

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: P798745

Luminaire Tested: **ARCH1-30-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798745
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: ARCH1-30-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4355 lumens
Efficiency: N/A
Efficacy: 132.0 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

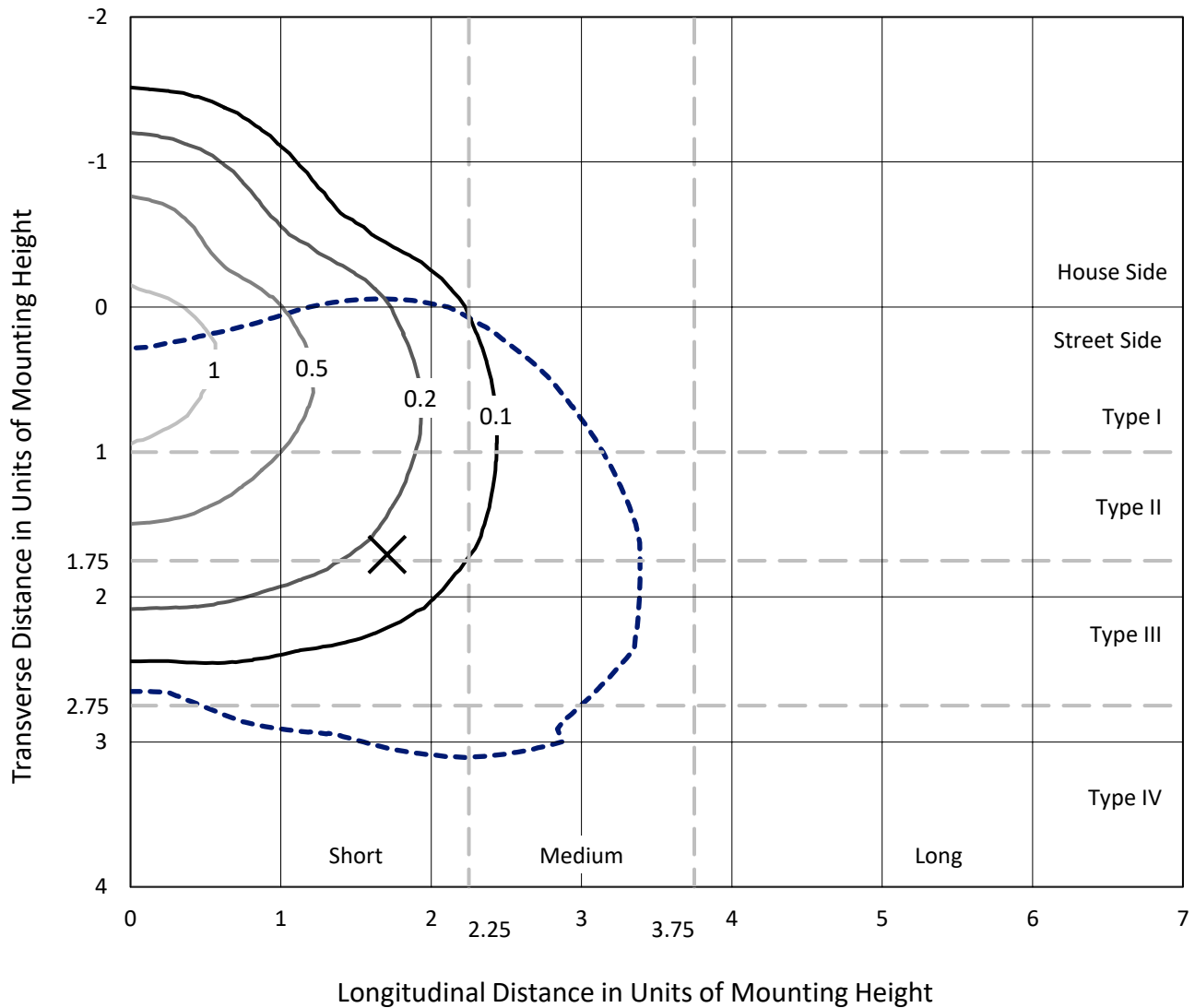


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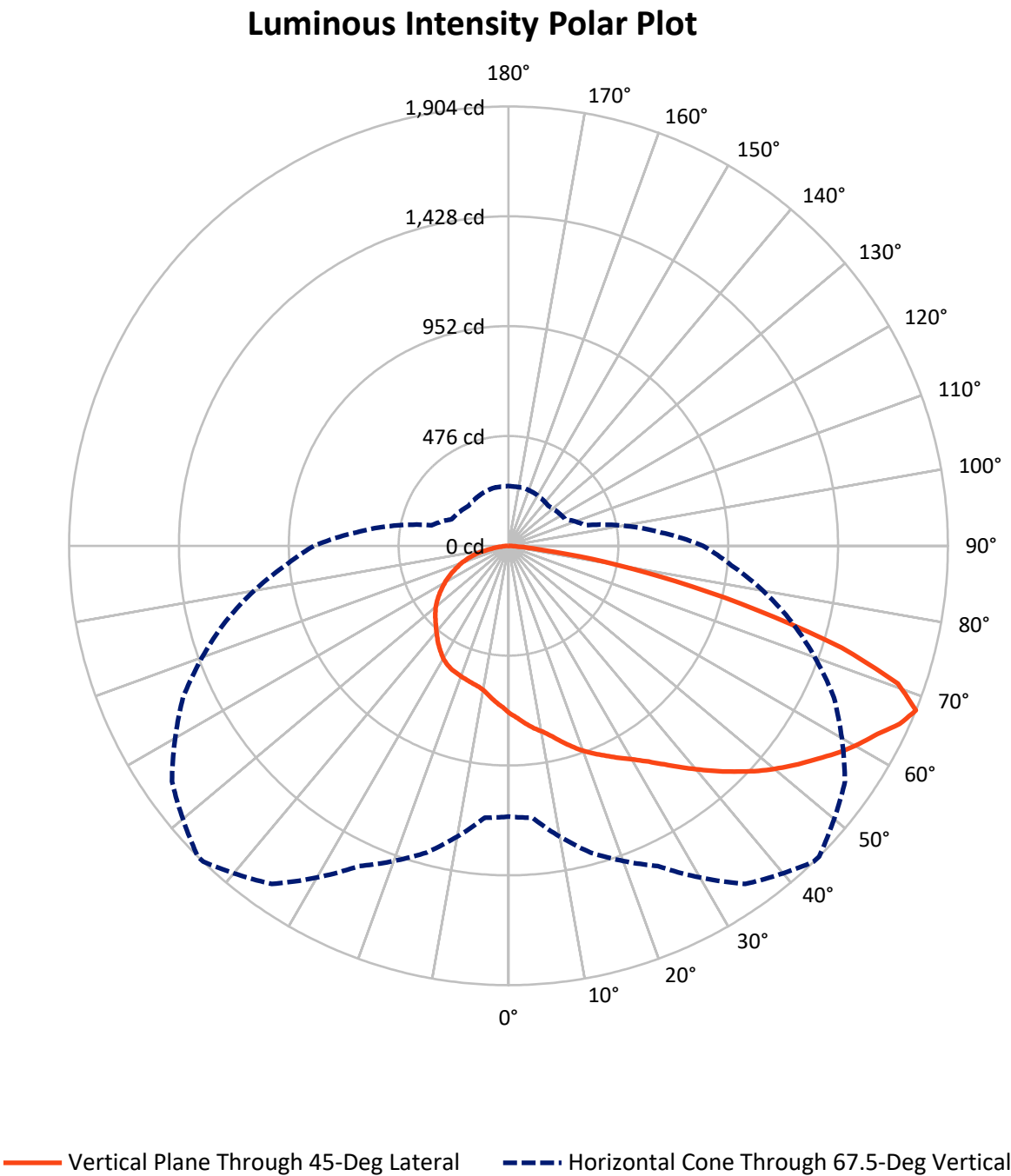
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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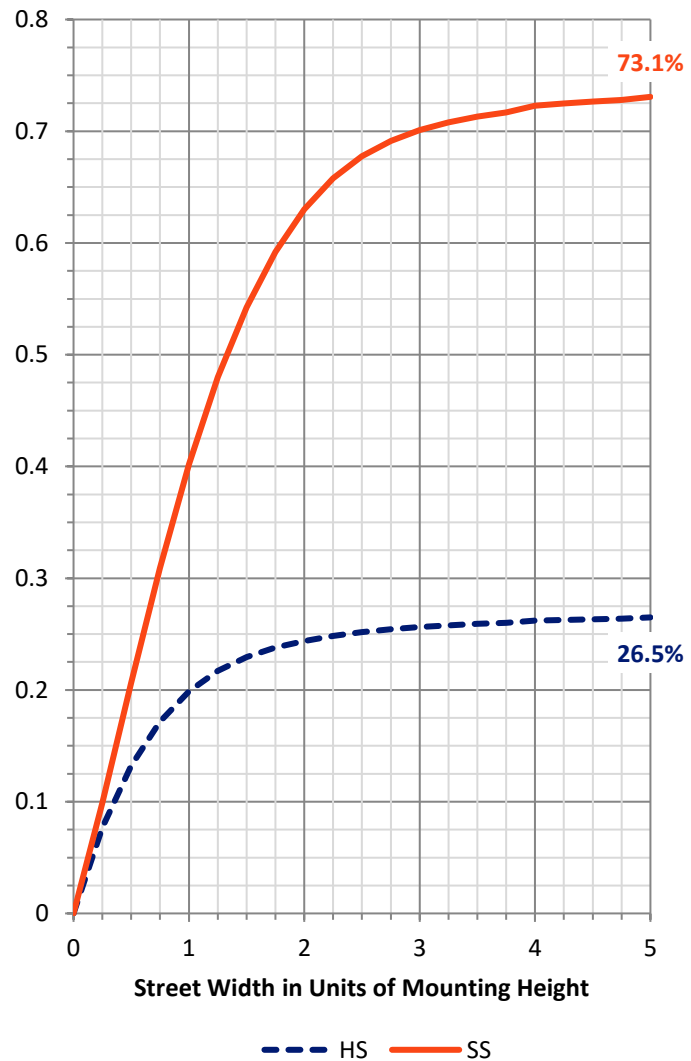
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.4	0.0	1163.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3191.6	0.0	3191.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	4355.0	0.0	4355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.6
10°-20°	214.8	4.9
20°-30°	370.8	8.5
30°-40°	546.8	12.6
40°-50°	740.8	17.0
50°-60°	905.5	20.8
60°-70°	933.9	21.4
70°-80°	511.5	11.7
80°-90°	61.3	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°	4355.0	100.0
0°-180°	4355.0	100.0

Coefficient of Utilization



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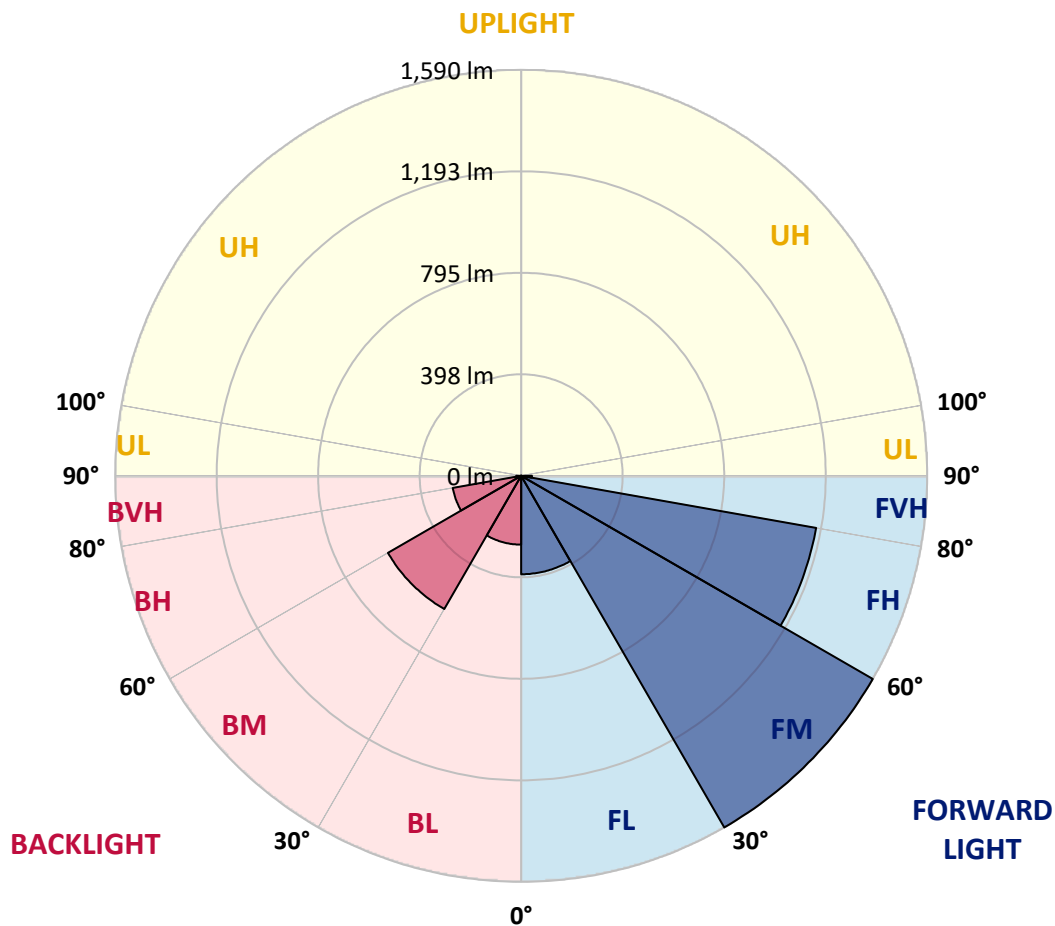
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.5	8.9			
FM	(30°-60°)	1590.5	36.5			
FH	(60°-80°)	1173.3	26.9			G1/1800
FVH	(80°-90°)	42.2	1.0			G1/100
BL	(0°-30°)	269.6	6.2	B1/500		
BM	(30°-60°)	602.6	13.8	B1/1000		
BH	(60°-80°)	272.1	6.2	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	758.1	757.5	758.8	754.2	748.2	747.5	747.5	743.6	738.9	729.6	722.4
5°	793.9	792.6	793.3	786.6	778.7	774.7	774.0	765.4	754.8	740.2	727.0
7.5°	827.1	825.7	825.1	817.8	805.9	799.2	798.6	786.0	773.4	750.9	731.6
10°	858.2	856.9	855.6	845.6	831.0	821.1	819.8	803.9	788.0	760.1	735.6
12.5°	898.0	895.3	894.0	882.1	860.9	850.3	848.3	827.1	807.2	773.4	743.6
15°	939.7	937.7	935.7	924.5	900.6	886.7	883.4	856.9	829.7	790.6	755.5
17.5°	970.9	968.9	968.9	958.9	937.1	921.2	918.5	886.7	852.9	806.5	764.8
20°	990.1	988.1	990.1	984.1	967.6	954.3	951.7	916.5	876.1	821.1	772.7
22.5°	1004.0	1002.0	1005.3	1002.7	990.8	982.8	980.8	946.4	900.0	836.3	780.7
25°	1028.5	1028.5	1028.5	1023.9	1012.6	1010.0	1010.0	980.1	930.4	856.2	792.6
27.5°	1077.6	1074.9	1071.6	1058.3	1039.1	1038.5	1042.4	1014.6	965.6	882.1	807.2
30°	1149.8	1148.5	1135.9	1108.1	1075.6	1072.3	1074.9	1051.7	1003.3	909.2	823.7
32.5°	1243.2	1238.6	1212.8	1171.0	1124.6	1109.4	1114.7	1090.2	1043.1	937.1	839.7
35°	1309.5	1310.8	1292.3	1254.5	1199.5	1159.1	1163.1	1133.2	1086.2	968.2	859.5
37.5°	1385.7	1390.4	1362.5	1334.0	1283.0	1214.1	1218.1	1177.6	1129.3	1007.3	880.7
40°	1491.1	1481.8	1434.8	1401.0	1344.6	1271.7	1275.1	1227.3	1179.0	1044.4	905.3
42.5°	1579.2	1562.7	1505.7	1462.6	1395.0	1332.7	1336.0	1281.0	1229.3	1085.5	932.4
45°	1705.8	1660.1	1577.9	1556.7	1446.7	1392.4	1395.7	1338.0	1282.3	1129.3	961.6
47.5°	1779.4	1706.5	1654.1	1642.9	1503.7	1454.0	1458.0	1398.3	1339.3	1179.0	992.1
50°	1774.7	1727.7	1712.4	1684.6	1554.1	1511.6	1515.6	1460.6	1397.0	1228.0	1021.2
52.5°	1744.3	1752.9	1744.9	1698.5	1604.4	1567.3	1572.0	1522.2	1456.0	1273.7	1048.4
55°	1791.3	1797.3	1782.0	1721.1	1660.1	1623.0	1628.3	1587.2	1514.3	1314.2	1071.6
57.5°	1847.6	1826.4	1811.2	1760.8	1717.7	1683.3	1689.3	1653.5	1564.7	1346.6	1089.5
60°	1845.0	1800.6	1815.8	1763.5	1756.8	1739.0	1744.3	1707.8	1603.1	1370.5	1096.8
62.5°	1709.1	1685.3	1762.1	1744.3	1788.7	1788.7	1795.3	1740.9	1626.3	1380.4	1092.8
65°	1473.2	1474.5	1609.7	1683.9	1826.4	1856.9	1862.2	1761.5	1613.0	1351.3	1055.7
67.5°	1173.7	1182.3	1376.5	1530.9	1788.7	1903.3	1904.0	1780.0	1556.0	1269.1	969.5
70°	858.9	865.5	1094.8	1282.3	1610.4	1800.6	1790.0	1727.7	1432.1	1125.9	835.0
72.5°	580.5	586.5	822.4	984.8	1321.4	1533.5	1510.3	1526.9	1220.7	925.1	671.3
75°	390.3	397.6	585.2	704.5	972.2	1164.4	1112.7	1156.4	944.4	700.5	489.7
77.5°	245.9	250.5	371.8	461.9	664.0	792.6	740.9	741.6	544.1	377.1	263.1
80°	156.4	157.7	225.3	266.4	384.4	476.5	421.5	342.6	245.2	200.1	157.1
82.5°	90.8	88.8	134.5	150.4	182.9	180.9	149.8	141.8	107.4	100.1	80.2
85°	36.4	33.8	59.0	55.0	55.7	59.0	43.7	43.7	35.1	27.2	19.9
87.5°	7.3	7.3	8.0	7.3	7.3	8.0	6.0	6.0	5.3	5.3	5.3
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°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	721.0	719.7	716.4	707.8	703.1	700.5	696.5	695.2	694.5	695.2	697.2
5°	723.0	718.4	709.1	695.2	685.9	679.9	673.3	670.7	668.7	668.7	670.7
7.5°	724.3	717.1	701.1	680.6	667.4	658.1	650.1	646.8	646.1	648.1	648.8
10°	725.0	714.4	691.9	666.0	648.8	636.9	628.9	626.9	628.9	632.9	633.6
12.5°	729.6	715.1	686.6	656.1	635.5	623.6	617.6	617.6	622.9	630.2	630.9
15°	737.6	719.7	683.9	648.1	626.9	616.3	614.3	617.6	625.6	636.9	638.2
17.5°	743.6	722.4	678.0	637.5	615.7	609.0	612.3	620.3	631.6	646.8	648.1
20°	747.5	722.4	669.3	624.9	604.4	603.1	612.3	624.9	636.9	654.8	656.7
22.5°	751.5	721.0	659.4	609.7	591.8	595.8	613.0	628.9	640.8	660.1	663.4
25°	758.8	723.0	649.5	594.5	578.5	589.8	612.3	631.6	644.2	664.0	669.3
27.5°	768.7	727.7	642.2	580.5	565.3	580.5	607.7	630.9	644.2	663.4	669.3
30°	779.3	733.0	633.6	565.3	550.1	567.3	597.8	623.6	638.9	656.7	664.0
32.5°	790.6	738.9	626.3	548.7	531.5	549.4	583.2	612.3	628.9	645.5	653.4
35°	805.9	749.5	622.3	535.5	514.9	530.8	564.6	597.8	615.7	630.9	640.2
37.5°	824.4	762.8	620.3	522.2	497.0	510.3	544.7	579.9	599.1	611.7	620.3
40°	845.6	779.3	619.6	509.6	479.1	489.1	524.2	559.3	577.9	587.8	595.1
42.5°	869.5	797.9	618.3	497.0	461.2	469.2	504.3	538.8	554.7	563.3	569.9
45°	894.7	816.5	615.7	481.8	442.0	451.3	483.8	514.3	530.8	538.1	545.4
47.5°	919.8	835.0	610.4	464.6	424.8	433.4	461.9	488.4	501.7	508.3	515.6
50°	944.4	851.6	597.8	444.7	406.9	414.9	436.7	454.6	464.6	469.9	477.2
52.5°	966.2	862.8	579.9	421.5	389.0	393.0	407.6	422.8	430.8	431.4	438.1
55°	984.8	868.8	554.0	397.6	369.8	370.5	378.4	390.3	393.7	391.0	395.6
57.5°	995.4	865.5	525.5	373.1	349.9	347.3	353.2	359.2	359.9	353.2	357.9
60°	998.0	850.3	488.4	348.6	330.0	322.7	324.7	323.4	322.1	319.4	323.4
62.5°	984.8	817.8	447.3	324.7	308.8	297.6	296.9	296.2	298.2	298.9	299.5
65°	936.4	756.8	398.3	300.2	286.3	271.0	270.4	278.3	281.0	277.0	278.3
67.5°	843.0	663.4	344.6	271.7	257.8	244.5	249.8	254.5	259.1	257.8	259.1
70°	710.4	544.7	295.6	239.9	226.6	219.4	225.3	229.3	230.0	228.6	230.0
72.5°	558.7	425.5	249.8	207.4	195.5	192.2	199.5	202.8	208.8	211.4	212.1
75°	403.6	314.1	204.8	172.3	162.4	162.4	169.0	175.0	180.3	176.9	175.0
77.5°	225.3	187.5	147.1	118.6	120.6	129.9	132.5	139.2	144.5	143.8	142.5
80°	136.5	117.3	99.4	76.9	76.2	83.5	100.7	112.0	114.6	108.7	108.0
82.5°	70.9	61.6	53.0	43.1	47.7	55.7	58.3	70.2	77.5	74.9	78.2
85°	17.9	17.2	19.2	19.9	24.5	27.2	29.8	35.1	23.2	11.3	11.3
87.5°	5.3	5.3	6.6	6.6	8.6	10.6	9.9	9.9	5.3	0.7	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)