

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: P798725

Luminaire Tested: **ARCH1-30-727-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798725  
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: ARCH1-30-727-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4366 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

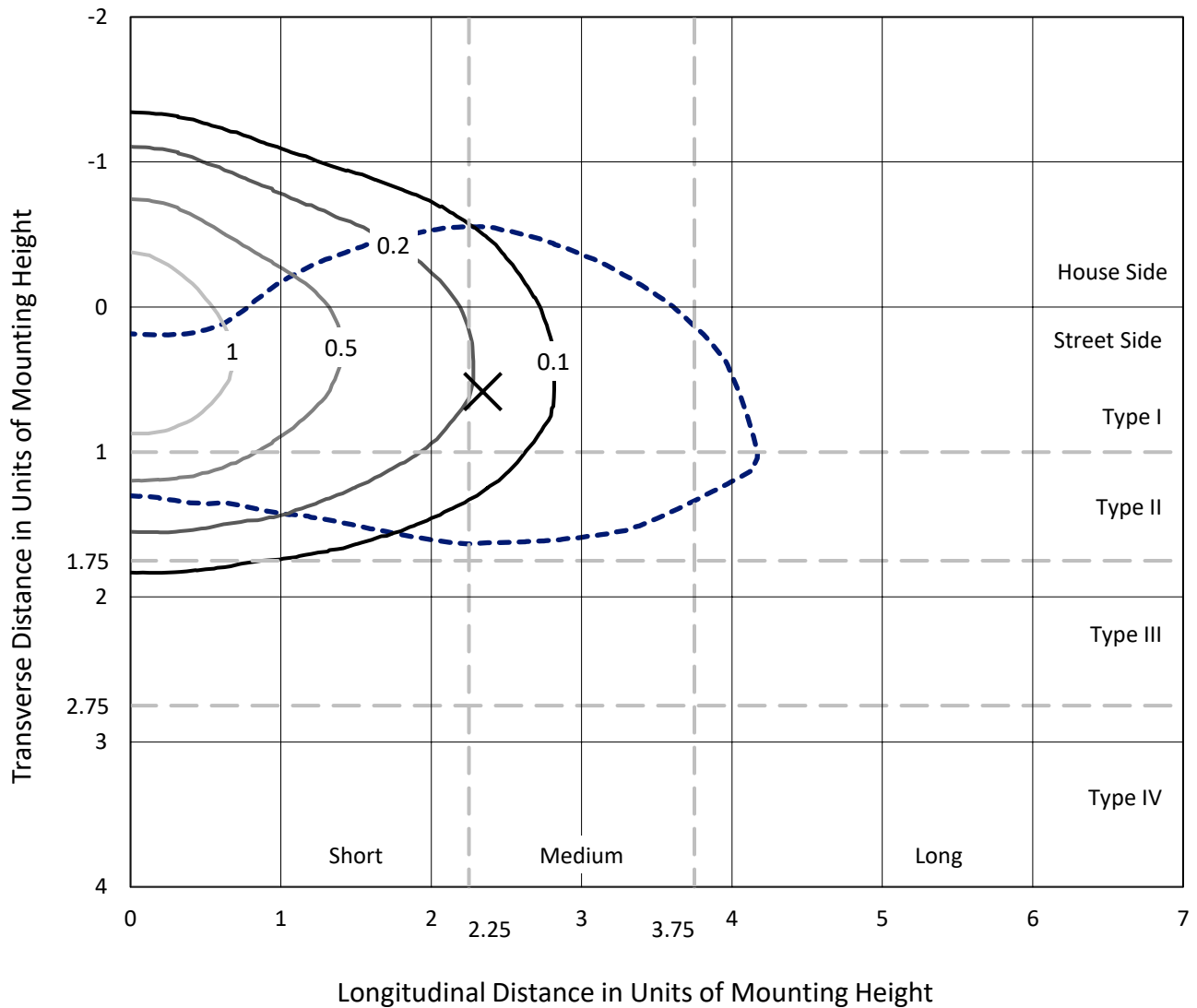
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P798725  
 CATALOG NUMBER: ARCH1-30-727-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

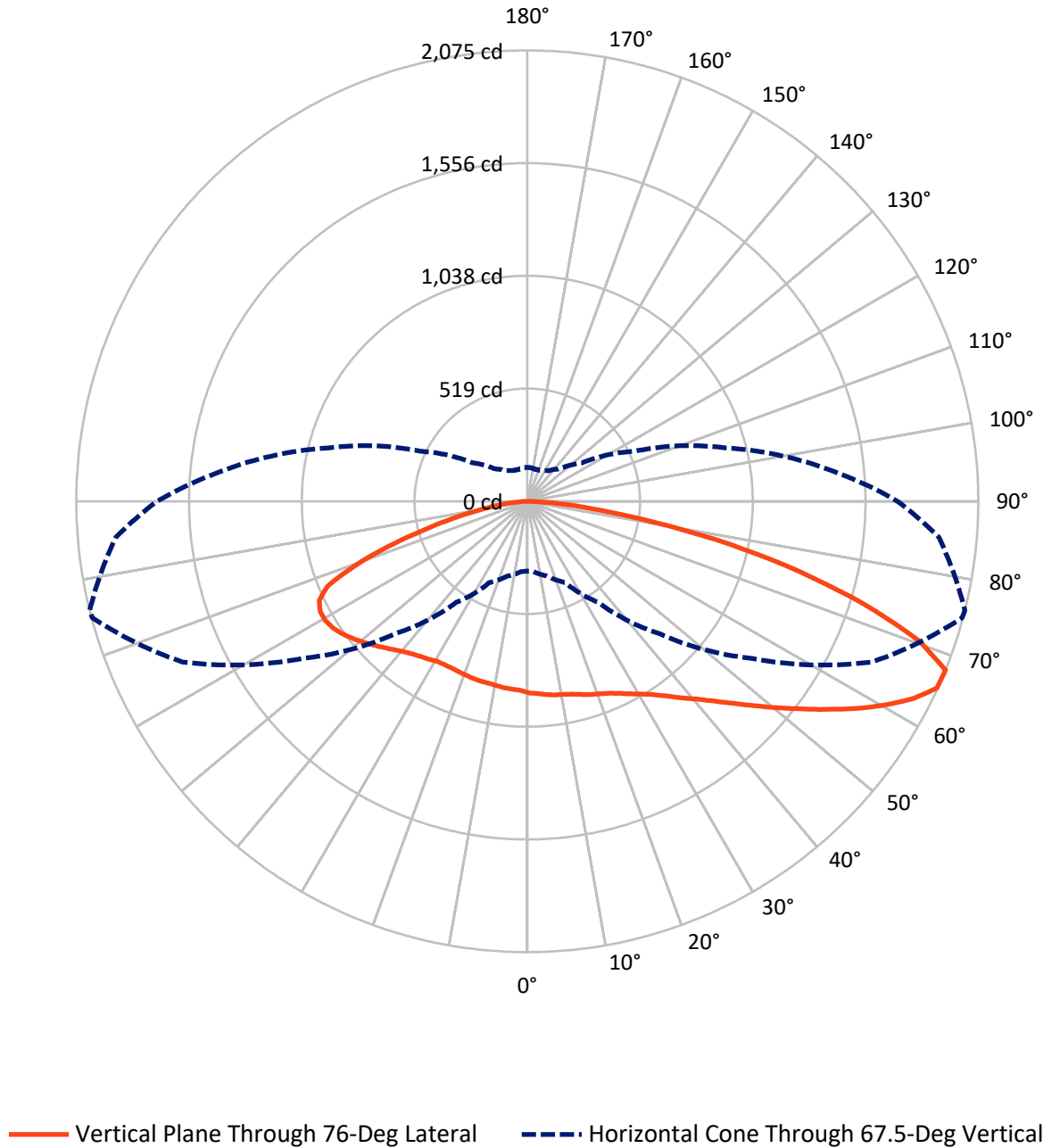
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P798725  
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### Luminous Intensity Polar Plot



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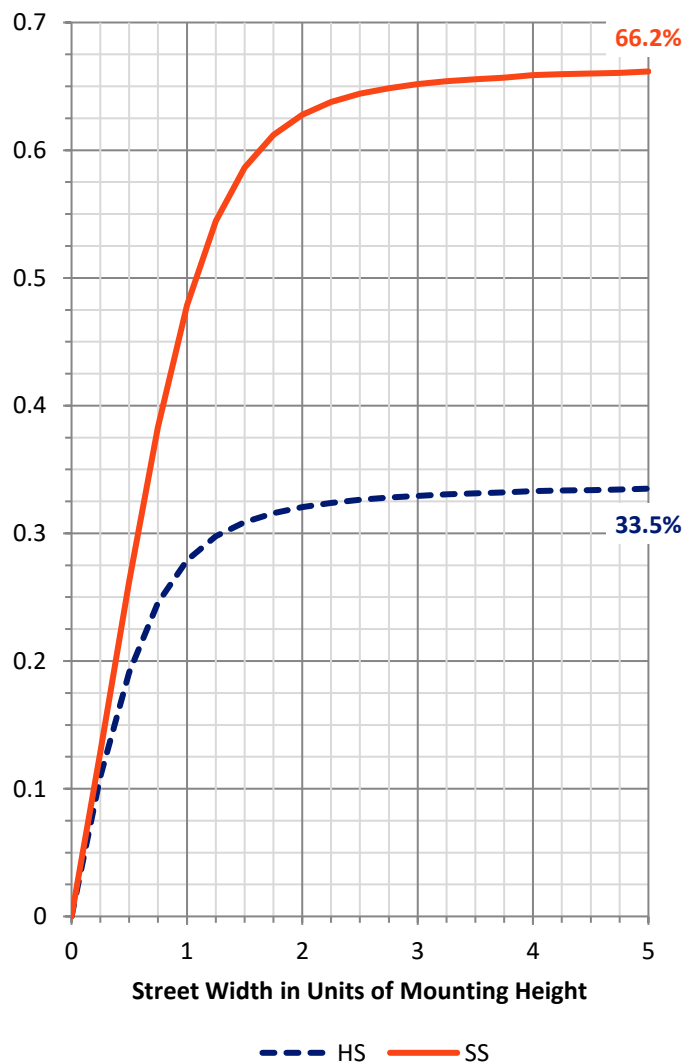
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1475.3	0.0	1475.3
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	2890.7	0.0	2890.7
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	4366.0	0.0	4366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	1.9
10°-20°	260.0	6.0
20°-30°	441.7	10.1
30°-40°	628.5	14.4
40°-50°	793.8	18.2
50°-60°	859.4	19.7
60°-70°	799.4	18.3
70°-80°	429.3	9.8
80°-90°	68.8	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°	4366.0	100.0
0°-180°	4366.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P798725

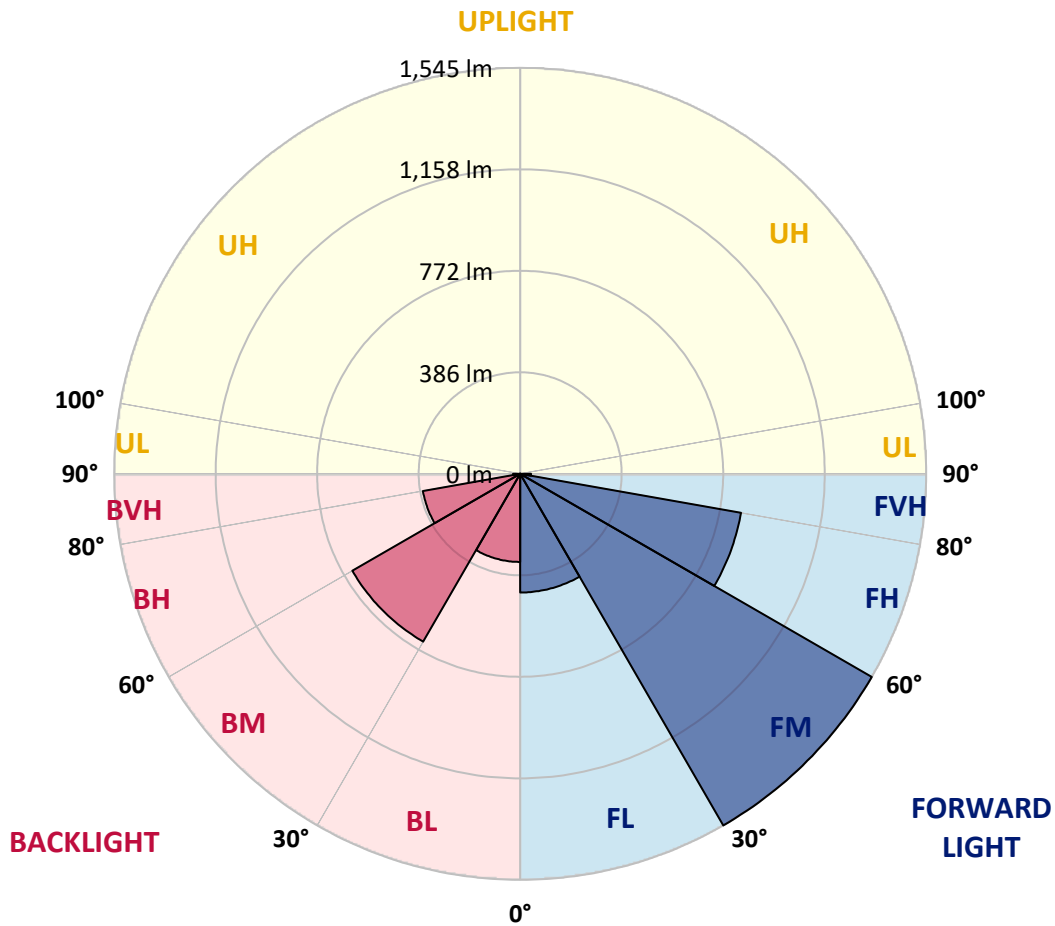
CATALOG NUMBER: ARCH1-30-727-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.5	10.3			
FM (30°-60°)	1544.5	35.4			
FH (60°-80°)	853.1	19.5			G1/1800
FVH (80°-90°)	41.6	1.0			G1/100
BL (0°-30°)	335.3	7.7	B1/500		
BM (30°-60°)	737.2	16.9	B1/1000		
BH (60°-80°)	375.6	8.6	B1/500		G1/500
BVH (80°-90°)	27.2	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



REPORT NUMBER: P798725  
 CATALOG NUMBER: ARCH1-30-727-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9
2.5°	908.7	907.1	900.6	901.4	901.4	900.6	890.8	886.8	886.8	886.0	877.1
5°	941.1	938.7	931.4	929.7	926.5	922.5	907.1	898.1	894.1	893.3	881.1
7.5°	979.2	976.0	967.0	962.2	954.1	943.5	924.1	910.3	900.6	899.8	882.7
10°	1017.3	1014.0	1003.5	994.6	983.2	966.2	941.1	920.8	905.4	903.8	883.5
12.5°	1062.7	1059.4	1046.5	1035.1	1018.1	995.4	962.2	934.6	913.5	911.1	886.0
15°	1110.5	1105.6	1092.7	1079.7	1058.6	1029.4	989.7	953.3	926.5	922.5	893.3
17.5°	1150.2	1143.7	1133.2	1120.2	1096.7	1062.7	1017.3	971.9	938.7	935.4	900.6
20°	1184.3	1179.4	1168.1	1155.9	1130.8	1093.5	1043.2	990.5	950.0	946.0	906.2
22.5°	1216.7	1210.2	1203.7	1194.8	1167.3	1125.9	1073.2	1013.2	964.6	959.7	913.5
25°	1254.0	1246.7	1244.3	1239.4	1207.0	1164.8	1109.7	1041.6	984.9	979.2	926.5
27.5°	1300.2	1292.1	1287.2	1287.2	1248.3	1204.5	1148.6	1074.8	1008.4	1003.5	942.7
30°	1348.8	1339.1	1331.8	1331.8	1288.0	1244.3	1186.7	1108.1	1035.1	1029.4	963.8
32.5°	1391.8	1382.1	1374.0	1373.1	1327.7	1284.0	1226.4	1144.6	1067.5	1060.3	989.7
35°	1425.0	1416.1	1408.8	1410.4	1367.5	1324.5	1271.0	1193.2	1108.1	1100.0	1023.8
37.5°	1445.3	1442.0	1438.0	1443.7	1403.9	1363.4	1317.2	1240.2	1154.3	1147.0	1065.9
40°	1455.8	1453.4	1469.6	1476.9	1434.7	1398.3	1363.4	1288.8	1204.5	1196.4	1114.6
42.5°	1471.2	1491.5	1498.0	1496.3	1457.4	1425.0	1405.6	1341.5	1263.7	1256.4	1172.9
45°	1416.1	1411.2	1446.9	1466.4	1459.1	1442.0	1445.3	1404.8	1332.6	1325.3	1240.2
47.5°	1342.3	1335.9	1356.1	1403.9	1432.3	1448.5	1480.9	1470.4	1412.0	1405.6	1318.8
50°	1186.7	1195.6	1271.0	1335.0	1391.0	1446.9	1510.9	1540.9	1499.6	1493.1	1403.1
52.5°	1014.0	1023.0	1101.6	1249.1	1340.7	1434.7	1532.8	1611.5	1594.4	1587.1	1493.1
55°	888.4	907.9	997.0	1104.0	1269.4	1396.6	1545.8	1683.6	1696.6	1690.1	1591.2
57.5°	763.6	778.2	845.4	940.3	1172.1	1330.2	1545.0	1750.9	1803.6	1797.1	1690.9
60°	616.9	635.5	689.0	791.1	1042.4	1250.7	1522.3	1803.6	1906.5	1901.6	1787.4
62.5°	516.3	522.0	560.1	648.5	875.4	1150.2	1471.2	1831.9	1999.7	1996.5	1874.1
65°	415.8	416.6	451.5	525.3	714.1	1025.4	1384.5	1821.4	2070.2	2071.9	1936.5
67.5°	321.0	325.0	356.7	412.6	567.4	863.3	1260.5	1750.1	2071.1	2075.1	1900.8
70°	222.1	225.3	273.2	327.5	438.5	688.2	1092.7	1561.2	1900.8	1904.1	1703.9
72.5°	156.4	158.1	209.1	261.8	342.9	518.8	824.4	1291.3	1620.4	1622.8	1433.1
75°	116.7	118.3	147.5	198.6	262.6	359.1	563.4	988.9	1294.5	1294.5	1131.6
77.5°	82.7	83.5	95.6	137.0	175.1	242.4	338.8	647.7	950.0	951.6	824.4
80°	55.9	56.7	62.4	92.4	109.4	131.3	184.0	339.6	599.0	601.5	523.6
82.5°	29.2	30.8	34.9	47.0	55.1	73.0	94.8	172.7	331.5	338.0	314.5
85°	11.3	11.3	13.0	15.4	20.3	28.4	43.8	65.7	150.0	154.8	138.6
87.5°	4.1	4.1	4.9	4.9	5.7	6.5	7.3	9.7	17.0	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798725

CATALOG NUMBER: ARCH1-30-727-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9	881.9
2.5°	873.8	873.8	869.8	871.4	870.6	869.0	867.3	869.8	867.3	861.7	860.8
5°	875.4	873.8	867.3	866.5	864.1	860.8	856.8	858.4	854.4	849.5	848.7
7.5°	876.2	873.0	864.1	860.8	856.0	849.5	843.0	843.0	837.3	832.5	831.7
10°	874.6	870.6	858.4	851.9	843.0	833.3	824.4	821.9	815.5	809.8	809.8
12.5°	875.4	869.8	854.4	843.8	831.7	819.5	808.2	804.9	799.2	793.6	792.8
15°	880.3	872.2	852.7	839.0	821.1	807.3	795.2	792.8	787.9	783.8	783.8
17.5°	885.2	874.6	850.3	830.9	809.0	793.6	782.2	782.2	779.0	776.5	776.5
20°	887.6	875.4	845.4	819.5	794.4	778.2	767.6	769.3	768.4	767.6	767.6
22.5°	893.3	877.1	841.4	809.0	779.0	762.0	752.2	754.7	753.8	753.8	754.7
25°	902.2	881.1	838.2	799.2	764.4	745.7	735.2	736.8	736.8	736.8	736.8
27.5°	914.3	889.2	837.3	790.3	749.8	728.7	715.8	715.8	712.5	713.3	714.1
30°	933.0	904.6	839.0	782.2	734.4	707.6	692.2	689.8	689.0	690.6	691.4
32.5°	955.7	925.7	848.7	776.5	718.2	684.1	664.7	663.9	661.4	661.4	661.4
35°	984.1	946.0	857.6	775.7	702.0	659.0	637.9	635.5	629.8	627.4	627.4
37.5°	1020.5	977.6	868.1	770.1	688.2	634.7	609.6	601.5	595.0	594.2	594.2
40°	1065.1	1013.2	883.5	763.6	673.6	609.6	576.3	562.5	563.4	566.6	566.6
42.5°	1117.8	1057.0	903.0	760.3	652.5	583.6	537.4	521.2	526.9	530.1	530.9
45°	1179.4	1108.9	924.9	756.3	633.1	554.4	496.1	475.8	478.2	479.1	479.9
47.5°	1250.7	1166.4	947.6	753.0	611.2	518.0	450.7	423.9	423.1	418.3	419.9
50°	1325.3	1227.2	971.1	747.4	584.4	475.0	402.9	371.3	364.8	357.5	358.3
52.5°	1404.8	1289.6	993.0	738.4	551.2	431.2	357.5	323.4	310.5	302.4	304.0
55°	1492.3	1353.7	1014.0	724.7	516.3	387.5	316.9	282.1	265.9	259.4	260.2
57.5°	1572.5	1415.3	1029.4	707.6	478.2	347.7	281.3	247.2	236.7	235.9	236.7
60°	1650.4	1467.2	1035.9	684.1	439.3	311.3	248.0	222.1	214.8	218.9	219.7
62.5°	1716.0	1500.4	1032.7	652.5	399.6	276.4	221.3	202.6	197.8	205.9	206.7
65°	1754.1	1510.9	1010.0	607.1	356.7	242.4	196.2	175.9	173.5	178.3	180.8
67.5°	1703.9	1445.3	948.4	544.7	308.8	210.8	171.8	155.6	151.6	155.6	155.6
70°	1510.1	1252.4	802.5	445.8	256.1	180.0	149.1	137.8	134.6	137.8	137.0
72.5°	1258.0	1041.6	632.3	347.7	201.8	151.6	129.7	119.2	115.9	112.7	111.1
75°	976.0	791.1	458.8	255.3	152.4	121.6	108.6	98.9	90.8	94.0	92.4
77.5°	714.9	555.3	325.0	176.7	109.4	94.0	85.1	77.8	72.1	78.6	77.8
80°	460.4	359.1	217.2	118.3	75.4	65.7	62.4	58.4	64.0	83.5	85.1
82.5°	281.3	227.8	129.7	77.0	49.4	43.8	40.5	40.5	65.7	72.1	73.0
85°	125.6	120.8	70.5	39.7	27.6	25.1	22.7	29.2	26.7	19.5	20.3
87.5°	20.3	21.1	15.4	13.8	10.5	10.5	8.1	5.7	4.1	2.4	2.4
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)