

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: P798872

Luminaire Tested: **ARCH1-40-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798872
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: ARCH1-40-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA 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: 3882 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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

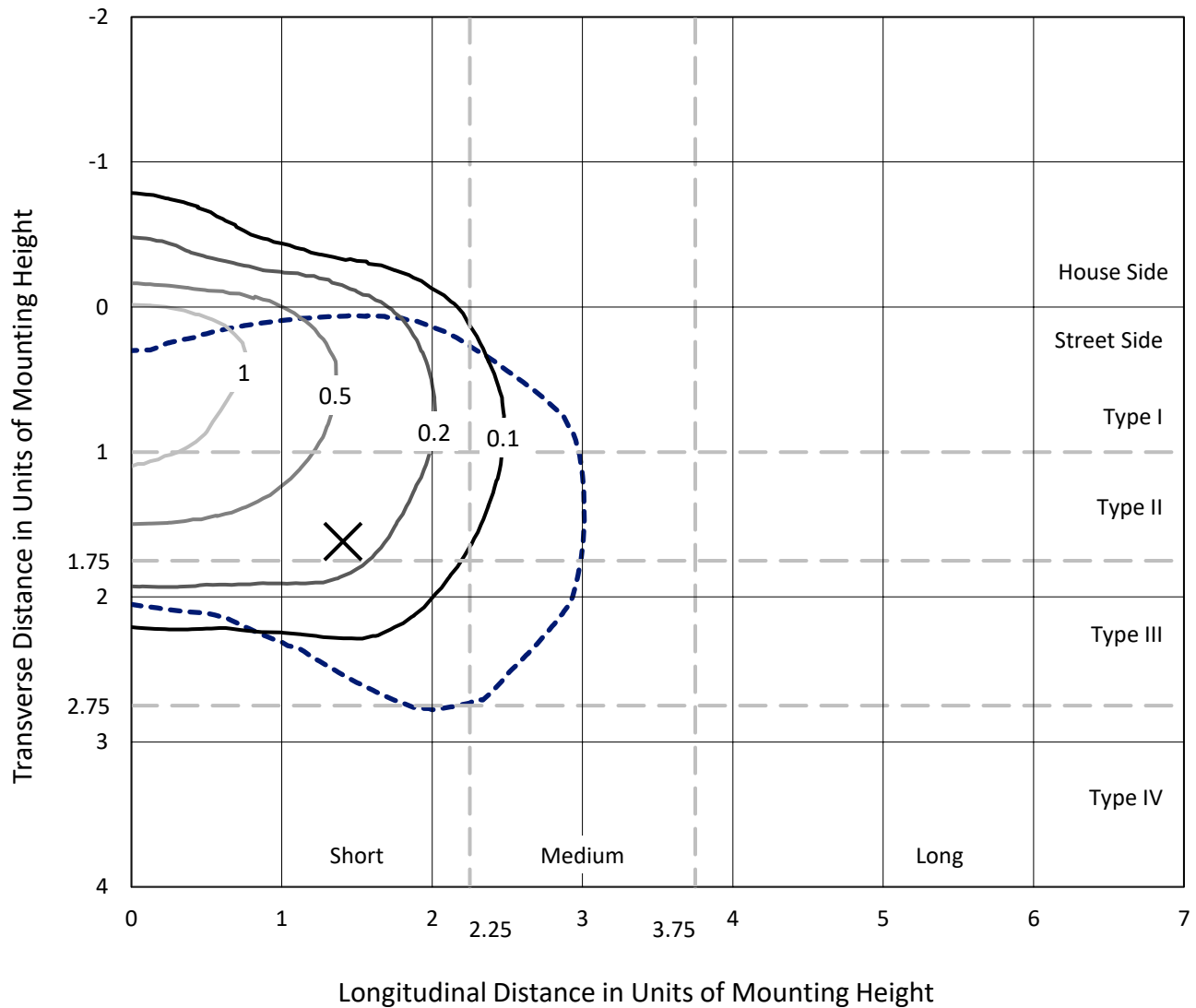


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

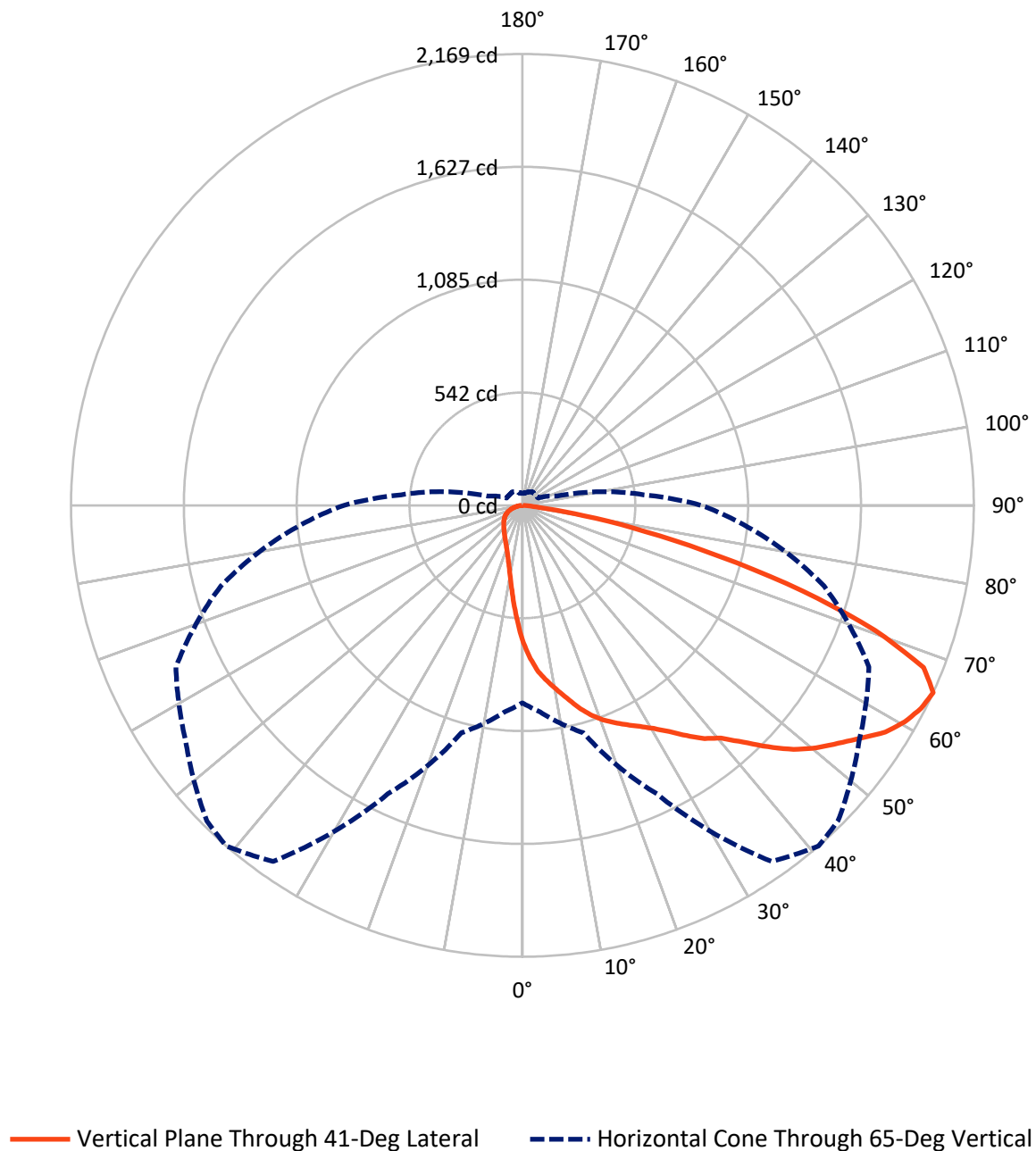


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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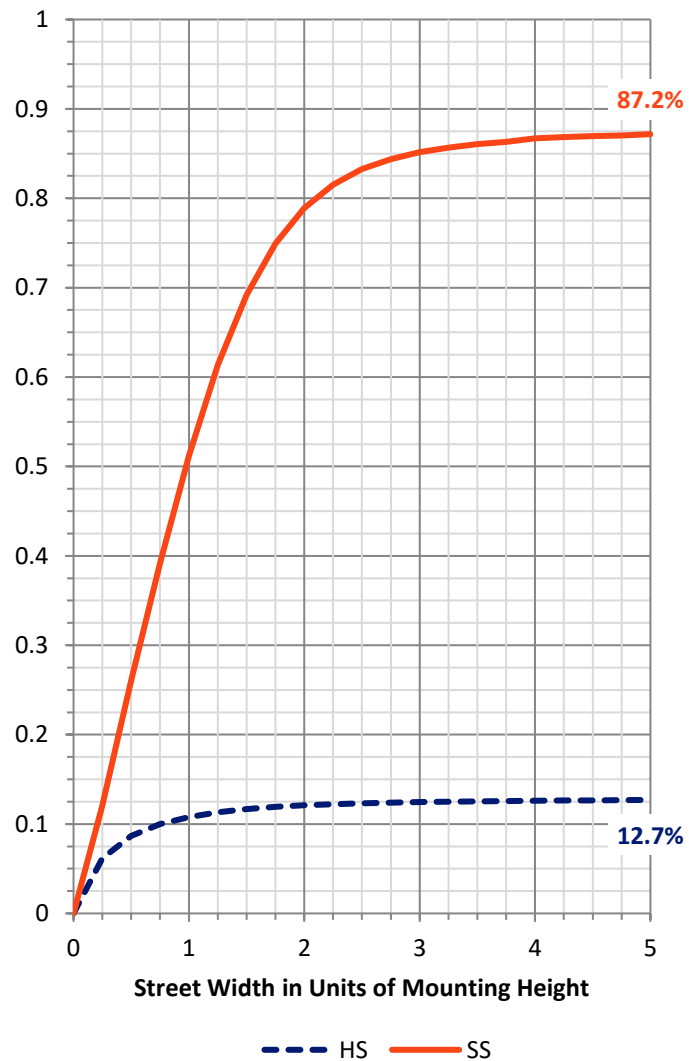
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.4	0.0	498.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3383.6	0.0	3383.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	3882.0	0.0	3882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.6
10°-20°	184.8	4.8
20°-30°	317.9	8.2
30°-40°	482.2	12.4
40°-50°	706.4	18.2
50°-60°	892.1	23.0
60°-70°	836.5	21.5
70°-80°	372.8	9.6
80°-90°	27.6	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°	3882.0	100.0
0°-180°	3882.0	100.0

Coefficient of Utilization



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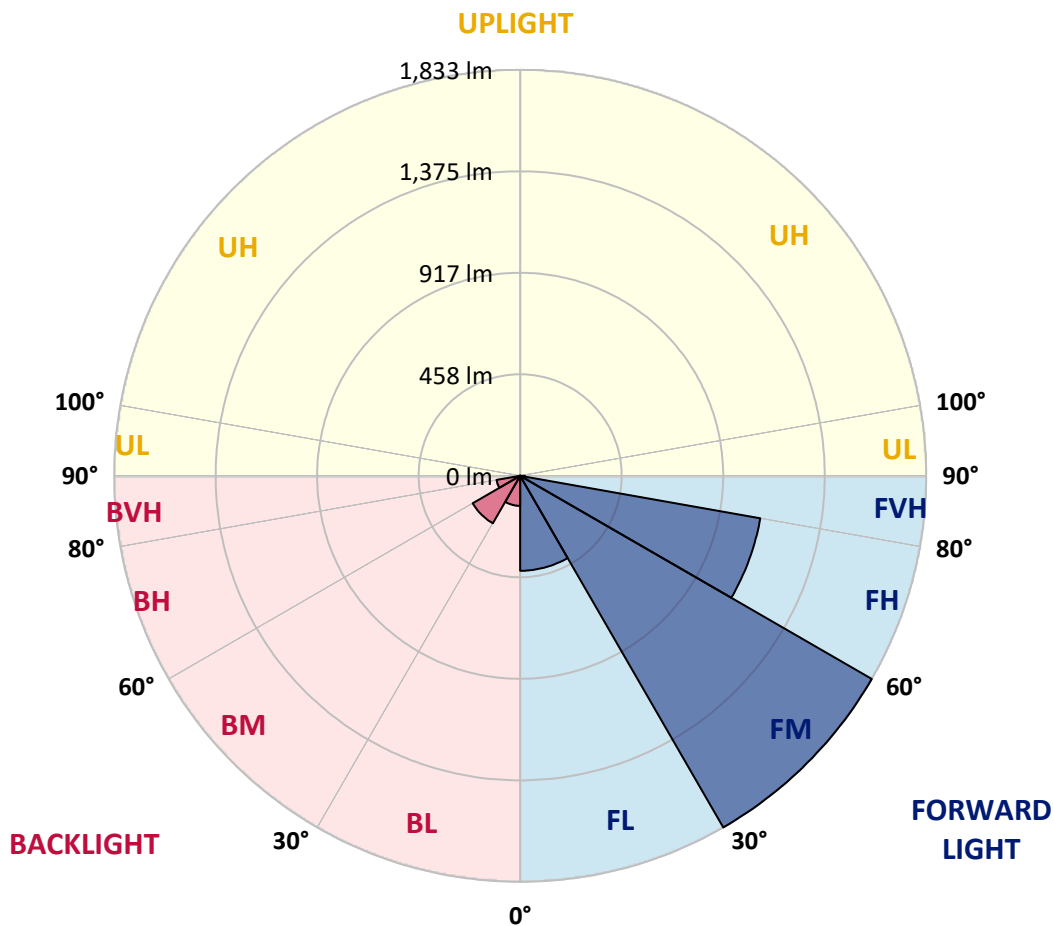
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.7	11.0			
FM	(30°-60°)	1833.2	47.2			
FH	(60°-80°)	1101.0	28.4			G1/1800
FVH	(80°-90°)	20.6	0.5			G1/100
BL	(0°-30°)	135.7	3.5	B1/500		
BM	(30°-60°)	247.5	6.4	B1/1000		
BH	(60°-80°)	108.3	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°	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
2.5°	763.0	760.5	758.9	749.9	749.9	737.6	738.4	727.0	713.0	690.9	667.2
5°	835.0	831.8	827.7	818.7	815.4	803.1	801.5	785.1	761.3	722.9	680.3
7.5°	898.1	894.8	889.1	876.0	867.0	852.2	848.1	826.8	800.6	753.2	693.4
10°	955.4	952.9	945.5	929.2	916.9	898.9	891.5	862.9	830.1	777.7	704.0
12.5°	1013.5	1010.2	1000.4	986.5	971.7	950.5	941.5	904.6	862.9	804.7	719.6
15°	1067.5	1062.6	1055.2	1040.5	1027.4	1006.9	997.1	953.7	903.0	835.0	740.1
17.5°	1102.7	1098.6	1092.1	1083.9	1073.3	1057.7	1047.9	1005.3	943.1	864.5	761.3
20°	1124.0	1122.4	1119.9	1115.0	1110.1	1099.5	1092.1	1052.0	986.5	893.2	781.8
22.5°	1140.4	1138.7	1137.9	1137.9	1138.7	1134.7	1129.7	1095.4	1028.2	923.4	800.6
25°	1165.8	1164.9	1163.3	1161.7	1167.4	1168.2	1166.6	1142.8	1080.6	963.6	824.4
27.5°	1201.0	1198.5	1195.2	1193.6	1199.3	1203.4	1206.7	1190.3	1136.3	1004.5	851.4
30°	1255.0	1247.6	1239.4	1233.7	1237.8	1244.4	1251.7	1241.9	1193.6	1055.2	879.2
32.5°	1318.9	1309.8	1291.0	1280.4	1291.0	1295.9	1301.7	1296.7	1253.4	1110.1	907.1
35°	1396.6	1386.0	1366.3	1350.8	1369.6	1359.0	1356.5	1351.6	1309.8	1164.1	938.2
37.5°	1526.0	1510.4	1479.3	1444.9	1444.9	1422.0	1413.0	1398.3	1360.6	1212.4	968.5
40°	1675.8	1655.3	1615.2	1564.4	1517.8	1470.3	1464.6	1453.9	1420.4	1268.1	1002.9
42.5°	1840.3	1801.0	1745.4	1684.0	1608.7	1554.6	1541.5	1511.2	1478.5	1324.6	1037.2
45°	2022.9	1941.0	1860.0	1828.9	1704.4	1655.3	1630.8	1575.9	1539.1	1383.5	1073.3
47.5°	2052.4	1988.5	1934.5	1929.6	1793.7	1752.7	1724.9	1646.3	1604.6	1446.6	1110.9
50°	2036.0	1997.5	2003.2	1983.6	1859.2	1832.1	1810.9	1721.6	1669.2	1507.1	1145.3
52.5°	1967.2	1988.5	2021.3	1985.2	1921.4	1899.3	1888.6	1802.7	1729.8	1562.8	1176.4
55°	1885.4	1900.1	1970.5	2014.7	1993.4	1973.8	1964.0	1896.8	1789.6	1609.5	1205.1
57.5°	1765.8	1759.3	1837.1	2009.8	2068.7	2057.3	2046.6	1989.3	1845.2	1643.0	1223.1
60°	1586.6	1572.6	1670.9	1911.6	2093.3	2111.3	2106.4	2050.7	1887.8	1642.2	1215.7
62.5°	1276.3	1310.7	1446.6	1751.1	2103.9	2149.8	2140.8	2055.6	1901.7	1594.7	1169.0
65°	948.8	997.9	1131.4	1530.1	2089.2	2169.4	2144.9	1975.4	1837.1	1500.6	1066.7
67.5°	683.6	727.0	824.4	1259.1	1947.6	2079.4	2050.7	1844.4	1688.1	1367.2	925.1
70°	467.5	498.6	564.9	916.9	1662.7	1797.8	1779.8	1648.8	1453.1	1208.3	751.5
72.5°	329.9	343.0	385.6	605.0	1263.2	1410.5	1389.3	1356.5	1167.4	1004.5	584.5
75°	247.2	255.4	278.3	391.3	852.2	977.5	957.8	976.7	871.9	760.5	425.7
77.5°	93.3	101.5	158.0	249.7	504.3	600.1	580.4	591.9	484.6	383.9	212.0
80°	25.4	27.0	52.4	118.7	229.2	298.8	271.8	233.3	180.1	176.8	112.2
82.5°	10.6	12.3	23.7	63.9	81.9	81.9	68.8	85.1	68.8	82.7	54.0
85°	4.1	4.9	5.7	16.4	10.6	11.5	12.3	16.4	13.9	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°	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
2.5°	657.4	648.4	635.3	614.0	591.9	579.6	564.1	561.6	545.2	543.6	537.0
5°	661.5	642.6	609.1	568.1	528.0	496.9	474.0	461.7	438.0	438.0	431.4
7.5°	664.7	635.3	581.2	520.7	465.8	424.1	393.0	379.9	358.6	356.9	352.0
10°	665.6	626.3	551.0	472.4	405.2	362.7	332.4	317.6	298.8	297.2	293.9
12.5°	672.1	621.4	523.9	430.6	361.8	316.0	286.5	274.2	259.5	257.9	254.6
15°	682.8	621.4	501.0	395.4	323.4	280.8	255.4	244.0	233.3	231.7	230.0
17.5°	693.4	619.7	478.1	362.7	291.4	253.0	230.9	221.9	213.7	212.9	211.2
20°	703.2	618.9	455.2	334.8	266.9	230.0	212.9	204.7	198.1	198.1	197.3
22.5°	713.0	617.3	433.1	308.6	245.6	212.9	198.1	189.1	184.2	184.2	183.4
25°	727.8	617.3	412.6	286.5	228.4	199.8	185.0	178.5	174.4	173.6	173.6
27.5°	745.0	622.2	394.6	266.9	213.7	186.7	175.2	168.6	163.7	162.1	162.9
30°	763.8	626.3	378.2	249.7	199.8	176.8	164.5	158.0	153.1	151.5	152.3
32.5°	782.6	631.2	363.5	234.1	185.8	167.8	155.5	148.2	143.3	142.4	142.4
35°	803.1	636.1	348.7	221.0	174.4	158.8	147.4	139.2	135.9	134.3	135.1
37.5°	823.6	644.3	334.8	208.8	166.2	150.6	140.0	131.8	129.3	128.5	128.5
40°	848.1	656.6	329.1	200.6	158.8	143.3	134.3	126.1	123.6	123.6	123.6
42.5°	868.6	666.4	324.2	191.6	153.1	136.7	128.5	122.0	120.3	119.5	120.3
45°	889.1	675.4	317.6	183.4	145.7	130.2	123.6	117.1	115.4	115.4	115.4
47.5°	909.5	680.3	308.6	175.2	139.2	124.4	118.7	113.0	111.3	111.3	111.3
50°	925.9	684.4	295.5	166.2	131.8	119.5	113.8	108.1	106.4	106.4	106.4
52.5°	942.3	685.2	281.6	155.5	124.4	113.8	108.9	103.2	101.5	100.7	100.7
55°	957.0	684.4	265.2	143.3	116.2	107.2	103.2	98.2	95.0	91.7	93.3
57.5°	967.6	683.6	246.4	131.0	108.1	100.7	99.1	92.5	86.0	77.8	79.4
60°	963.6	674.6	225.9	115.4	99.1	94.1	94.1	85.1	73.7	69.6	70.4
62.5°	937.4	649.2	204.7	99.1	90.1	87.6	86.8	77.0	67.9	63.9	64.7
65°	858.8	585.3	173.6	84.3	81.0	80.2	80.2	71.2	63.0	58.1	58.9
67.5°	739.2	491.2	141.6	71.2	72.0	73.7	73.7	65.5	57.3	52.4	53.2
70°	592.7	383.9	113.0	61.4	62.2	64.7	66.3	58.9	51.6	46.7	46.7
72.5°	446.2	291.4	90.9	51.6	55.7	55.7	58.1	52.4	45.0	40.1	40.9
75°	323.4	208.8	72.0	43.4	48.3	47.5	47.5	44.2	38.5	35.2	35.2
77.5°	153.1	109.7	57.3	31.1	37.7	36.8	37.7	35.2	32.7	29.5	30.3
80°	75.3	54.0	36.8	22.1	26.2	27.0	29.5	27.8	27.0	24.6	24.6
82.5°	36.0	21.3	17.2	15.6	18.0	18.8	20.5	20.5	21.3	19.6	19.6
85°	9.8	5.7	7.4	9.8	11.5	12.3	13.9	14.7	14.7	13.9	14.7
87.5°	2.5	2.5	3.3	4.9	5.7	6.5	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)