

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: P799559

Luminaire Tested: **ARCH2-30-750-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-750-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

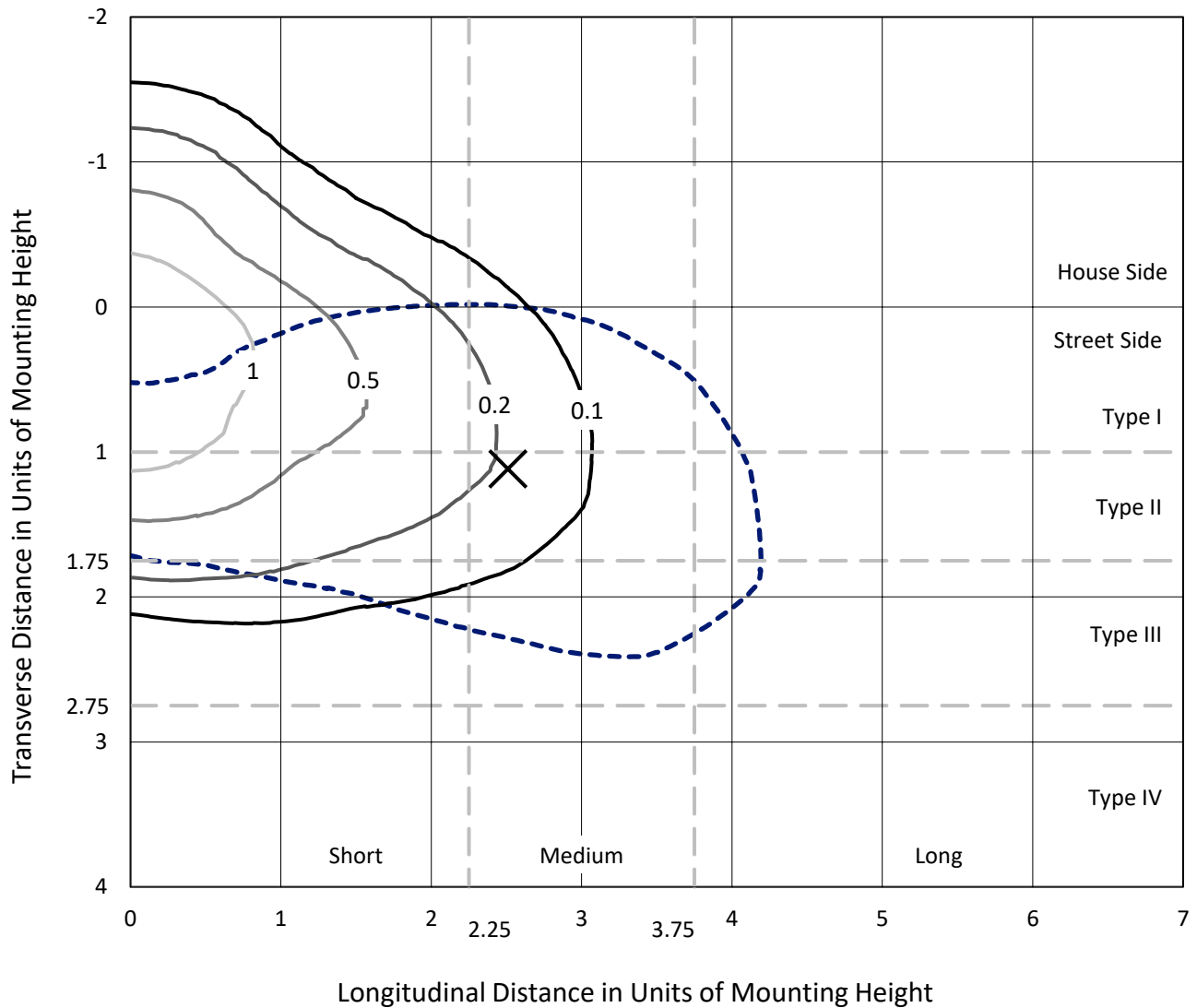
Lumens per Lamp: N/A  
Luminaire Lumens: 5362 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (Ain): 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

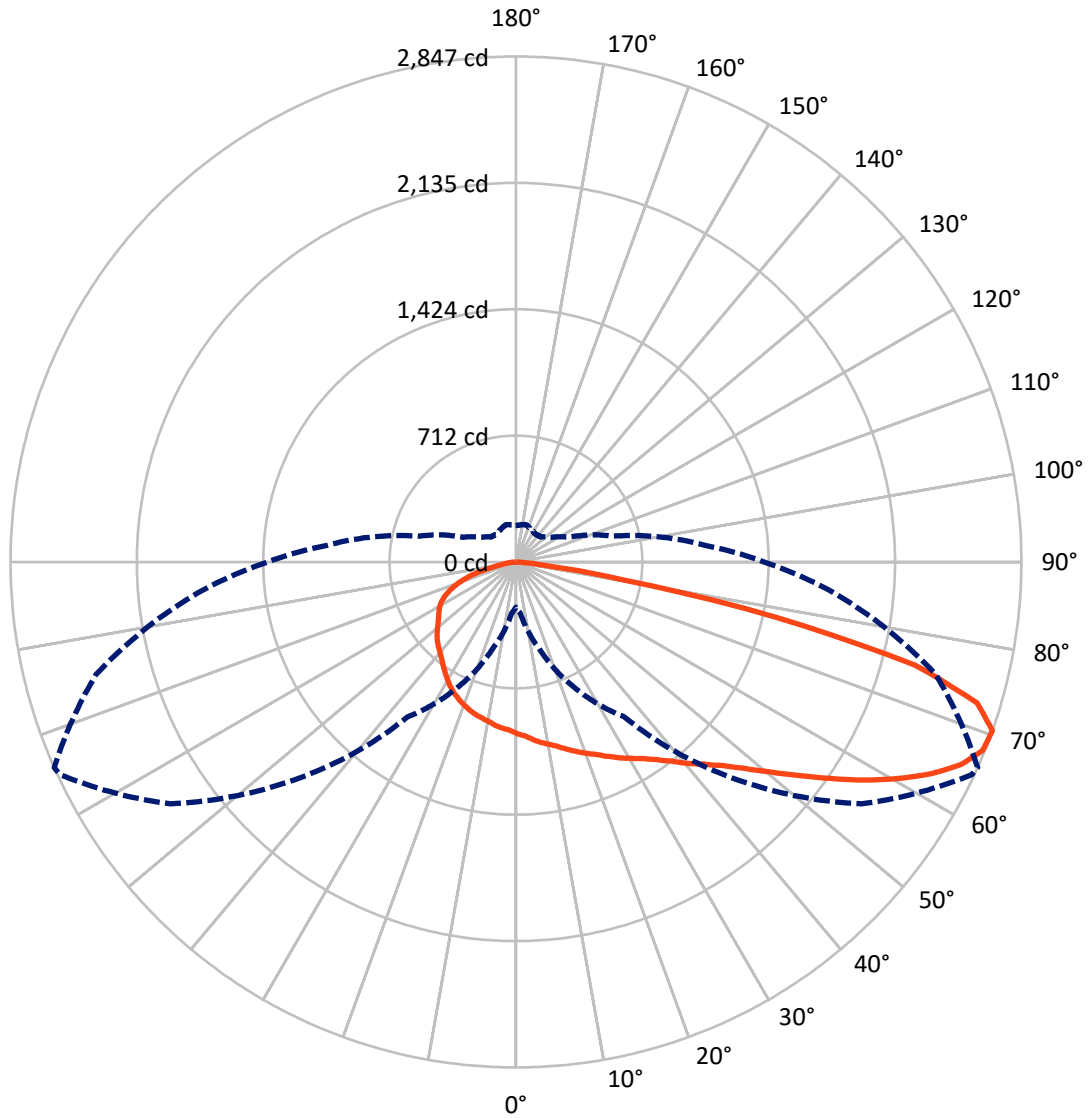
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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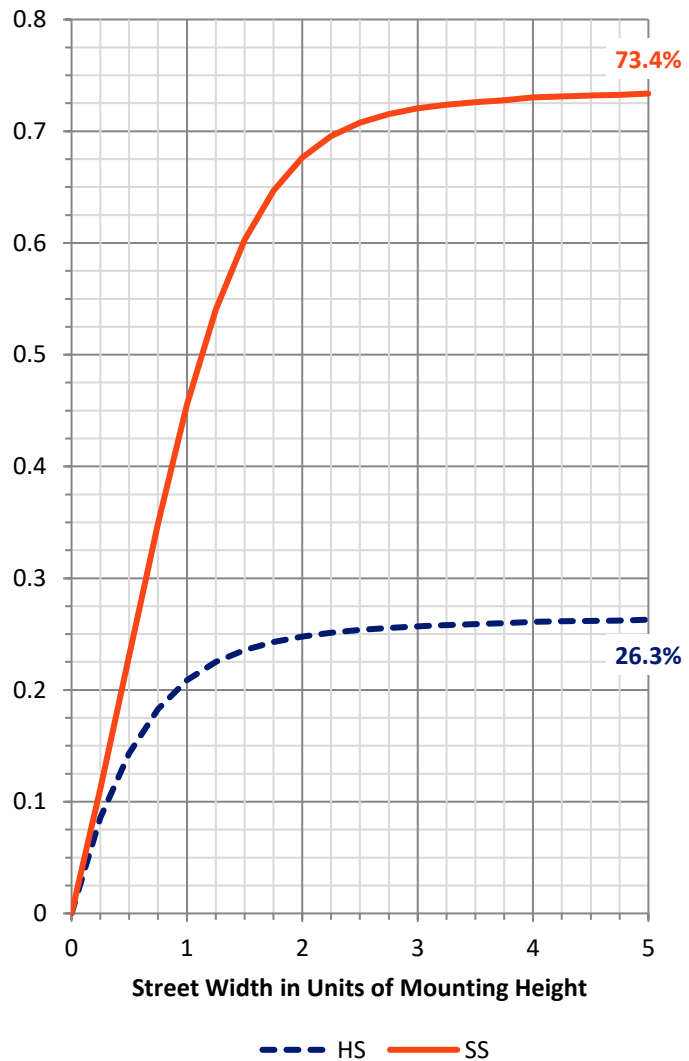
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1420.8	0.0	1420.8
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	3941.2	0.0	3941.2
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	5362.0	0.0	5362.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.7
10°-20°	278.9	5.2
20°-30°	467.6	8.7
30°-40°	700.1	13.1
40°-50°	936.1	17.5
50°-60°	1092.9	20.4
60°-70°	1086.7	20.3
70°-80°	643.3	12.0
80°-90°	63.4	1.2
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°	5362.0	100.0
0°-180°	5362.0	100.0

**Coefficient of Utilization**



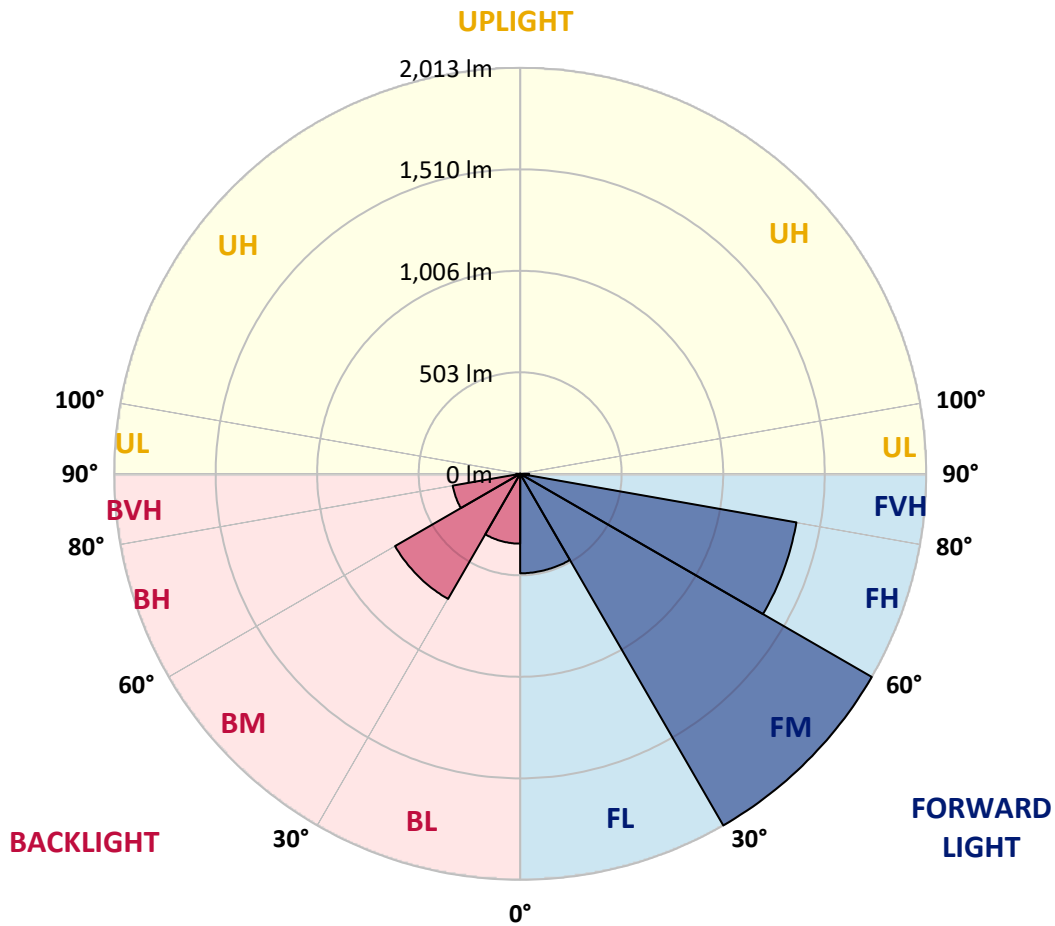
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.2	9.2			
FM (30°-60°)	2012.8	37.5			
FH (60°-80°)	1390.6	25.9			G1/1800
FVH (80°-90°)	44.6	0.8			G1/100
BL (0°-30°)	346.3	6.5	B1/500		
BM (30°-60°)	716.2	13.4	B1/1000		
BH (60°-80°)	339.4	6.3	B1/500		G1/500
BVH (80°-90°)	18.8	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1003.3	1001.7	1000.9	997.8	990.6	993.8	986.7	982.0	981.2	970.1	963.8
5°	1044.4	1043.6	1042.0	1037.3	1026.2	1027.8	1015.9	1007.2	1004.9	987.5	974.0
7.5°	1079.2	1077.6	1076.8	1070.5	1058.6	1057.8	1043.6	1031.0	1027.0	1003.3	982.7
10°	1106.1	1103.7	1105.3	1099.0	1086.3	1083.9	1065.8	1049.2	1045.2	1015.2	986.7
12.5°	1129.0	1127.4	1129.8	1124.3	1114.0	1111.6	1093.4	1072.1	1067.3	1032.5	995.4
15°	1154.3	1148.8	1153.5	1151.1	1144.0	1143.2	1126.6	1102.9	1096.6	1054.7	1008.8
17.5°	1167.7	1164.6	1170.1	1170.9	1167.7	1173.3	1157.5	1129.0	1123.5	1075.2	1020.7
20°	1177.2	1172.5	1178.8	1183.6	1185.9	1197.0	1184.3	1156.7	1150.4	1095.0	1031.8
22.5°	1209.6	1199.4	1200.2	1203.3	1204.9	1220.7	1212.8	1185.9	1179.6	1119.5	1045.2
25°	1291.1	1270.5	1257.1	1247.6	1236.5	1250.0	1245.2	1219.1	1213.6	1148.8	1061.8
27.5°	1417.6	1391.5	1364.6	1336.9	1293.5	1287.9	1280.0	1256.3	1250.0	1178.0	1078.4
30°	1561.5	1535.4	1503.8	1459.5	1378.1	1335.4	1317.2	1291.1	1284.0	1204.1	1094.2
32.5°	1704.6	1681.6	1650.0	1596.3	1480.0	1393.1	1354.3	1327.5	1320.3	1232.6	1113.2
35°	1816.1	1801.8	1781.3	1714.1	1581.2	1461.1	1408.1	1375.7	1367.8	1277.6	1148.0
37.5°	1906.2	1895.9	1878.5	1808.1	1654.8	1529.1	1469.8	1432.6	1423.9	1326.7	1185.1
40°	2039.0	2012.1	1997.9	1895.9	1718.8	1590.7	1539.3	1500.6	1491.1	1378.8	1215.2
42.5°	2152.1	2132.3	2114.9	1974.2	1779.7	1643.7	1605.0	1569.4	1556.7	1430.2	1247.6
45°	2171.0	2178.9	2170.3	2012.9	1876.1	1695.9	1671.4	1648.4	1636.6	1499.8	1296.6
47.5°	2171.8	2171.8	2120.4	2035.1	1995.5	1754.4	1742.5	1750.4	1737.8	1588.4	1355.1
50°	2114.9	2125.2	2098.3	2040.6	2027.1	1812.9	1829.5	1872.2	1859.5	1682.4	1418.4
52.5°	1997.1	2031.1	2030.3	2031.9	1981.3	1862.7	1921.2	2018.5	1997.1	1788.4	1485.6
55°	1789.2	1857.2	1918.0	1970.2	1941.8	1892.7	2033.5	2174.2	2152.1	1907.0	1553.6
57.5°	1611.3	1654.8	1730.7	1878.5	1895.1	1918.8	2138.6	2337.1	2317.3	2038.2	1624.7
60°	1408.1	1468.2	1544.1	1754.4	1838.2	1952.8	2254.1	2496.0	2477.0	2171.0	1693.5
62.5°	1095.8	1173.3	1325.1	1563.8	1755.2	1974.2	2345.0	2635.9	2627.2	2296.8	1755.2
65°	763.7	832.5	1045.2	1329.8	1623.1	1964.7	2417.7	2760.8	2752.9	2399.5	1798.7
67.5°	445.9	525.8	766.1	1070.5	1389.9	1899.1	2441.4	2834.4	2834.4	2462.0	1810.5
70°	254.6	291.7	505.2	780.3	1065.8	1718.0	2375.0	2833.6	2847.0	2447.8	1761.5
72.5°	177.9	194.5	340.0	525.0	722.6	1389.9	2201.1	2696.8	2715.0	2313.4	1593.9
75°	138.4	150.2	239.6	358.2	455.4	944.0	1820.8	2273.8	2322.1	1971.8	1288.7
77.5°	105.2	113.8	139.9	223.7	291.7	542.4	1201.7	1491.1	1494.3	1207.3	691.0
80°	76.7	85.4	93.3	136.8	155.0	253.8	453.8	623.0	605.6	584.3	374.0
82.5°	45.9	54.6	56.9	74.3	75.9	108.3	158.9	200.8	192.9	257.0	175.5
85°	19.8	27.7	29.3	34.0	32.4	44.3	63.2	53.0	47.4	54.6	37.9
87.5°	4.7	7.9	7.9	8.7	7.1	11.1	11.9	8.7	7.9	9.5	9.5
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°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	962.2	959.8	960.6	947.2	943.2	939.3	936.9	935.3	933.7	936.1	938.5
5°	969.3	963.8	957.4	937.7	929.8	921.1	914.7	909.2	906.8	906.8	909.2
7.5°	974.8	965.3	951.9	925.8	911.6	899.7	889.4	882.3	878.4	878.4	880.8
10°	975.6	962.2	940.8	909.2	890.2	872.8	861.0	853.1	847.5	847.5	849.1
12.5°	980.4	962.2	934.5	896.6	872.8	851.5	837.3	825.4	823.0	823.0	824.6
15°	988.3	966.1	930.6	885.5	857.0	832.5	816.7	804.1	799.3	802.5	803.3
17.5°	995.4	968.5	923.4	871.3	837.3	810.4	793.0	781.9	775.6	782.7	782.7
20°	1000.1	968.5	913.2	853.1	815.9	785.9	769.3	755.8	751.1	759.8	760.6
22.5°	1007.2	967.7	902.1	834.9	793.0	761.4	744.8	734.5	732.1	741.6	744.8
25°	1015.2	969.3	890.2	814.3	767.7	736.9	724.2	719.5	721.0	732.9	736.9
27.5°	1023.9	972.5	878.4	791.4	740.0	712.3	705.2	707.6	713.9	729.0	733.7
30°	1031.8	973.3	861.8	764.5	708.4	682.3	685.5	695.7	705.2	720.3	725.8
32.5°	1042.0	974.0	844.4	735.3	674.4	655.4	669.7	686.3	695.7	710.0	716.3
35°	1067.3	987.5	830.9	706.8	642.8	632.5	656.2	677.6	683.1	695.7	701.3
37.5°	1096.6	1009.6	823.8	677.6	611.9	609.6	639.6	661.0	662.5	670.4	676.0
40°	1114.8	1019.1	815.9	653.1	584.3	585.8	616.7	633.3	630.1	635.7	639.6
42.5°	1133.0	1022.3	799.3	632.5	558.2	559.8	583.5	595.3	596.9	608.8	614.3
45°	1163.8	1031.0	781.1	613.5	534.5	528.9	543.2	559.0	579.5	602.5	608.8
47.5°	1204.9	1049.2	762.2	590.6	511.5	493.3	498.9	526.6	547.9	569.2	573.2
50°	1246.8	1067.3	744.8	562.9	488.6	455.4	457.8	483.1	500.5	517.1	519.4
52.5°	1287.9	1083.1	729.7	536.8	462.5	410.3	419.8	445.9	457.8	465.7	468.0
55°	1329.0	1096.6	716.3	514.7	432.5	374.8	383.5	408.0	419.8	423.8	425.4
57.5°	1371.7	1112.4	706.0	495.7	398.5	343.1	348.7	366.1	377.1	381.9	380.3
60°	1407.3	1125.8	700.5	476.0	364.5	313.9	312.3	328.1	343.9	348.7	347.1
62.5°	1435.0	1134.5	691.8	450.7	334.4	284.6	276.7	297.3	313.9	317.0	319.4
65°	1450.0	1135.3	670.4	418.2	303.6	253.0	247.5	268.0	278.3	281.5	281.5
67.5°	1447.6	1122.7	628.5	374.8	275.1	224.5	219.8	232.4	247.5	249.8	247.5
70°	1398.6	1070.5	561.3	328.9	241.1	199.2	190.5	203.2	217.4	208.7	204.8
72.5°	1259.5	935.3	462.5	278.3	203.2	167.6	163.7	176.3	177.1	178.7	174.7
75°	993.8	696.5	346.3	216.6	164.4	140.7	139.9	137.6	140.7	147.1	142.3
77.5°	521.8	347.9	187.4	132.8	119.4	113.1	107.5	106.7	116.2	120.2	115.4
80°	283.0	195.3	107.5	79.9	72.7	73.5	80.6	79.1	89.3	91.7	87.8
82.5°	123.3	92.5	53.0	48.2	48.2	47.4	49.8	55.3	66.4	66.4	53.0
85°	26.9	22.9	20.6	23.7	26.9	26.9	26.9	26.9	19.0	10.3	7.1
87.5°	8.7	8.7	8.7	9.5	10.3	10.3	8.7	6.3	4.0	0.8	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)