

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: P798709

Luminaire Tested: **ARCH1-30-722-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-30-722-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

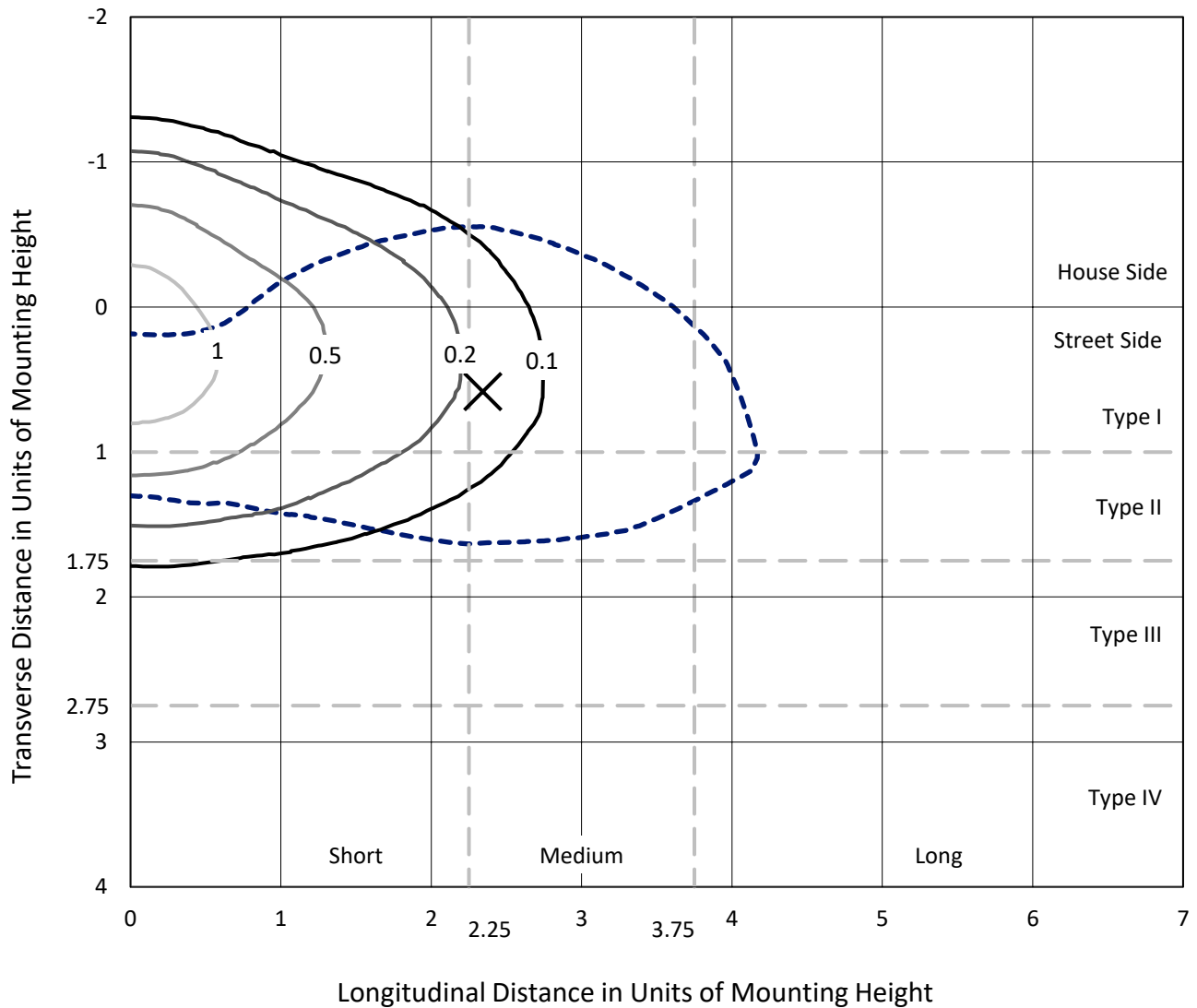
Lumens per Lamp: N/A  
Luminaire Lumens: 3959 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

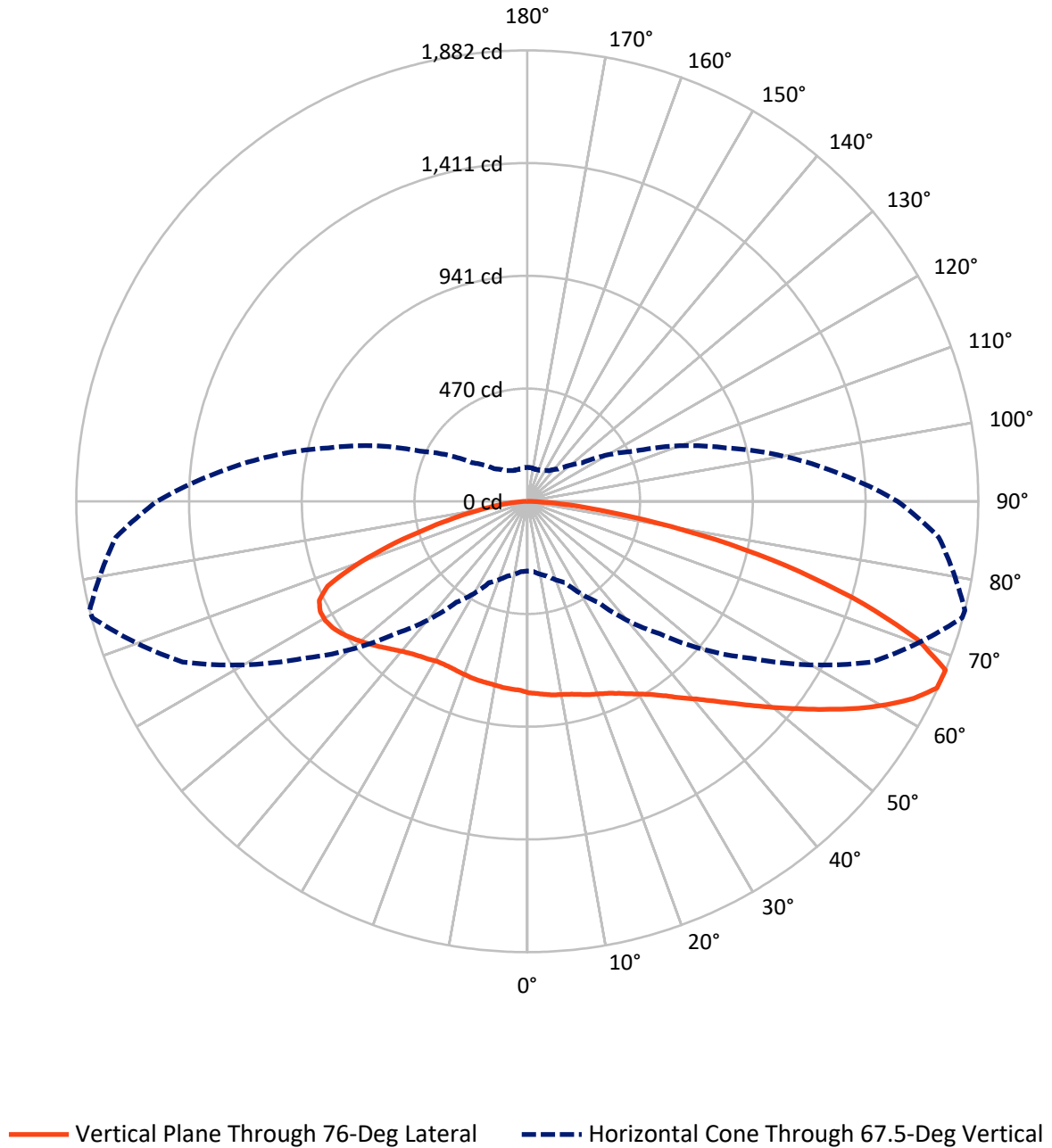
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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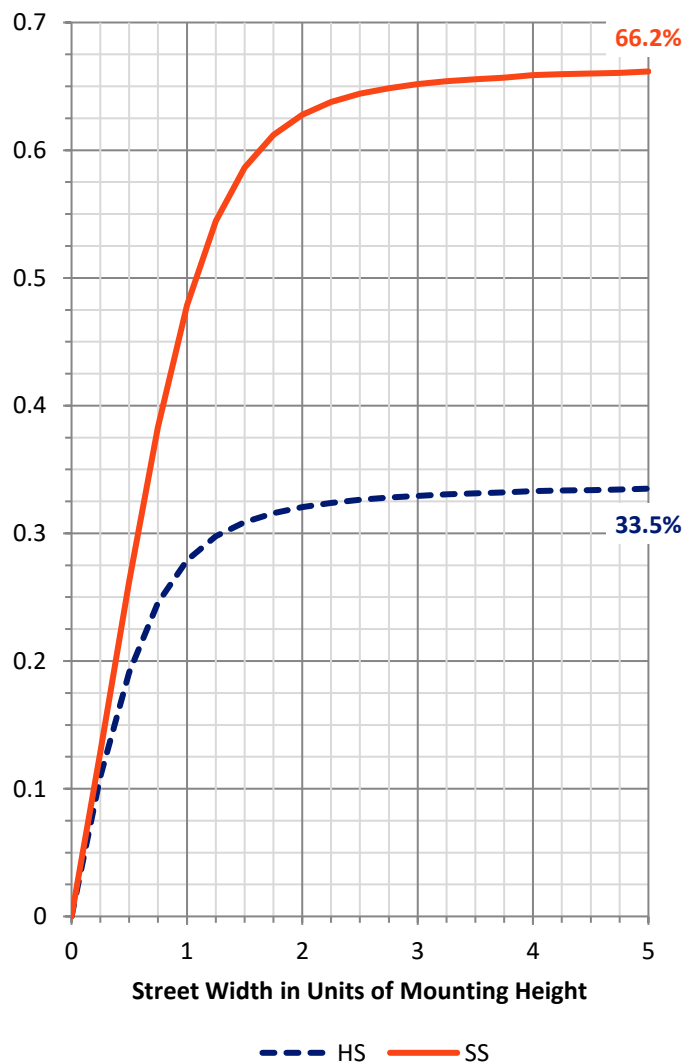
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1337.8	0.0	1337.8
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	2621.2	0.0	2621.2
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	3959.0	0.0	3959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	1.9
10°-20°	235.8	6.0
20°-30°	400.5	10.1
30°-40°	569.9	14.4
40°-50°	719.8	18.2
50°-60°	779.3	19.7
60°-70°	724.9	18.3
70°-80°	389.3	9.8
80°-90°	62.4	1.6
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°	3959.0	100.0
0°-180°	3959.0	100.0

**Coefficient of Utilization**



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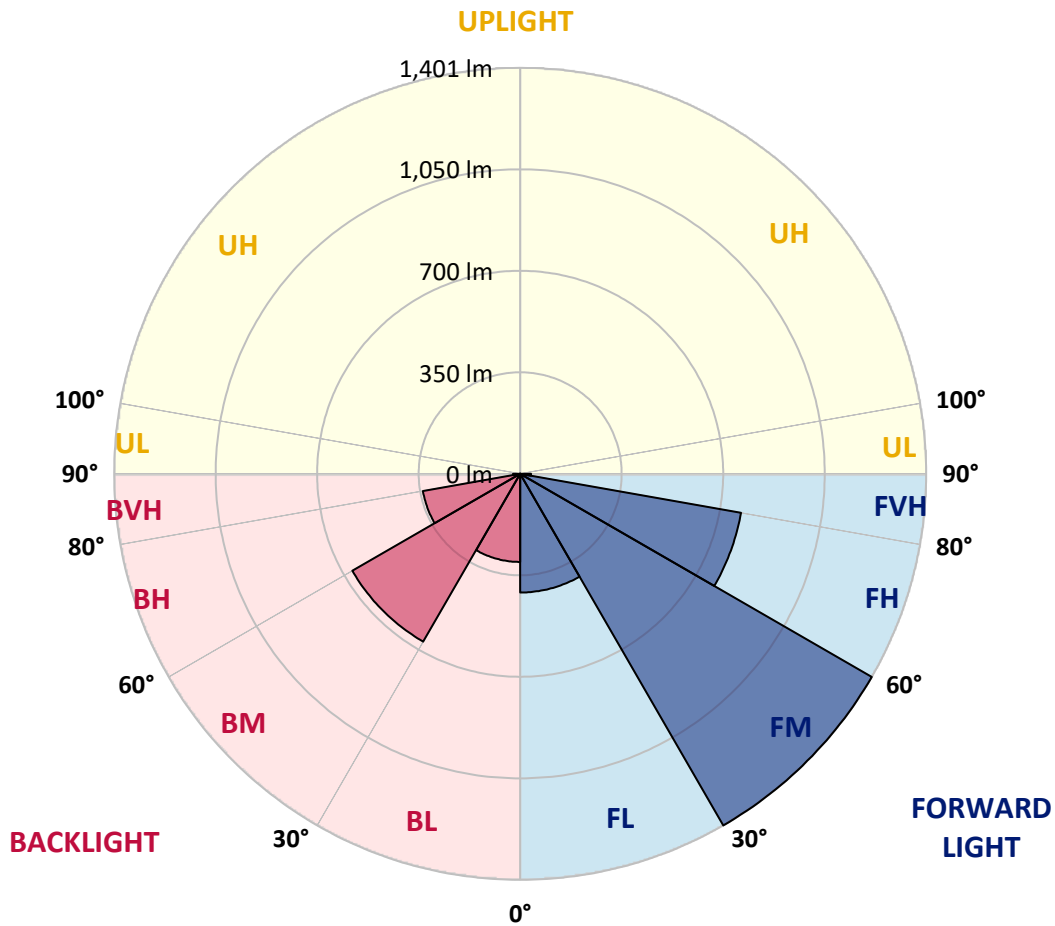
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.4	10.3			
FM (30°-60°)	1400.5	35.4			
FH (60°-80°)	773.5	19.5			G1/1800
FVH (80°-90°)	37.7	1.0			G1/100
BL (0°-30°)	304.0	7.7	B1/500		
BM (30°-60°)	668.5	16.9	B1/1000		
BH (60°-80°)	340.6	8.6	B1/500		G1/500
BVH (80°-90°)	24.6	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	824.0	822.5	816.6	817.3	817.3	816.6	807.8	804.1	804.1	803.4	795.3
5°	853.4	851.2	844.5	843.1	840.1	836.5	822.5	814.4	810.7	810.0	799.0
7.5°	887.9	885.0	876.9	872.5	865.1	855.6	837.9	825.4	816.6	815.9	800.4
10°	922.5	919.5	910.0	901.9	891.6	876.2	853.4	835.0	821.0	819.6	801.2
12.5°	963.6	960.7	948.9	938.6	923.2	902.6	872.5	847.5	828.4	826.2	803.4
15°	1007.0	1002.6	990.8	979.1	959.9	933.5	897.5	864.4	840.1	836.5	810.0
17.5°	1043.0	1037.1	1027.6	1015.8	994.5	963.6	922.5	881.3	851.2	848.2	816.6
20°	1073.9	1069.5	1059.2	1048.1	1025.4	991.6	946.0	898.2	861.5	857.8	821.8
22.5°	1103.3	1097.4	1091.5	1083.4	1058.4	1021.0	973.2	918.8	874.7	870.3	828.4
25°	1137.1	1130.5	1128.3	1123.9	1094.5	1056.2	1006.3	944.5	893.1	887.9	840.1
27.5°	1179.0	1171.6	1167.2	1167.2	1131.9	1092.2	1041.5	974.6	914.4	910.0	854.8
30°	1223.1	1214.3	1207.6	1207.6	1168.0	1128.3	1076.1	1004.8	938.6	933.5	873.9
32.5°	1262.0	1253.2	1245.9	1245.1	1204.0	1164.3	1112.1	1037.9	968.0	961.4	897.5
35°	1292.2	1284.1	1277.5	1278.9	1240.0	1201.0	1152.5	1082.0	1004.8	997.4	928.3
37.5°	1310.6	1307.6	1303.9	1309.1	1273.1	1236.3	1194.4	1124.6	1046.7	1040.1	966.6
40°	1320.1	1317.9	1332.6	1339.2	1301.0	1267.9	1236.3	1168.7	1092.2	1084.9	1010.7
42.5°	1334.1	1352.4	1358.3	1356.9	1321.6	1292.2	1274.5	1216.5	1145.9	1139.3	1063.6
45°	1284.1	1279.7	1312.0	1329.7	1323.0	1307.6	1310.6	1273.8	1208.4	1201.8	1124.6
47.5°	1217.2	1211.3	1229.7	1273.1	1298.8	1313.5	1342.9	1333.3	1280.4	1274.5	1195.9
50°	1076.1	1084.2	1152.5	1210.6	1261.3	1312.0	1370.1	1397.3	1359.8	1353.9	1272.3
52.5°	919.5	927.6	998.9	1132.7	1215.7	1301.0	1389.9	1461.2	1445.8	1439.2	1353.9
55°	805.6	823.2	904.1	1001.1	1151.1	1266.5	1401.7	1526.7	1538.4	1532.5	1442.9
57.5°	692.4	705.6	766.6	852.6	1062.8	1206.2	1401.0	1587.7	1635.4	1629.6	1533.3
60°	559.4	576.3	624.8	717.4	945.2	1134.1	1380.4	1635.4	1728.8	1724.4	1620.7
62.5°	468.2	473.4	507.9	588.0	793.8	1043.0	1334.1	1661.2	1813.3	1810.4	1699.4
65°	377.1	377.8	409.4	476.3	647.6	929.8	1255.4	1651.6	1877.3	1878.7	1756.0
67.5°	291.1	294.7	323.4	374.1	514.5	782.8	1143.0	1586.9	1878.0	1881.7	1723.6
70°	201.4	204.3	247.7	297.0	397.6	624.0	990.8	1415.7	1723.6	1726.6	1545.0
72.5°	141.9	143.3	189.6	237.4	310.9	470.4	747.5	1170.9	1469.3	1471.5	1299.5
75°	105.8	107.3	133.8	180.1	238.1	325.6	510.8	896.7	1173.8	1173.8	1026.1
77.5°	75.0	75.7	86.7	124.2	158.8	219.8	307.2	587.3	861.5	862.9	747.5
80°	50.7	51.5	56.6	83.8	99.2	119.1	166.9	308.0	543.2	545.4	474.8
82.5°	26.5	27.9	31.6	42.6	50.0	66.2	86.0	156.6	300.6	306.5	285.2
85°	10.3	10.3	11.8	14.0	18.4	25.7	39.7	59.5	136.0	140.4	125.7
87.5°	3.7	3.7	4.4	4.4	5.1	5.9	6.6	8.8	15.4	15.4	14.7
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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	792.4	792.4	788.7	790.2	789.4	787.9	786.5	788.7	786.5	781.3	780.6
5°	793.8	792.4	786.5	785.7	783.5	780.6	776.9	778.4	774.7	770.3	769.6
7.5°	794.6	791.6	783.5	780.6	776.2	770.3	764.4	764.4	759.3	754.9	754.1
10°	793.1	789.4	778.4	772.5	764.4	755.6	747.5	745.3	739.4	734.3	734.3
12.5°	793.8	788.7	774.7	765.2	754.1	743.1	732.8	729.9	724.7	719.6	718.9
15°	798.2	790.9	773.2	760.8	744.6	732.1	721.1	718.9	714.4	710.8	710.8
17.5°	802.6	793.1	771.0	753.4	733.6	719.6	709.3	709.3	706.4	704.2	704.2
20°	804.9	793.8	766.6	743.1	720.3	705.6	696.1	697.5	696.8	696.1	696.1
22.5°	810.0	795.3	763.0	733.6	706.4	690.9	682.1	684.3	683.6	683.6	684.3
25°	818.1	799.0	760.0	724.7	693.1	676.2	666.7	668.1	668.1	668.1	668.1
27.5°	829.1	806.3	759.3	716.7	679.9	660.8	649.0	649.0	646.1	646.8	647.6
30°	846.0	820.3	760.8	709.3	665.9	641.7	627.7	625.5	624.8	626.2	627.0
32.5°	866.6	839.4	769.6	704.2	651.2	620.4	602.7	602.0	599.8	599.8	599.8
35°	892.3	857.8	777.7	703.4	636.5	597.6	578.5	576.3	571.1	568.9	568.9
37.5°	925.4	886.4	787.2	698.3	624.0	575.5	552.7	545.4	539.5	538.8	538.8
40°	965.8	918.8	801.2	692.4	610.8	552.7	522.6	510.1	510.8	513.8	513.8
42.5°	1013.6	958.5	818.8	689.5	591.7	529.2	487.3	472.6	477.8	480.7	481.4
45°	1069.5	1005.5	838.7	685.8	574.1	502.8	449.8	431.5	433.7	434.4	435.1
47.5°	1134.1	1057.7	859.2	682.8	554.2	469.7	408.7	384.4	383.7	379.3	380.7
50°	1201.8	1112.8	880.6	677.7	530.0	430.7	365.3	336.6	330.8	324.1	324.9
52.5°	1273.8	1169.4	900.4	669.6	499.8	391.0	324.1	293.3	281.5	274.2	275.6
55°	1353.2	1227.5	919.5	657.1	468.2	351.3	287.4	255.8	241.1	235.2	235.9
57.5°	1426.0	1283.4	933.5	641.7	433.7	315.3	255.1	224.2	214.6	213.9	214.6
60°	1496.5	1330.4	939.4	620.4	398.4	282.3	224.9	201.4	194.8	198.5	199.2
62.5°	1556.1	1360.5	936.4	591.7	362.4	250.6	200.7	183.8	179.3	186.7	187.4
65°	1590.6	1370.1	915.8	550.5	323.4	219.8	177.9	159.5	157.3	161.7	163.9
67.5°	1545.0	1310.6	860.0	493.9	280.0	191.1	155.8	141.1	137.5	141.1	141.1
70°	1369.4	1135.6	727.7	404.3	232.3	163.2	135.2	125.0	122.0	125.0	124.2
72.5°	1140.8	944.5	573.3	315.3	183.0	137.5	117.6	108.0	105.1	102.2	100.7
75°	885.0	717.4	416.0	231.5	138.2	110.3	98.5	89.7	82.3	85.3	83.8
77.5°	648.3	503.5	294.7	160.2	99.2	85.3	77.2	70.6	65.4	71.3	70.6
80°	417.5	325.6	197.0	107.3	68.4	59.5	56.6	52.9	58.1	75.7	77.2
82.5°	255.1	206.5	117.6	69.8	44.8	39.7	36.8	36.8	59.5	65.4	66.2
85°	113.9	109.5	63.9	36.0	25.0	22.8	20.6	26.5	24.3	17.6	18.4
87.5°	18.4	19.1	14.0	12.5	9.6	9.6	7.4	5.1	3.7	2.2	2.2
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)