

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: P573000

Luminaire Tested: **ARCH-S-PA2-20-740-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-740-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3693 lumens  
Efficiency: N/A  
Efficacy: 157.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

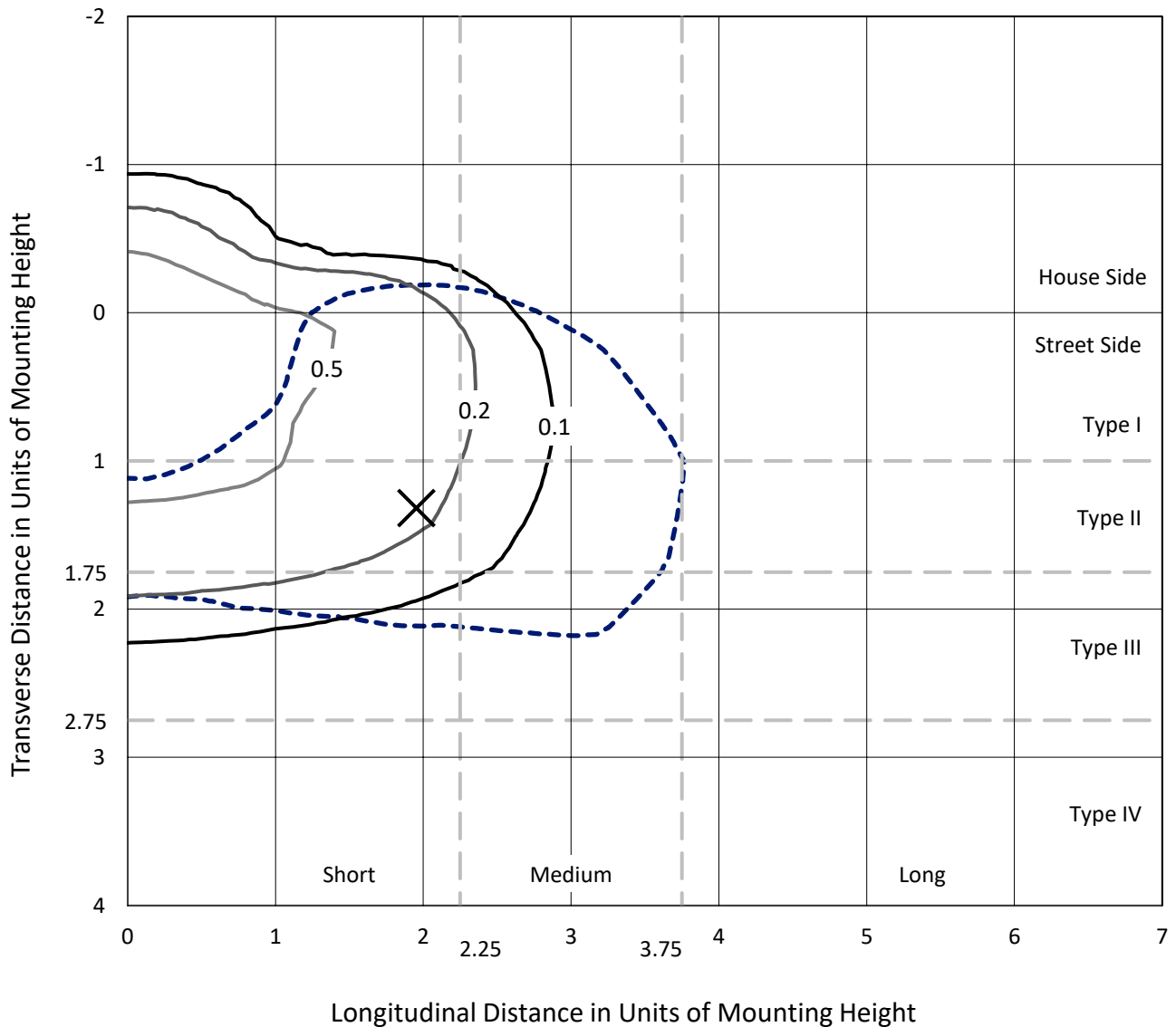
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

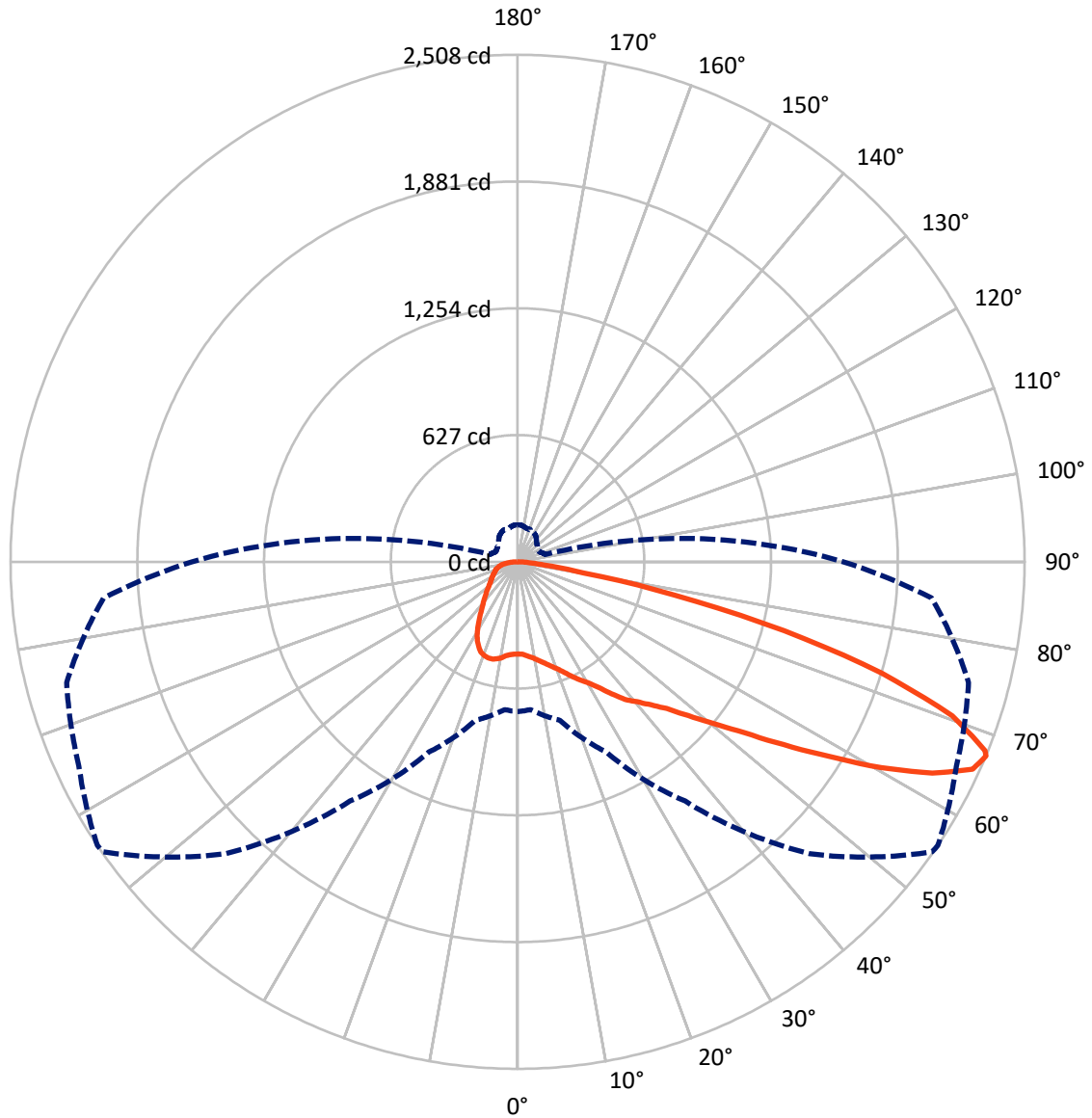
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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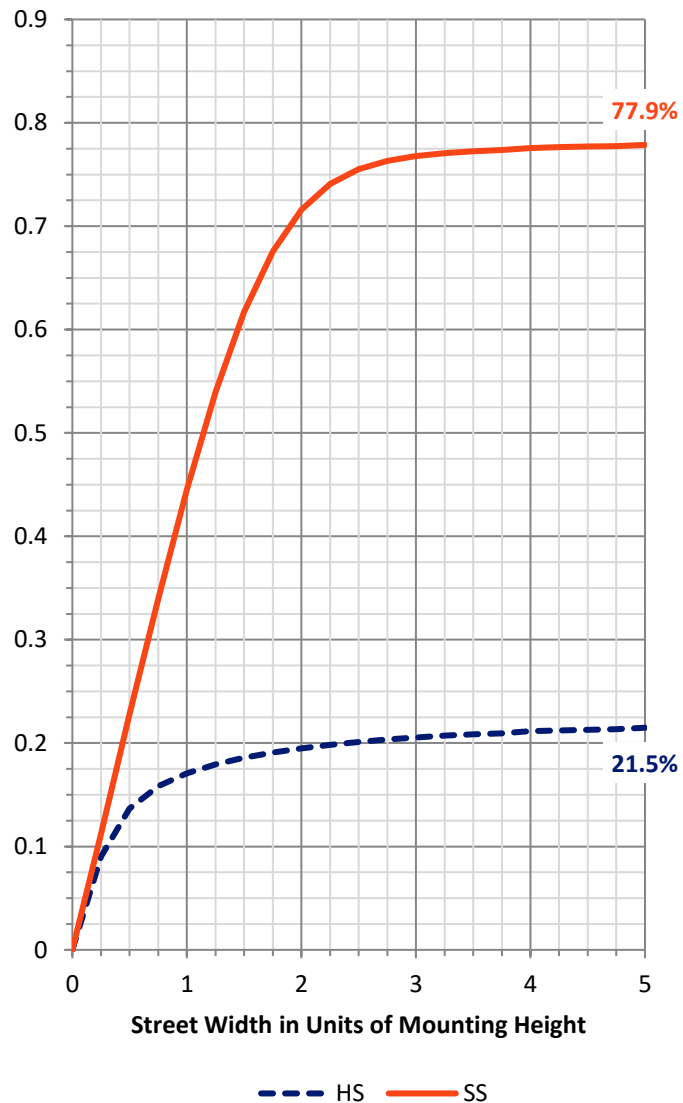
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	808.0	0.0	808.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	2885.0	0.0	2885.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	3693.0	0.0	3693.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	1.2
10°-20°	143.8	3.9
20°-30°	250.4	6.8
30°-40°	367.1	9.9
40°-50°	537.1	14.5
50°-60°	839.4	22.7
60°-70°	997.7	27.0
70°-80°	454.4	12.3
80°-90°	58.3	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°	3693.0	100.0
0°-180°	3693.0	100.0

**Coefficient of Utilization**

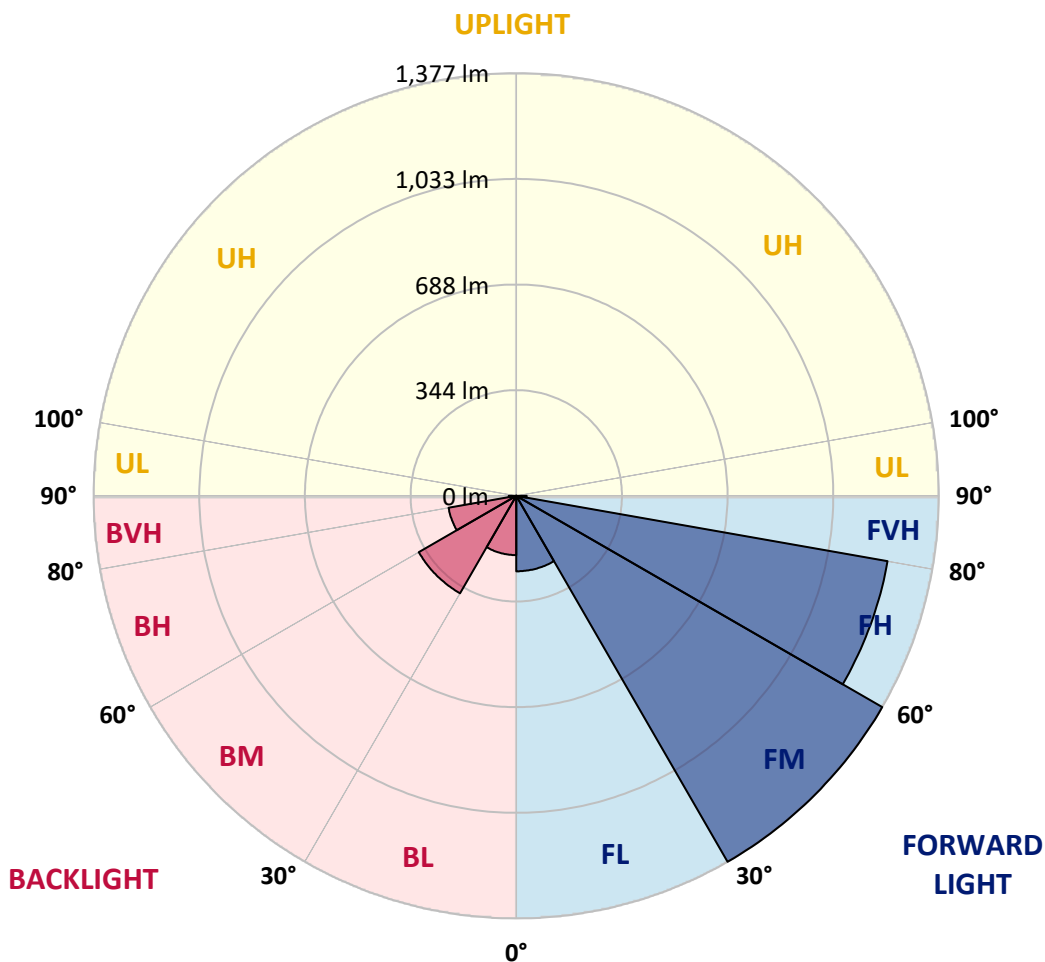


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.0	6.7			
FM (30°-60°)	1376.9	37.3			
FH (60°-80°)	1228.2	33.3			G1/1800
FVH (80°-90°)	34.0	0.9			G1/100
BL (0°-30°)	193.1	5.2	B1/500		
BM (30°-60°)	366.8	9.9	B1/1000		
BH (60°-80°)	223.8	6.1	B1/500		G1/500
BVH (80°-90°)	24.3	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	462.9	460.9	459.9	460.9	459.9	457.9	458.9	457.9	456.9	455.9	455.9
5°	468.9	466.9	465.9	466.9	467.9	465.9	465.9	465.9	462.9	461.9	459.9
7.5°	472.9	469.9	469.9	471.9	473.9	474.9	476.9	475.9	472.9	470.9	466.9
10°	485.9	481.9	481.9	481.9	483.9	485.9	487.9	488.9	487.9	486.9	483.9
12.5°	505.9	501.9	501.9	501.9	501.9	500.9	503.9	504.9	506.9	506.9	501.9
15°	532.9	527.9	525.9	521.9	520.9	518.9	522.9	522.9	525.9	526.9	521.9
17.5°	558.9	552.9	550.9	546.9	542.9	537.9	541.9	542.9	548.9	549.9	541.9
20°	585.9	583.9	580.9	574.9	567.9	562.9	566.9	565.9	570.9	572.9	562.9
22.5°	620.9	615.9	613.9	605.9	597.9	592.9	592.9	594.9	599.9	599.9	584.9
25°	662.9	655.9	650.9	641.9	631.9	625.9	626.9	628.9	635.9	630.9	607.9
27.5°	714.9	707.9	700.9	682.9	672.9	660.9	659.9	661.9	672.9	659.9	629.9
30°	763.9	760.9	754.9	740.9	724.9	704.9	695.9	696.9	704.9	686.9	648.9
32.5°	805.9	801.9	798.9	788.9	777.9	753.9	741.9	742.9	741.9	719.9	671.9
35°	855.9	849.9	847.9	838.9	824.9	808.9	803.9	801.9	795.9	765.9	701.9
37.5°	903.9	897.9	894.9	889.9	878.9	864.9	864.9	863.9	851.9	809.9	731.9
40°	960.9	953.9	944.9	941.9	932.9	922.9	914.9	909.9	888.9	850.9	789.9
42.5°	1029.9	1025.9	1020.9	1007.9	993.9	991.9	968.9	966.9	951.9	929.9	871.9
45°	1128.9	1120.9	1113.9	1109.9	1092.9	1074.9	1042.9	1034.9	1034.9	1029.9	967.9
47.5°	1228.8	1214.8	1224.8	1221.8	1217.8	1197.8	1135.9	1136.9	1134.9	1147.9	1108.9
50°	1295.8	1287.8	1315.8	1328.8	1356.8	1356.8	1267.8	1256.8	1264.8	1302.8	1252.8
52.5°	1347.8	1342.8	1374.8	1425.8	1508.8	1516.8	1424.8	1401.8	1412.8	1466.8	1446.8
55°	1389.8	1384.8	1421.8	1510.8	1643.8	1692.8	1605.8	1595.8	1573.8	1631.8	1637.8
57.5°	1414.8	1403.8	1459.8	1578.8	1753.8	1866.8	1817.8	1814.8	1763.8	1817.8	1844.8
60°	1376.8	1369.8	1446.8	1606.8	1842.8	2030.7	2066.7	2066.7	1975.7	2004.7	2037.7
62.5°	1253.8	1244.8	1325.8	1541.8	1853.8	2164.7	2313.7	2301.7	2179.7	2178.7	2149.7
65°	1019.9	1008.9	1099.9	1327.8	1714.8	2180.7	2480.7	2473.7	2332.7	2292.7	2156.7
67°	740.9	733.9	811.9	1037.9	1444.8	2041.7	2501.7	2507.7	2393.7	2308.7	2055.7
67.5°	664.9	663.9	728.9	952.9	1365.8	1990.7	2487.7	2493.7	2392.7	2295.7	2015.7
70°	310.0	324.0	385.0	545.9	920.9	1567.8	2257.7	2280.7	2264.7	2145.7	1697.8
72.5°	144.0	150.0	177.0	264.0	494.9	1010.9	1829.8	1884.8	1954.7	1840.8	1344.8
75°	89.0	91.0	106.0	137.0	233.0	485.9	1302.8	1362.8	1468.8	1384.8	859.9
77.5°	70.0	71.0	81.0	98.0	136.0	209.0	714.9	789.9	927.9	818.9	432.9
80°	52.0	54.0	62.0	76.0	96.0	107.0	304.0	332.0	447.9	343.0	180.0
82.5°	38.0	40.0	48.0	55.0	67.0	68.0	124.0	131.0	192.0	139.0	78.0
85°	32.0	32.0	37.0	41.0	45.0	38.0	61.0	60.0	74.0	63.0	31.0
87.5°	15.0	16.0	35.0	26.0	22.0	16.0	18.0	19.0	23.0	25.0	12.0
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°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	454.9	454.9	454.9	455.9	456.9	456.9	457.9	457.9	458.9	459.9	461.9
5°	458.9	458.9	457.9	458.9	460.9	461.9	463.9	465.9	467.9	469.9	470.9
7.5°	466.9	465.9	465.9	465.9	467.9	469.9	472.9	474.9	477.9	478.9	480.9
10°	481.9	479.9	479.9	480.9	481.9	478.9	477.9	476.9	479.9	481.9	483.9
12.5°	499.9	497.9	496.9	493.9	489.9	483.9	478.9	474.9	475.9	477.9	480.9
15°	518.9	514.9	512.9	505.9	495.9	482.9	474.9	469.9	469.9	469.9	472.9
17.5°	538.9	534.9	526.9	513.9	494.9	476.9	466.9	457.9	453.9	452.9	454.9
20°	557.9	551.9	538.9	518.9	488.9	464.9	451.9	436.9	430.9	426.9	428.9
22.5°	575.9	567.9	549.9	518.9	478.9	446.9	423.9	403.9	393.9	391.9	392.9
25°	594.9	584.9	560.9	512.9	456.9	419.9	387.9	367.0	354.0	352.0	355.0
27.5°	613.9	598.9	569.9	496.9	431.9	383.0	349.0	329.0	322.0	318.0	319.0
30°	629.9	615.9	578.9	474.9	397.9	340.0	309.0	300.0	295.0	293.0	293.0
32.5°	650.9	637.9	584.9	448.9	358.0	301.0	281.0	274.0	270.0	265.0	266.0
35°	676.9	664.9	581.9	415.9	320.0	275.0	259.0	249.0	240.0	233.0	232.0
37.5°	711.9	702.9	566.9	376.0	285.0	256.0	240.0	227.0	214.0	203.0	201.0
40°	769.9	748.9	544.9	332.0	261.0	241.0	222.0	206.0	190.0	178.0	175.0
42.5°	843.9	799.9	514.9	287.0	241.0	225.0	206.0	185.0	170.0	159.0	159.0
45°	929.9	854.9	478.9	253.0	220.0	209.0	186.0	168.0	159.0	152.0	151.0
47.5°	1031.9	909.9	432.9	226.0	203.0	195.0	172.0	161.0	155.0	149.0	148.0
50°	1168.8	983.9	398.9	203.0	186.0	179.0	168.0	159.0	153.0	149.0	148.0
52.5°	1325.8	1078.9	375.0	185.0	172.0	169.0	167.0	160.0	154.0	151.0	150.0
55°	1495.8	1195.8	352.0	170.0	161.0	165.0	169.0	162.0	158.0	154.0	152.0
57.5°	1655.8	1294.8	315.0	157.0	153.0	160.0	168.0	163.0	158.0	155.0	154.0
60°	1764.8	1344.8	264.0	145.0	145.0	153.0	165.0	158.0	153.0	154.0	154.0
62.5°	1799.8	1325.8	209.0	134.0	137.0	145.0	156.0	152.0	150.0	155.0	155.0
65°	1747.8	1248.8	167.0	125.0	129.0	135.0	151.0	155.0	161.0	172.0	173.0
67°	1611.8	1124.9	141.0	118.0	122.0	132.0	157.0	171.0	171.0	183.0	183.0
67.5°	1571.8	1082.9	137.0	116.0	121.0	132.0	160.0	175.0	171.0	185.0	185.0
70°	1277.8	851.9	116.0	110.0	117.0	139.0	173.0	176.0	167.0	180.0	179.0
72.5°	947.9	615.9	106.0	104.0	109.0	131.0	172.0	169.0	156.0	160.0	157.0
75°	585.9	357.0	98.0	96.0	99.0	116.0	159.0	154.0	139.0	136.0	133.0
77.5°	283.0	181.0	84.0	87.0	90.0	101.0	140.0	135.0	122.0	115.0	114.0
80°	123.0	93.0	72.0	77.0	78.0	86.0	116.0	110.0	98.0	87.0	87.0
82.5°	61.0	52.0	57.0	64.0	62.0	69.0	91.0	81.0	72.0	60.0	58.0
85°	28.0	30.0	42.0	48.0	42.0	43.0	62.0	57.0	45.0	34.0	35.0
87.5°	10.0	14.0	24.0	29.0	21.0	20.0	33.0	24.0	14.0	4.0	5.0
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)