

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: P798740

Luminaire Tested: **ARCH1-30-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

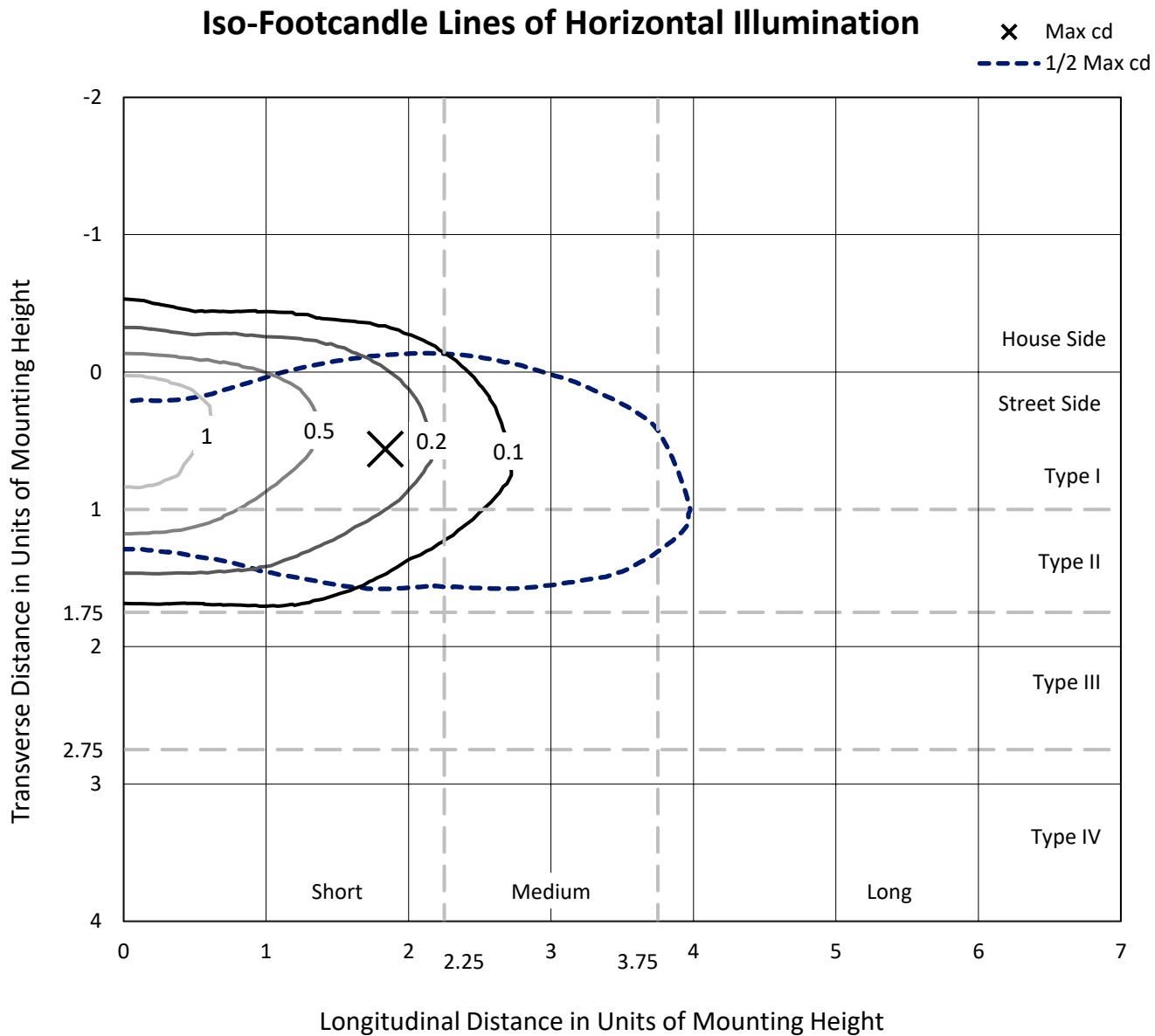
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - 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



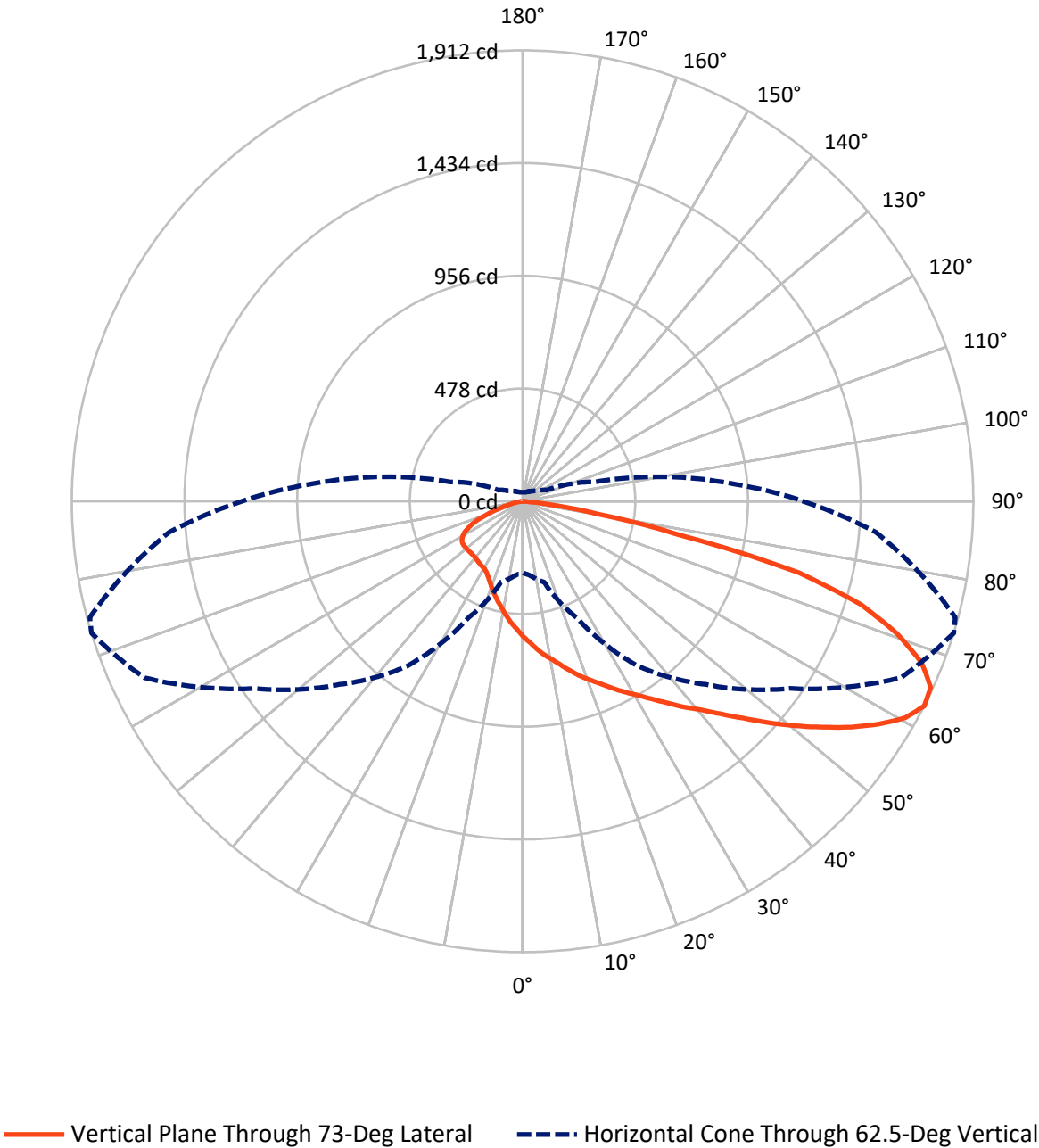
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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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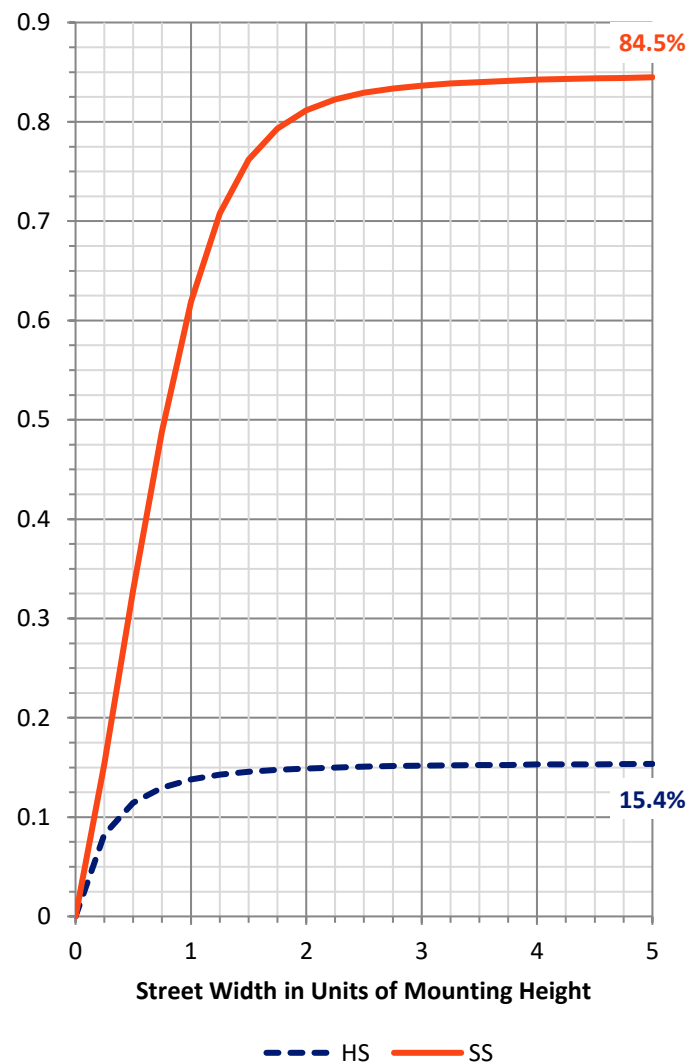
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.4	0.0	471.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2569.6	0.0	2569.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	3041.0	0.0	3041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.8
10°-20°	167.9	5.5
20°-30°	279.4	9.2
30°-40°	421.6	13.9
40°-50°	589.3	19.4
50°-60°	650.9	21.4
60°-70°	567.0	18.6
70°-80°	286.4	9.4
80°-90°	23.0	0.8
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°	3041.0	100.0
0°-180°	3041.0	100.0

Coefficient of Utilization



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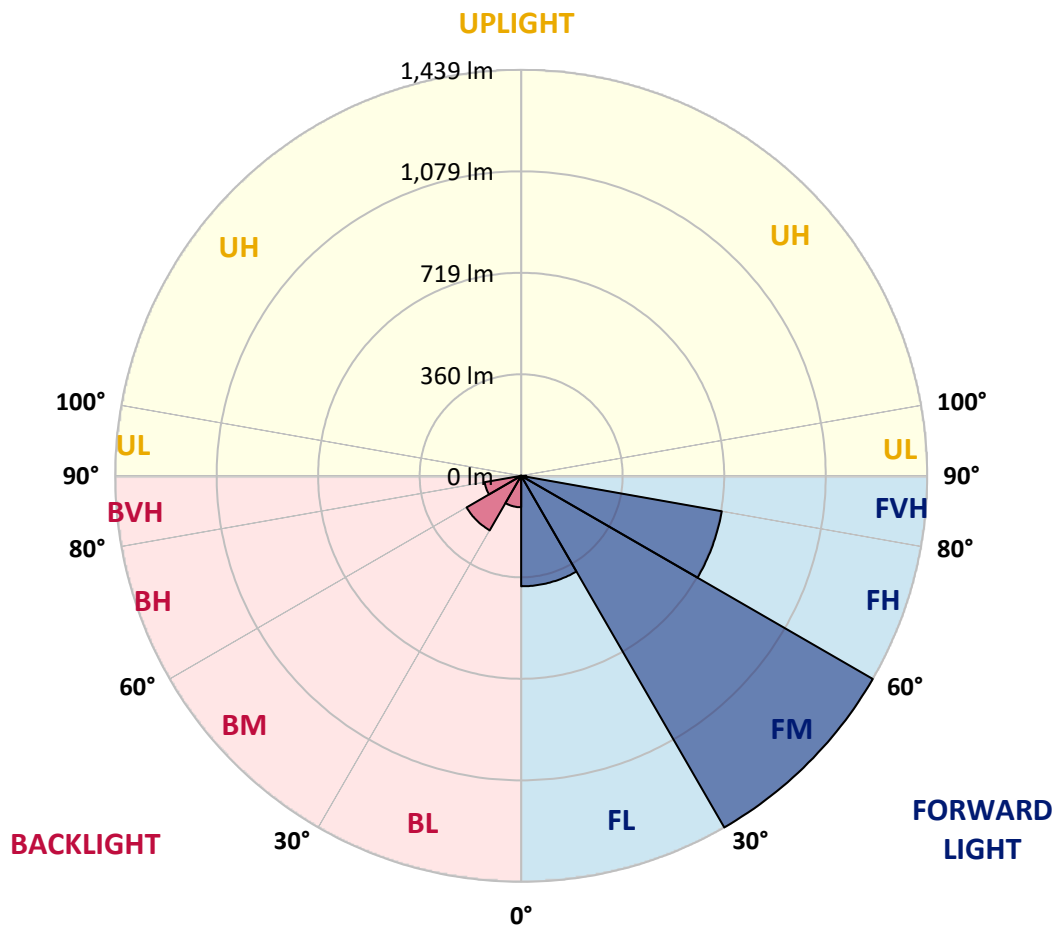
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.5	12.9			
FM	(30°-60°)	1438.5	47.3			
FH	(60°-80°)	721.8	23.7			G1/1800
FVH	(80°-90°)	17.8	0.6			G1/100
BL	(0°-30°)	111.4	3.7	B1/500		
BM	(30°-60°)	223.2	7.3	B1/1000		
BH	(60°-80°)	131.6	4.3	B1/500		G1/500
BVH	(80°-90°)	5.2	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	655.3	662.6	658.6	661.3	648.0	639.4	629.5	610.3	599.7	598.3	585.8
5°	751.4	759.4	752.7	750.8	727.6	707.7	685.2	651.4	628.8	624.9	597.0
7.5°	847.5	854.8	846.8	840.9	809.7	774.6	741.5	691.8	656.7	650.0	606.3
10°	915.1	921.7	915.7	909.8	877.3	841.5	794.5	729.5	681.8	671.2	612.3
12.5°	966.1	970.1	967.4	962.1	931.6	893.2	848.2	772.0	710.3	697.1	621.5
15°	1007.9	1014.5	1011.2	1007.2	978.0	939.6	896.5	816.4	743.5	726.9	635.5
17.5°	1035.7	1040.3	1041.0	1041.0	1015.1	977.4	935.6	856.8	776.6	755.4	648.7
20°	1048.3	1053.6	1056.9	1062.2	1041.0	1008.5	966.1	891.2	807.7	783.9	661.3
22.5°	1054.2	1058.9	1067.5	1079.4	1062.2	1035.0	995.9	923.0	838.9	813.7	675.9
25°	1058.9	1064.8	1077.4	1100.0	1088.0	1064.8	1031.0	959.5	876.0	850.1	697.1
27.5°	1071.5	1078.8	1090.7	1117.8	1103.3	1092.0	1068.1	998.6	915.1	888.6	722.9
30°	1115.2	1121.2	1120.5	1137.7	1119.8	1116.5	1100.0	1036.3	952.9	926.3	753.4
32.5°	1194.7	1200.7	1186.1	1179.5	1140.4	1141.0	1134.4	1076.8	997.9	970.7	788.5
35°	1280.2	1286.8	1267.6	1256.3	1190.7	1171.5	1174.8	1127.1	1048.3	1021.1	832.3
37.5°	1356.4	1364.3	1347.8	1331.2	1264.9	1220.6	1219.9	1183.4	1105.9	1078.1	880.6
40°	1398.1	1407.4	1417.4	1408.1	1338.5	1289.5	1268.3	1241.1	1162.9	1134.4	933.0
42.5°	1418.0	1443.9	1461.7	1455.8	1398.8	1349.1	1323.9	1301.4	1232.5	1204.6	995.3
45°	1362.4	1363.0	1400.8	1433.3	1422.7	1389.5	1384.9	1369.0	1312.0	1285.5	1065.5
47.5°	1292.8	1287.5	1314.0	1371.6	1401.4	1410.1	1437.2	1443.9	1402.8	1376.3	1137.1
50°	1125.8	1129.1	1215.3	1298.1	1356.4	1412.1	1474.3	1520.7	1496.2	1471.0	1212.6
52.5°	915.7	923.7	1022.4	1204.6	1296.8	1392.2	1496.2	1597.6	1591.6	1567.8	1288.1
55°	734.2	746.8	851.5	1048.9	1220.6	1347.8	1505.5	1667.8	1690.4	1668.5	1362.4
57.5°	561.2	574.5	662.6	865.4	1123.1	1275.6	1498.9	1729.4	1782.5	1768.5	1430.6
60°	422.8	436.0	492.3	701.7	1001.2	1194.7	1465.7	1769.9	1865.3	1850.7	1480.3
62.5°	302.8	313.4	355.2	546.0	852.8	1098.6	1384.2	1770.5	1912.3	1900.4	1504.2
65°	218.0	218.0	251.8	389.6	713.6	983.3	1261.0	1689.0	1902.4	1899.1	1487.6
67.5°	157.0	158.4	185.5	272.3	569.2	843.5	1101.3	1543.9	1825.5	1842.1	1428.0
70°	111.3	114.6	127.2	190.2	430.0	665.9	930.3	1353.7	1687.0	1716.2	1312.7
72.5°	86.1	88.1	96.7	132.5	314.1	495.0	741.5	1141.7	1502.2	1535.3	1155.6
75°	66.3	68.3	74.9	97.4	225.3	347.2	526.8	885.9	1211.3	1270.2	928.3
77.5°	48.4	51.0	55.7	70.9	131.2	220.7	319.4	498.3	668.6	696.4	486.4
80°	22.5	25.8	32.5	45.7	70.9	104.0	113.3	192.2	321.4	336.0	263.7
82.5°	12.6	15.9	18.6	27.8	35.8	37.1	38.4	48.4	121.3	133.8	110.7
85°	6.0	8.0	8.6	11.9	11.9	10.6	12.6	9.3	19.9	23.9	23.2
87.5°	0.0	0.7	1.3	3.3	2.7	2.0	2.0	2.0	2.0	2.7	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°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	579.8	571.2	551.3	534.1	522.8	512.9	499.6	493.7	483.1	485.0	479.1
5°	583.1	567.2	532.1	499.6	475.8	454.6	431.4	418.1	403.5	402.2	397.6
7.5°	585.1	560.6	510.2	464.5	428.1	395.6	364.4	347.2	329.3	325.3	321.4
10°	583.1	550.6	487.7	428.1	379.7	339.3	304.1	282.3	263.7	259.1	255.1
12.5°	585.1	545.3	466.5	394.3	336.6	290.9	251.1	228.6	211.4	206.7	204.1
15°	589.7	542.0	448.6	363.8	298.2	247.2	208.1	188.8	174.9	170.3	169.0
17.5°	593.7	538.7	429.4	334.0	259.7	208.7	174.9	159.0	147.1	142.5	141.1
20°	599.0	534.1	410.2	305.5	226.0	178.2	148.4	134.5	125.2	121.9	121.3
22.5°	603.6	530.8	392.3	277.0	194.8	153.7	128.5	117.3	110.7	107.3	107.3
25°	615.6	532.1	377.0	250.5	171.6	134.5	113.3	104.7	99.4	97.4	97.4
27.5°	629.5	537.4	365.1	227.9	151.7	119.9	102.7	95.4	92.8	90.1	90.8
30°	649.4	548.0	357.2	209.4	137.2	108.7	94.1	88.8	86.1	85.5	85.5
32.5°	674.6	565.2	356.5	197.5	126.6	100.1	88.1	83.5	82.2	81.5	81.5
35°	704.4	580.5	352.5	192.2	119.9	94.1	83.5	80.2	79.5	79.5	79.5
37.5°	740.2	605.6	349.9	184.9	116.6	90.8	80.2	77.5	77.5	77.5	77.5
40°	777.3	626.2	345.9	178.2	115.3	88.8	78.2	74.9	74.9	74.9	74.9
42.5°	821.7	656.0	344.6	174.9	113.3	87.5	75.5	71.6	72.2	72.2	72.9
45°	875.3	689.8	343.9	171.6	112.6	86.1	72.9	68.3	68.9	68.3	68.3
47.5°	929.7	728.9	345.9	169.6	112.0	84.8	70.9	64.9	64.9	64.3	64.3
50°	986.6	764.7	347.2	167.6	110.7	82.2	67.6	62.3	61.0	59.6	60.3
52.5°	1040.3	797.8	347.9	164.3	106.7	78.2	64.9	59.0	57.0	55.0	55.7
55°	1094.0	829.6	349.2	160.4	101.4	74.2	61.6	55.7	53.0	50.4	50.4
57.5°	1142.4	857.4	345.9	150.4	95.4	70.2	58.3	51.7	47.7	45.1	45.1
60°	1175.5	877.3	336.0	135.8	87.5	65.6	55.0	47.7	43.1	41.1	41.1
62.5°	1191.4	880.6	318.1	112.0	77.5	61.0	51.0	43.7	39.8	38.4	38.4
65°	1176.2	866.0	290.2	84.2	66.9	55.7	47.0	40.4	36.4	33.1	33.1
67.5°	1123.1	825.0	251.8	63.6	57.0	50.4	43.1	37.1	32.5	29.8	29.8
70°	1016.5	739.5	194.8	51.0	48.4	43.7	39.1	33.1	29.2	25.8	25.8
72.5°	876.7	626.8	137.2	41.1	41.1	37.1	33.1	29.2	25.2	22.5	22.5
75°	672.6	463.8	92.1	33.1	33.8	31.1	27.2	23.9	21.2	19.2	19.2
77.5°	367.1	229.3	56.3	24.5	25.2	23.9	21.2	19.2	17.9	15.9	15.9
80°	178.2	100.7	32.5	17.2	17.9	17.2	15.9	13.9	13.9	12.6	12.6
82.5°	74.9	37.8	17.2	11.9	11.9	10.6	9.9	9.9	9.9	9.3	9.3
85°	18.6	7.3	7.3	6.6	6.6	6.6	6.0	6.0	6.0	4.6	5.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.0	0.7	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)