

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: P799608

Luminaire Tested: **ARCH2-40-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799608
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: ARCH2-40-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA 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: 3894 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

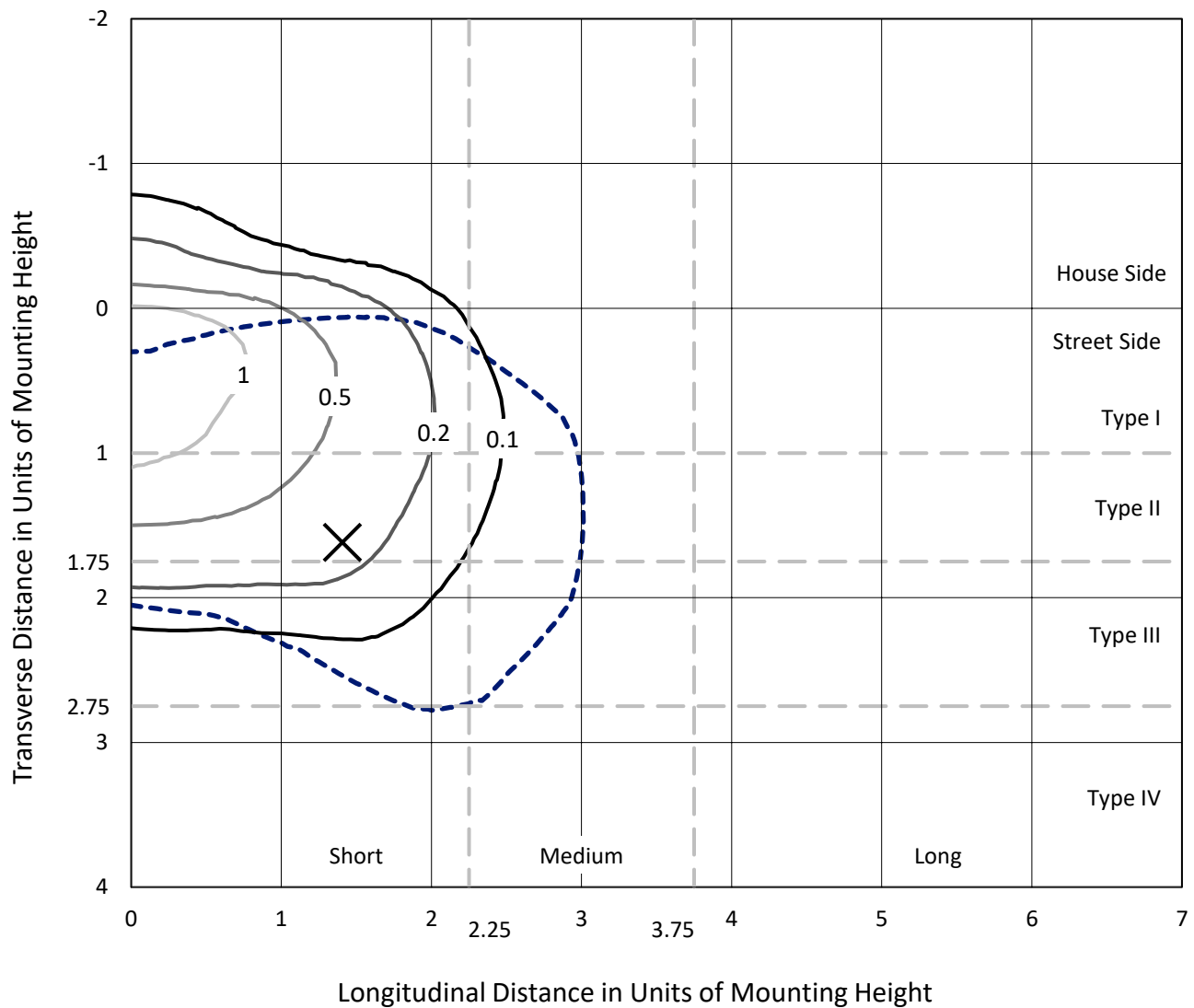


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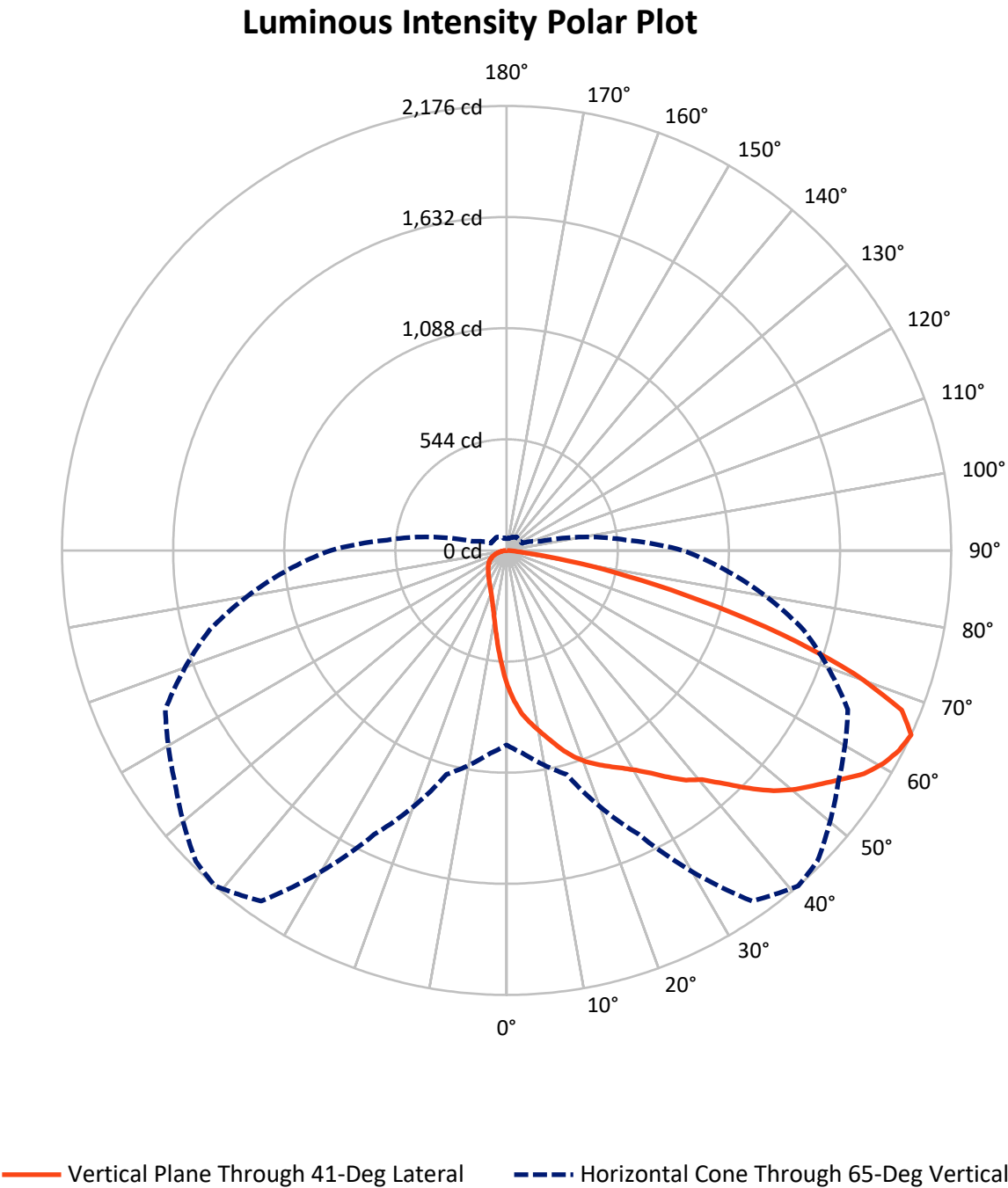
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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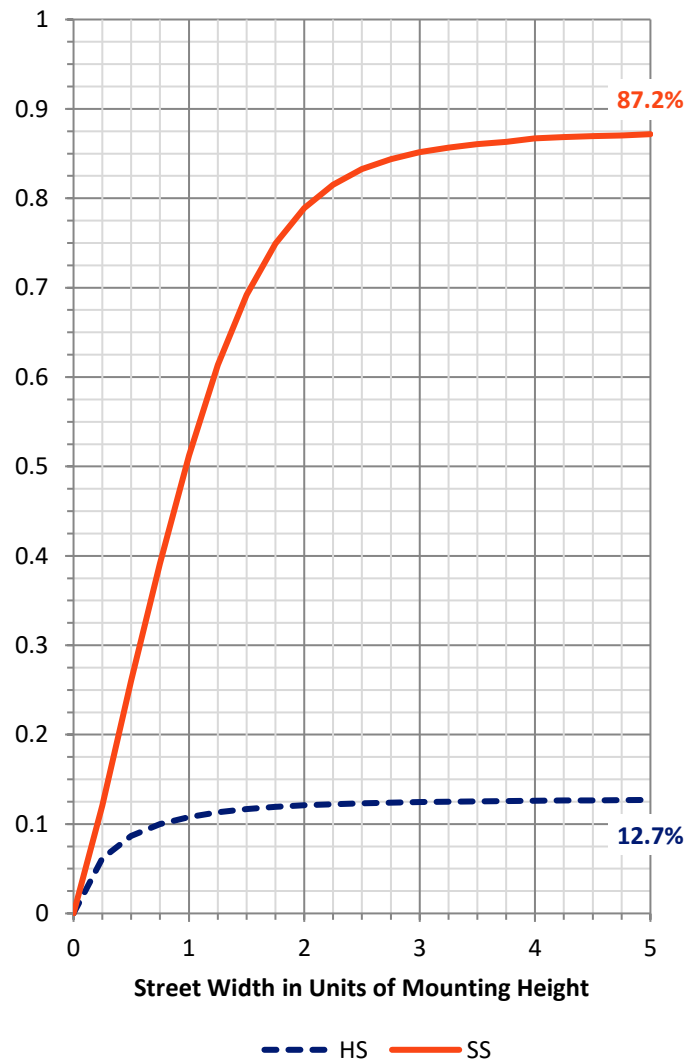
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	499.9	0.0	499.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3394.1	0.0	3394.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	3894.0	0.0	3894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.6
10°-20°	185.4	4.8
20°-30°	318.9	8.2
30°-40°	483.7	12.4
40°-50°	708.6	18.2
50°-60°	894.8	23.0
60°-70°	839.1	21.5
70°-80°	374.0	9.6
80°-90°	27.7	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°	3894.0	100.0
0°-180°	3894.0	100.0

Coefficient of Utilization



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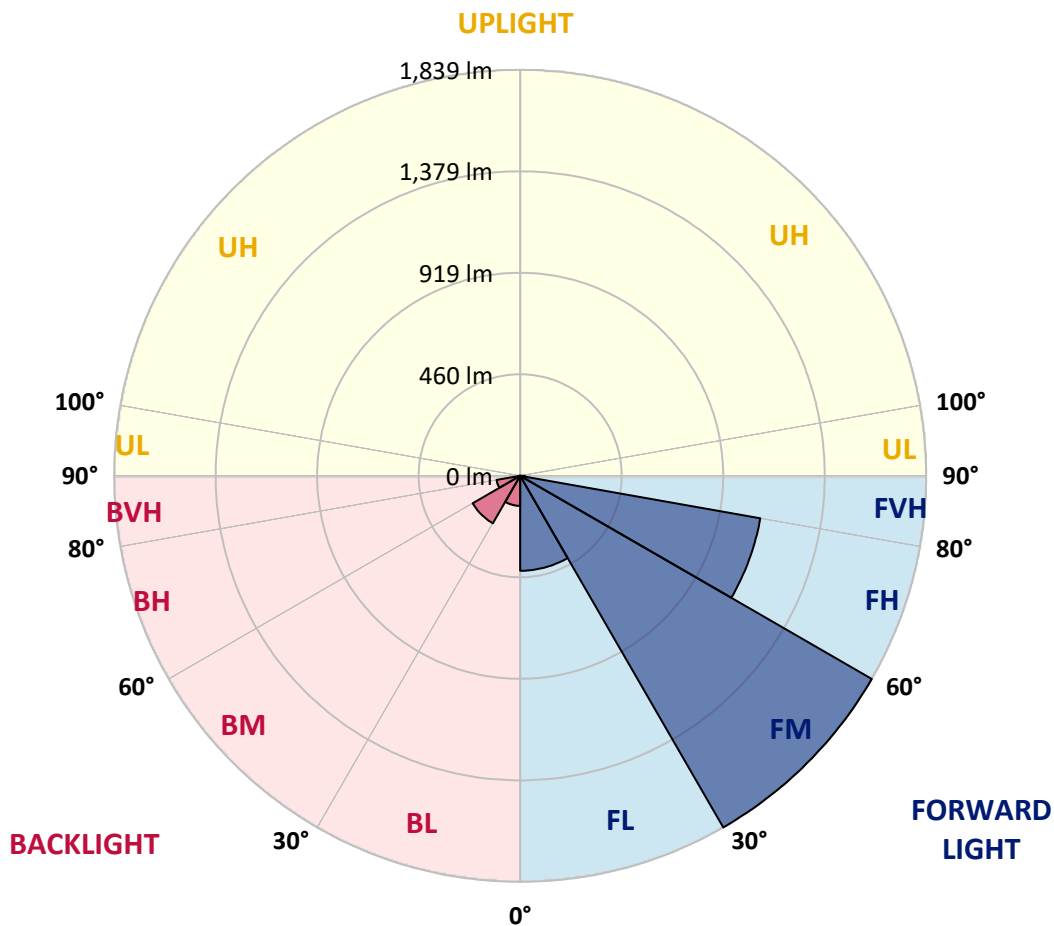
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.0	11.0			
FM	(30°-60°)	1838.9	47.2			
FH	(60°-80°)	1104.4	28.4			G1/1800
FVH	(80°-90°)	20.7	0.5			G1/100
BL	(0°-30°)	136.1	3.5	B1/500		
BM	(30°-60°)	248.2	6.4	B1/1000		
BH	(60°-80°)	108.6	2.8	B0/110		G0/110
BVH	(80°-90°)	7.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5
2.5°	765.3	762.9	761.2	752.2	752.2	739.9	740.7	729.2	715.3	693.1	669.3
5°	837.6	834.3	830.2	821.2	817.9	805.6	803.9	787.5	763.7	725.1	682.4
7.5°	900.8	897.6	891.8	878.7	869.6	854.9	850.7	829.4	803.1	755.5	695.5
10°	958.3	955.9	948.5	932.0	919.7	901.7	894.3	865.5	832.7	780.1	706.2
12.5°	1016.6	1013.3	1003.5	989.5	974.7	953.4	944.4	907.4	865.5	807.2	721.8
15°	1070.8	1065.9	1058.5	1043.7	1030.6	1010.1	1000.2	956.7	905.8	837.6	742.4
17.5°	1106.1	1102.0	1095.5	1087.2	1076.6	1061.0	1051.1	1008.4	946.0	867.2	763.7
20°	1127.5	1125.8	1123.4	1118.5	1113.5	1102.9	1095.5	1055.2	989.5	895.9	784.2
22.5°	1143.9	1142.3	1141.4	1141.4	1142.3	1138.2	1133.2	1098.7	1031.4	926.3	803.1
25°	1169.4	1168.5	1166.9	1165.3	1171.0	1171.8	1170.2	1146.4	1084.0	966.5	826.9
27.5°	1204.7	1202.2	1198.9	1197.3	1203.0	1207.1	1210.4	1194.0	1139.8	1007.6	854.0
30°	1258.9	1251.5	1243.3	1237.5	1241.6	1248.2	1255.6	1245.7	1197.3	1058.5	882.0
32.5°	1322.9	1313.9	1295.0	1284.3	1295.0	1299.9	1305.7	1300.8	1257.2	1113.5	909.9
35°	1400.9	1390.3	1370.6	1355.0	1373.8	1363.2	1360.7	1355.8	1313.9	1167.7	941.1
37.5°	1530.7	1515.1	1483.9	1449.4	1449.4	1426.4	1417.4	1402.6	1364.8	1216.2	971.5
40°	1681.0	1660.4	1620.2	1569.3	1522.5	1474.8	1469.1	1458.4	1424.8	1272.0	1006.0
42.5°	1846.0	1806.6	1750.8	1689.2	1613.6	1559.4	1546.3	1515.9	1483.1	1328.7	1040.4
45°	2029.1	1947.0	1865.7	1834.5	1709.7	1660.4	1635.8	1580.8	1543.8	1387.8	1076.6
47.5°	2058.7	1994.7	1940.5	1935.5	1799.2	1758.2	1730.2	1651.4	1609.5	1451.0	1114.3
50°	2042.3	2003.7	2009.4	1989.7	1864.9	1837.8	1816.5	1727.0	1674.4	1511.8	1148.8
52.5°	1973.3	1994.7	2027.5	1991.4	1927.3	1905.1	1894.5	1808.2	1735.2	1567.6	1180.0
55°	1891.2	1906.0	1976.6	2020.9	1999.6	1979.9	1970.0	1902.7	1795.1	1614.4	1208.8
57.5°	1771.3	1764.7	1842.7	2016.0	2075.1	2063.6	2053.0	1995.5	1851.0	1648.1	1226.8
60°	1591.5	1577.5	1676.0	1917.5	2099.8	2117.8	2112.9	2057.1	1893.7	1647.3	1219.5
62.5°	1280.2	1314.7	1451.0	1756.5	2110.4	2156.4	2147.4	2062.0	1907.6	1599.7	1172.7
65°	951.8	1001.0	1134.9	1534.8	2095.7	2176.1	2151.5	1981.5	1842.7	1505.2	1070.0
67.5°	685.7	729.2	826.9	1263.0	1953.6	2085.8	2057.1	1850.1	1693.3	1371.4	927.9
70°	468.9	500.1	566.6	919.7	1667.8	1803.3	1785.3	1653.9	1457.6	1212.1	753.8
72.5°	330.9	344.1	386.8	606.9	1267.1	1414.9	1393.6	1360.7	1171.0	1007.6	586.3
75°	248.0	256.2	279.2	392.5	854.9	980.5	960.8	979.7	874.6	762.9	427.0
77.5°	93.6	101.8	158.5	250.5	505.8	601.9	582.2	593.7	486.1	385.1	212.7
80°	25.5	27.1	52.6	119.1	229.9	299.7	272.6	234.0	180.7	177.4	112.5
82.5°	10.7	12.3	23.8	64.1	82.1	82.1	69.0	85.4	69.0	82.9	54.2
85°	4.1	4.9	5.7	16.4	10.7	11.5	12.3	16.4	14.0	17.2	12.3
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	0.8	1.6	2.5	2.5	2.5
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°	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5	663.5
2.5°	659.4	650.4	637.2	615.9	593.7	581.4	565.8	563.3	546.9	545.3	538.7
5°	663.5	644.6	611.0	569.9	529.7	498.5	475.5	463.1	439.3	439.3	432.8
7.5°	666.8	637.2	583.0	522.3	467.3	425.4	394.2	381.0	359.7	358.0	353.1
10°	667.6	628.2	552.7	473.8	406.5	363.8	333.4	318.6	299.7	298.1	294.8
12.5°	674.2	623.3	525.6	431.9	363.0	317.0	287.4	275.1	260.3	258.7	255.4
15°	684.9	623.3	502.6	396.6	324.4	281.7	256.2	244.7	234.0	232.4	230.8
17.5°	695.5	621.6	479.6	363.8	292.3	253.7	231.6	222.5	214.3	213.5	211.9
20°	705.4	620.8	456.6	335.9	267.7	230.8	213.5	205.3	198.7	198.7	197.9
22.5°	715.3	619.2	434.4	309.6	246.4	213.5	198.7	189.7	184.8	184.8	183.9
25°	730.0	619.2	413.9	287.4	229.1	200.4	185.6	179.0	174.9	174.1	174.1
27.5°	747.3	624.1	395.8	267.7	214.3	187.2	175.7	169.2	164.2	162.6	163.4
30°	766.2	628.2	379.4	250.5	200.4	177.4	165.1	158.5	153.6	151.9	152.7
32.5°	785.1	633.1	364.6	234.9	186.4	168.3	156.0	148.6	143.7	142.9	142.9
35°	805.6	638.1	349.8	221.7	174.9	159.3	147.8	139.6	136.3	134.7	135.5
37.5°	826.1	646.3	335.9	209.4	166.7	151.1	140.4	132.2	129.7	128.9	128.9
40°	850.7	658.6	330.1	201.2	159.3	143.7	134.7	126.5	124.0	124.0	124.0
42.5°	871.3	668.4	325.2	192.2	153.6	137.1	128.9	122.4	120.7	119.9	120.7
45°	891.8	677.5	318.6	183.9	146.2	130.6	124.0	117.4	115.8	115.8	115.8
47.5°	912.3	682.4	309.6	175.7	139.6	124.8	119.1	113.3	111.7	111.7	111.7
50°	928.8	686.5	296.4	166.7	132.2	119.9	114.1	108.4	106.8	106.8	106.8
52.5°	945.2	687.3	282.5	156.0	124.8	114.1	109.2	103.5	101.8	101.0	101.0
55°	960.0	686.5	266.1	143.7	116.6	107.6	103.5	98.5	95.3	92.0	93.6
57.5°	970.6	685.7	247.2	131.4	108.4	101.0	99.4	92.8	86.2	78.0	79.7
60°	966.5	676.7	226.6	115.8	99.4	94.4	94.4	85.4	73.9	69.8	70.6
62.5°	940.3	651.2	205.3	99.4	90.3	87.9	87.0	77.2	68.2	64.1	64.9
65°	861.4	587.1	174.1	84.6	81.3	80.5	80.5	71.4	63.2	58.3	59.1
67.5°	741.5	492.7	142.1	71.4	72.3	73.9	73.9	65.7	57.5	52.6	53.4
70°	594.5	385.1	113.3	61.6	62.4	64.9	66.5	59.1	51.7	46.8	46.8
72.5°	447.5	292.3	91.2	51.7	55.8	55.8	58.3	52.6	45.2	40.2	41.1
75°	324.4	209.4	72.3	43.5	48.4	47.6	47.6	44.3	38.6	35.3	35.3
77.5°	153.6	110.0	57.5	31.2	37.8	37.0	37.8	35.3	32.8	29.6	30.4
80°	75.5	54.2	37.0	22.2	26.3	27.1	29.6	27.9	27.1	24.6	24.6
82.5°	36.1	21.4	17.2	15.6	18.1	18.9	20.5	20.5	21.4	19.7	19.7
85°	9.9	5.7	7.4	9.9	11.5	12.3	14.0	14.8	14.8	14.0	14.8
87.5°	2.5	2.5	3.3	4.9	5.7	6.6	7.4	7.4	3.3	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)