	126.4	125.8	124.7
80°	119.4	102.6	87.0	67.3	66.7	73.1	88.1	98.0	100.3	95.1	94.5
82.5°	62.0	53.9	46.4	37.7	41.7	48.7	51.0	61.5	67.8	65.5	68.4
85°	15.7	15.1	16.8	17.4	21.5	23.8	26.1	30.7	20.3	9.9	9.9
87.5°	4.6	4.6	5.8	5.8	7.5	9.3	8.7	8.7	4.6	0.6	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)