

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: P798727

Luminaire Tested: **ARCH1-30-727-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798727  
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: ARCH1-30-727-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4337 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

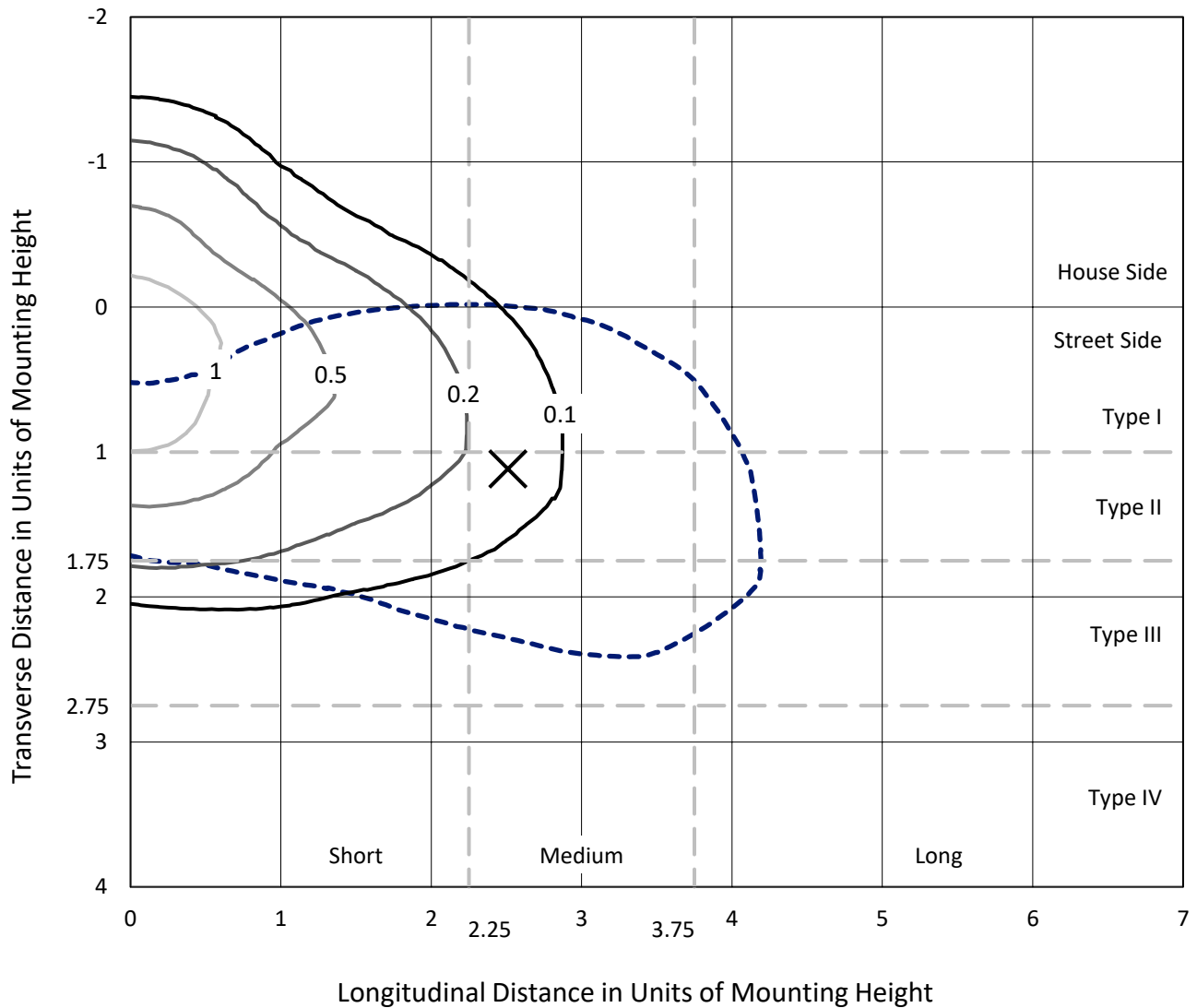
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P798727  
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### Iso-Footcandle Lines of Horizontal Illumination

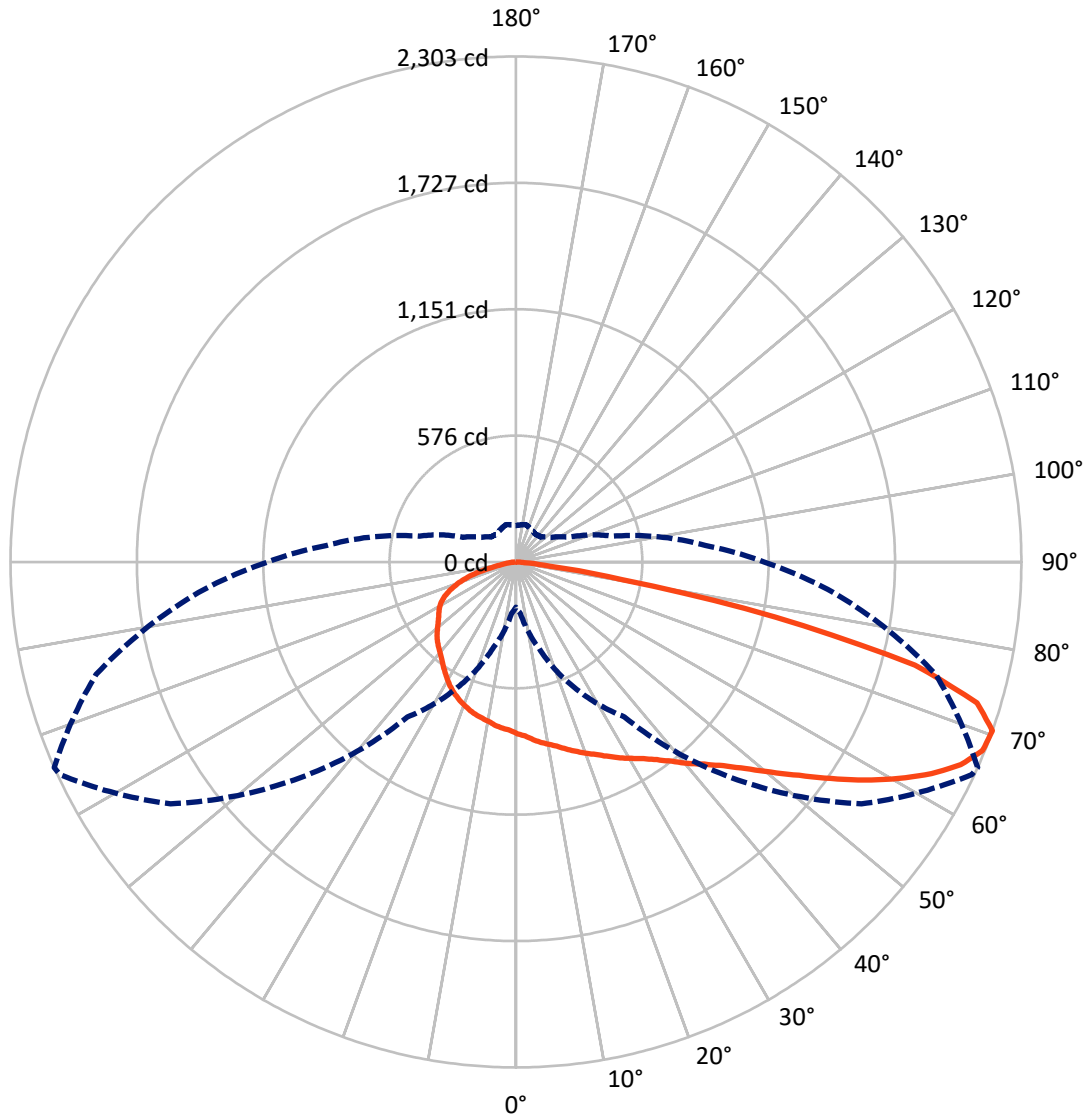
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type 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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 CATALOG NUMBER: ARCH1-30-727-U-T3

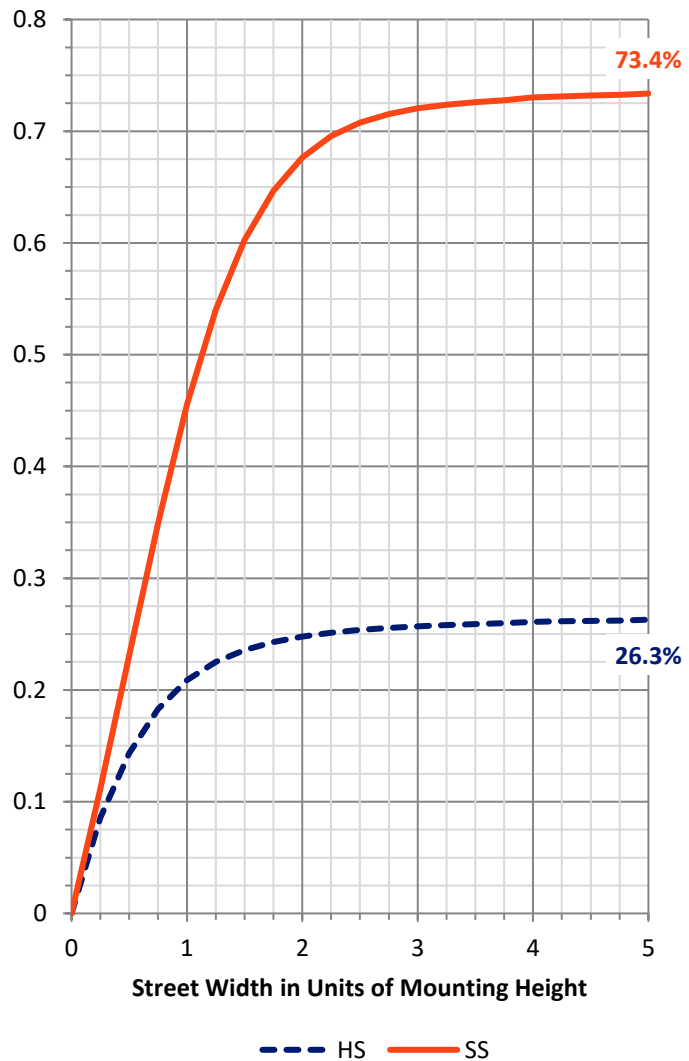
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1149.2	0.0	1149.2
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	3187.8	0.0	3187.8
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	4337.0	0.0	4337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	1.7
10°-20°	225.6	5.2
20°-30°	378.2	8.7
30°-40°	566.3	13.1
40°-50°	757.1	17.5
50°-60°	884.0	20.4
60°-70°	879.0	20.3
70°-80°	520.4	12.0
80°-90°	51.3	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°	4337.0	100.0
0°-180°	4337.0	100.0

**Coefficient of Utilization**

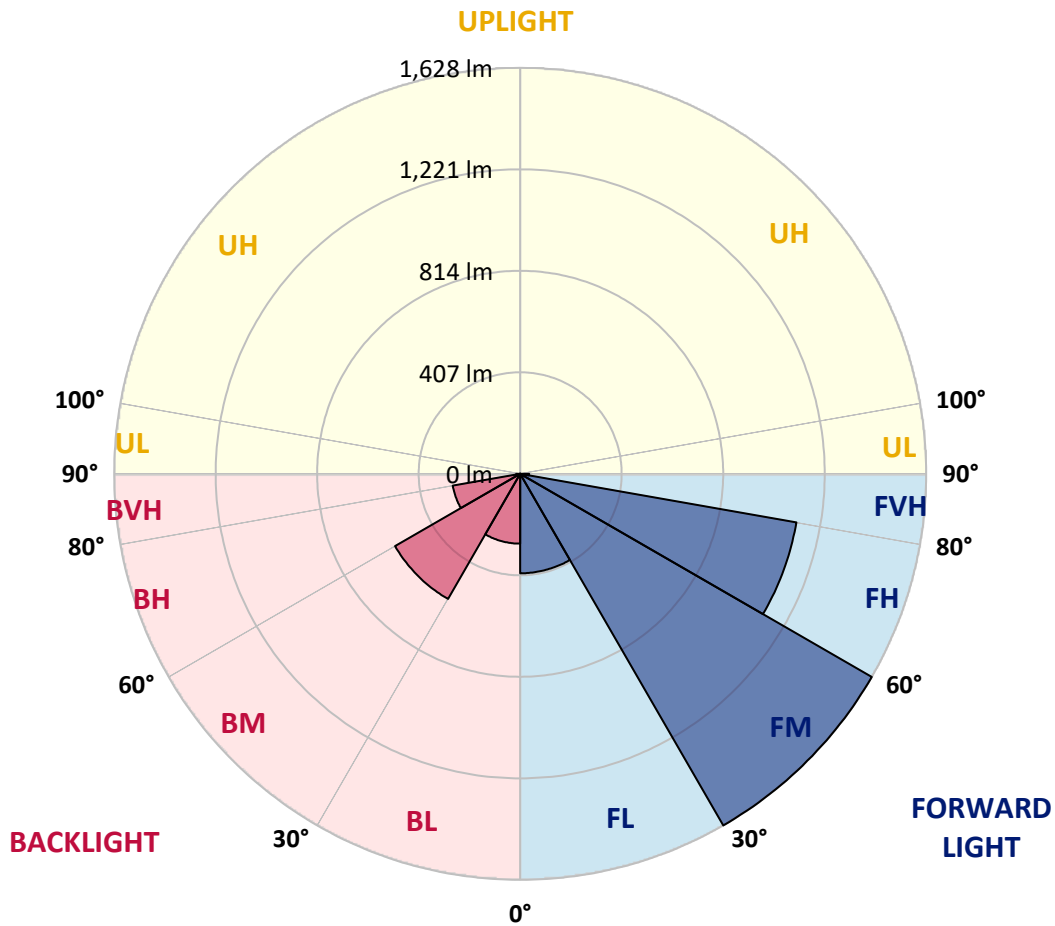


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 CATALOG NUMBER: ARCH1-30-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.9	9.2			
FM (30°-60°)	1628.0	37.5			
FH (60°-80°)	1124.8	25.9			G1/1800
FVH (80°-90°)	36.0	0.8			G1/100
BL (0°-30°)	280.1	6.5	B1/500		
BM (30°-60°)	579.3	13.4	B1/1000		
BH (60°-80°)	274.5	6.3	B1/500		G1/500
BVH (80°-90°)	15.2	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°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	811.5	810.2	809.6	807.0	801.3	803.8	798.1	794.2	793.6	784.6	779.5
5°	844.8	844.1	842.8	839.0	830.1	831.3	821.7	814.7	812.8	798.7	787.8
7.5°	872.9	871.6	871.0	865.9	856.3	855.6	844.1	833.9	830.7	811.5	794.9
10°	894.6	892.7	894.0	888.9	878.7	876.7	862.0	848.6	845.4	821.1	798.1
12.5°	913.2	911.9	913.8	909.3	901.0	899.1	884.4	867.1	863.3	835.2	805.1
15°	933.6	929.2	933.0	931.1	925.3	924.7	911.3	892.1	887.0	853.1	816.0
17.5°	944.5	942.0	946.4	947.1	944.5	949.0	936.2	913.2	908.7	869.7	825.6
20°	952.2	948.4	953.5	957.3	959.2	968.2	957.9	935.6	930.5	885.7	834.5
22.5°	978.4	970.1	970.7	973.3	974.6	987.4	981.0	959.2	954.1	905.5	845.4
25°	1044.3	1027.7	1016.8	1009.1	1000.2	1011.0	1007.2	986.1	981.6	929.2	858.8
27.5°	1146.6	1125.5	1103.8	1081.4	1046.2	1041.7	1035.3	1016.1	1011.0	952.8	872.3
30°	1263.0	1241.9	1216.3	1180.5	1114.6	1080.1	1065.4	1044.3	1038.5	973.9	885.0
32.5°	1378.7	1360.2	1334.6	1291.1	1197.1	1126.8	1095.4	1073.7	1067.9	997.0	900.4
35°	1468.9	1457.4	1440.8	1386.4	1279.0	1181.8	1138.9	1112.7	1106.3	1033.4	928.5
37.5°	1541.8	1533.5	1519.4	1462.5	1338.4	1236.8	1188.8	1158.7	1151.7	1073.1	958.6
40°	1649.2	1627.5	1616.0	1533.5	1390.2	1286.6	1245.1	1213.7	1206.1	1115.3	982.9
42.5°	1740.7	1724.7	1710.6	1596.8	1439.5	1329.5	1298.2	1269.4	1259.1	1156.8	1009.1
45°	1756.0	1762.4	1755.4	1628.1	1517.5	1371.7	1351.9	1333.3	1323.7	1213.1	1048.8
47.5°	1756.7	1756.7	1715.1	1646.0	1614.1	1419.0	1409.4	1415.8	1405.6	1284.7	1096.1
50°	1710.6	1718.9	1697.2	1650.5	1639.6	1466.3	1479.8	1514.3	1504.1	1360.8	1147.2
52.5°	1615.3	1642.8	1642.2	1643.5	1602.5	1506.6	1553.9	1632.6	1615.3	1446.5	1201.6
55°	1447.2	1502.2	1551.4	1593.6	1570.6	1530.9	1644.8	1758.6	1740.7	1542.4	1256.6
57.5°	1303.3	1338.4	1399.8	1519.4	1532.8	1552.0	1729.8	1890.3	1874.3	1648.6	1314.1
60°	1138.9	1187.5	1248.9	1419.0	1486.8	1579.5	1823.2	2018.9	2003.5	1756.0	1369.8
62.5°	886.3	949.0	1071.8	1264.9	1419.7	1596.8	1896.7	2132.0	2125.0	1857.7	1419.7
65°	617.7	673.4	845.4	1075.6	1312.9	1589.1	1955.5	2233.1	2226.7	1940.8	1454.8
67.5°	360.7	425.3	619.7	865.9	1124.2	1536.0	1974.7	2292.6	2292.6	1991.4	1464.4
70°	205.9	236.0	408.6	631.2	862.0	1389.6	1921.0	2291.9	2302.8	1979.8	1424.8
72.5°	143.9	157.3	275.0	424.6	584.5	1124.2	1780.3	2181.3	2196.0	1871.1	1289.2
75°	111.9	121.5	193.8	289.7	368.3	763.5	1472.7	1839.2	1878.2	1594.9	1042.4
77.5°	85.1	92.1	113.2	181.0	236.0	438.7	972.0	1206.1	1208.6	976.5	558.9
80°	62.0	69.1	75.5	110.6	125.3	205.3	367.1	503.9	489.8	472.6	302.5
82.5°	37.1	44.1	46.0	60.1	61.4	87.6	128.5	162.4	156.0	207.8	142.0
85°	16.0	22.4	23.7	27.5	26.2	35.8	51.2	42.8	38.4	44.1	30.7
87.5°	3.8	6.4	6.4	7.0	5.8	9.0	9.6	7.0	6.4	7.7	7.7
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: P798727  
 CATALOG NUMBER: ARCH1-30-727-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	778.3	776.3	777.0	766.1	762.9	759.7	757.8	756.5	755.2	757.2	759.1
5°	784.0	779.5	774.4	758.4	752.0	745.0	739.9	735.4	733.5	733.5	735.4
7.5°	788.5	780.8	769.9	748.8	737.3	727.7	719.4	713.7	710.5	710.5	712.4
10°	789.1	778.3	761.0	735.4	720.1	706.0	696.4	690.0	685.5	685.5	686.8
12.5°	793.0	778.3	755.9	725.2	706.0	688.7	677.2	667.6	665.7	665.7	667.0
15°	799.4	781.5	752.7	716.2	693.2	673.4	660.6	650.4	646.5	649.1	649.7
17.5°	805.1	783.4	746.9	704.7	677.2	655.5	641.4	632.5	627.3	633.1	633.1
20°	808.9	783.4	738.6	690.0	659.9	635.6	622.2	611.3	607.5	614.5	615.2
22.5°	814.7	782.7	729.7	675.3	641.4	615.8	602.4	594.1	592.2	599.8	602.4
25°	821.1	784.0	720.1	658.7	620.9	596.0	585.8	581.9	583.2	592.8	596.0
27.5°	828.1	786.6	710.5	640.1	598.6	576.2	570.4	572.3	577.5	589.6	593.4
30°	834.5	787.2	697.0	618.4	573.0	551.9	554.4	562.7	570.4	582.6	587.0
32.5°	842.8	787.8	683.0	594.7	545.5	530.1	541.6	555.1	562.7	574.3	579.4
35°	863.3	798.7	672.1	571.7	519.9	511.6	530.8	548.0	552.5	562.7	567.2
37.5°	887.0	816.6	666.3	548.0	495.0	493.0	517.3	534.6	535.9	542.3	546.8
40°	901.7	824.3	659.9	528.2	472.6	473.9	498.8	512.2	509.7	514.1	517.3
42.5°	916.4	826.9	646.5	511.6	451.5	452.8	471.9	481.5	482.8	492.4	496.9
45°	941.3	833.9	631.8	496.2	432.3	427.8	439.3	452.1	468.7	487.3	492.4
47.5°	974.6	848.6	616.5	477.7	413.7	399.0	403.5	425.9	443.2	460.4	463.6
50°	1008.5	863.3	602.4	455.3	395.2	368.3	370.3	390.7	404.8	418.2	420.1
52.5°	1041.7	876.1	590.2	434.2	374.1	331.9	339.6	360.7	370.3	376.7	378.6
55°	1075.0	887.0	579.4	416.3	349.8	303.1	310.2	330.0	339.6	342.8	344.0
57.5°	1109.5	899.8	571.1	401.0	322.3	277.5	282.0	296.1	305.0	308.9	307.6
60°	1138.3	910.6	566.6	385.0	294.8	253.9	252.6	265.4	278.2	282.0	280.7
62.5°	1160.7	917.7	559.5	364.5	270.5	230.2	223.8	240.4	253.9	256.4	258.4
65°	1172.8	918.3	542.3	338.3	245.6	204.6	200.2	216.8	225.1	227.7	227.7
67.5°	1170.9	908.1	508.4	303.1	222.5	181.6	177.8	188.0	200.2	202.1	200.2
70°	1131.2	865.9	454.0	266.0	195.0	161.2	154.1	164.3	175.9	168.8	165.6
72.5°	1018.7	756.5	374.1	225.1	164.3	135.6	132.4	142.6	143.2	144.5	141.3
75°	803.8	563.4	280.1	175.2	133.0	113.8	113.2	111.3	113.8	118.9	115.1
77.5°	422.1	281.4	151.6	107.4	96.6	91.4	87.0	86.3	94.0	97.2	93.4
80°	228.9	158.0	87.0	64.6	58.8	59.5	65.2	63.9	72.3	74.2	71.0
82.5°	99.8	74.8	42.8	39.0	39.0	38.4	40.3	44.8	53.7	53.7	42.8
85°	21.7	18.5	16.6	19.2	21.7	21.7	21.7	21.7	15.3	8.3	5.8
87.5°	7.0	7.0	7.0	7.7	8.3	8.3	7.0	5.1	3.2	0.6	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)