

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: P573002

Luminaire Tested: **ARCH-S-PA2-20-740-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
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-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3680 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

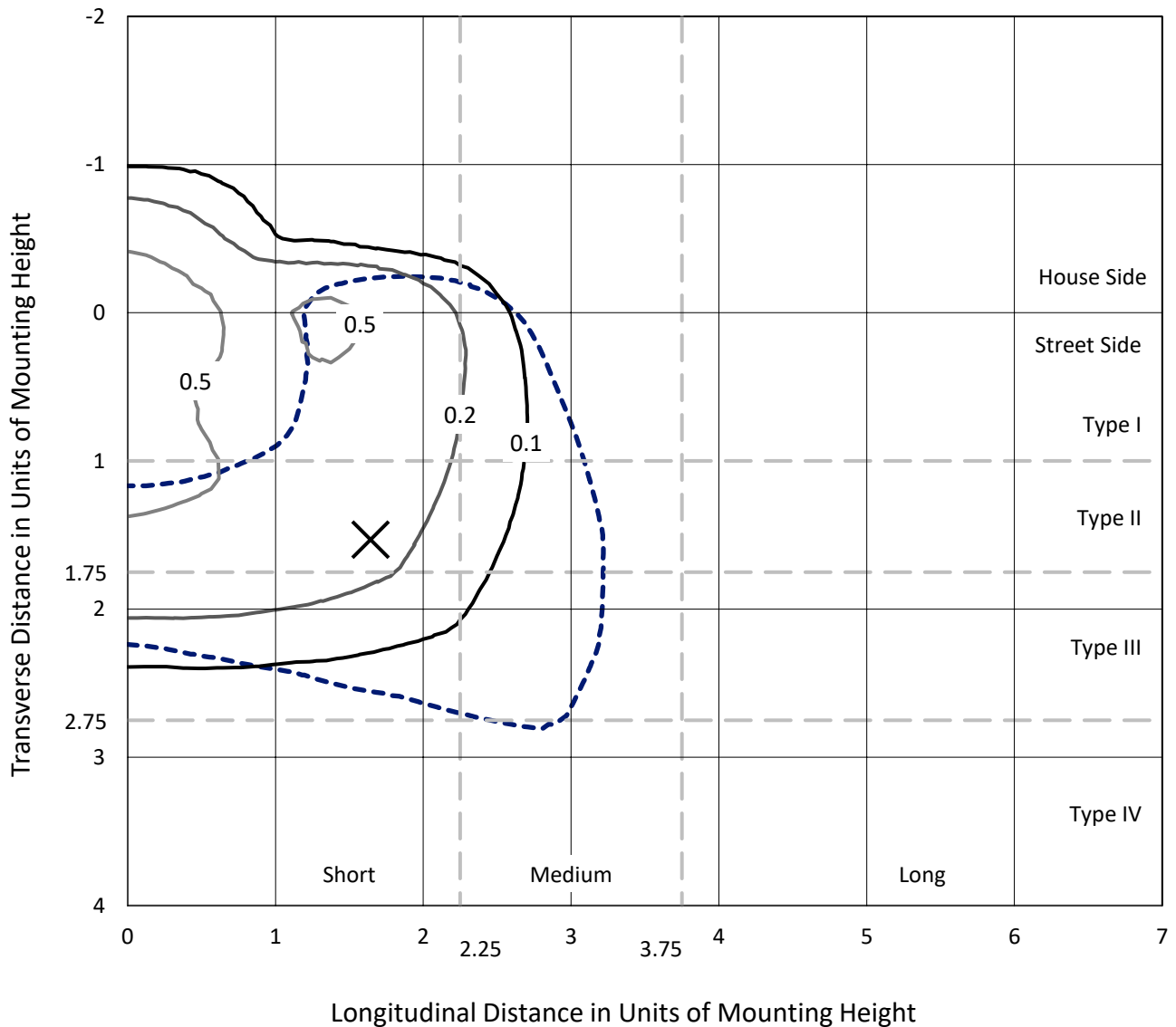
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

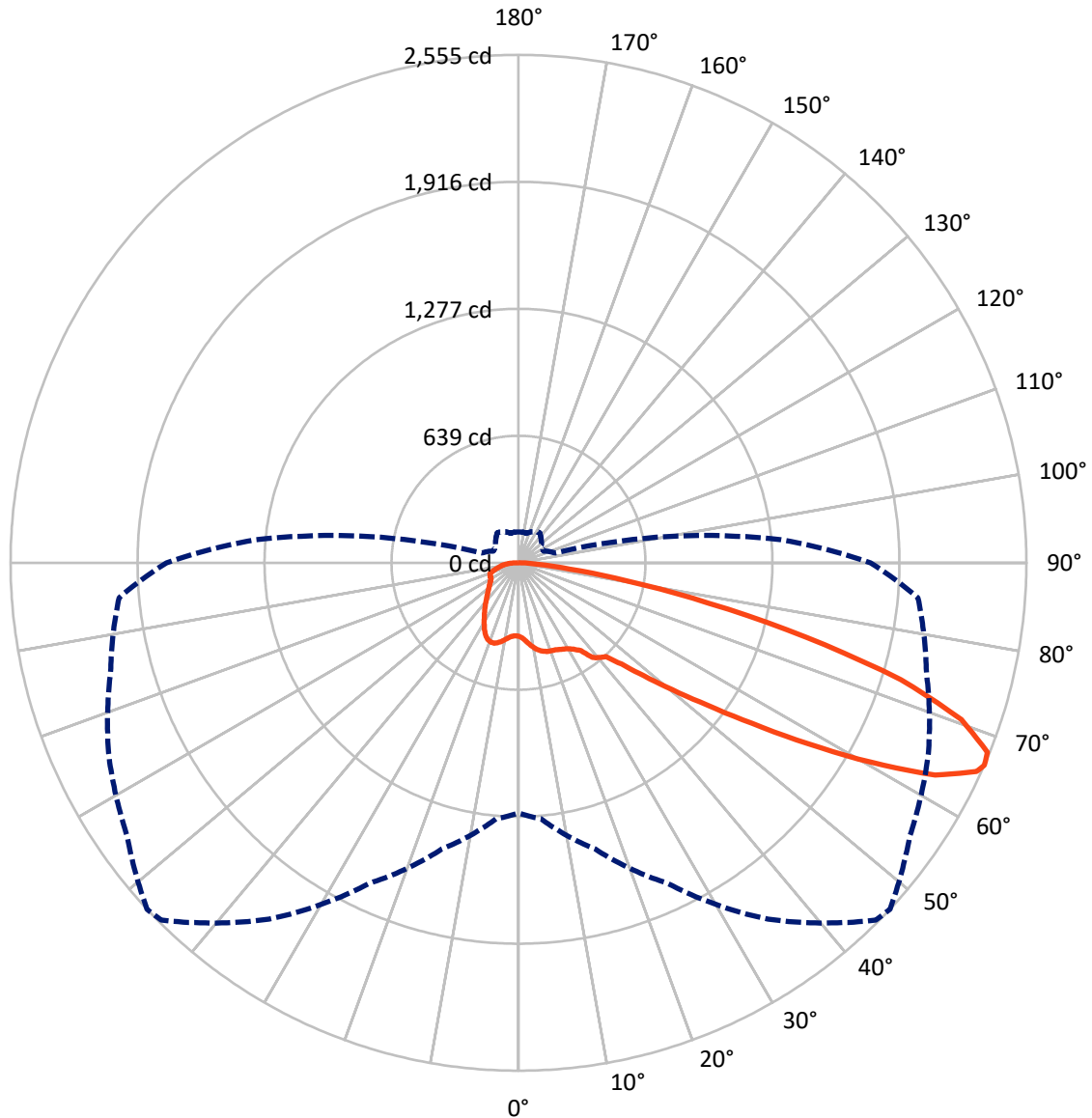
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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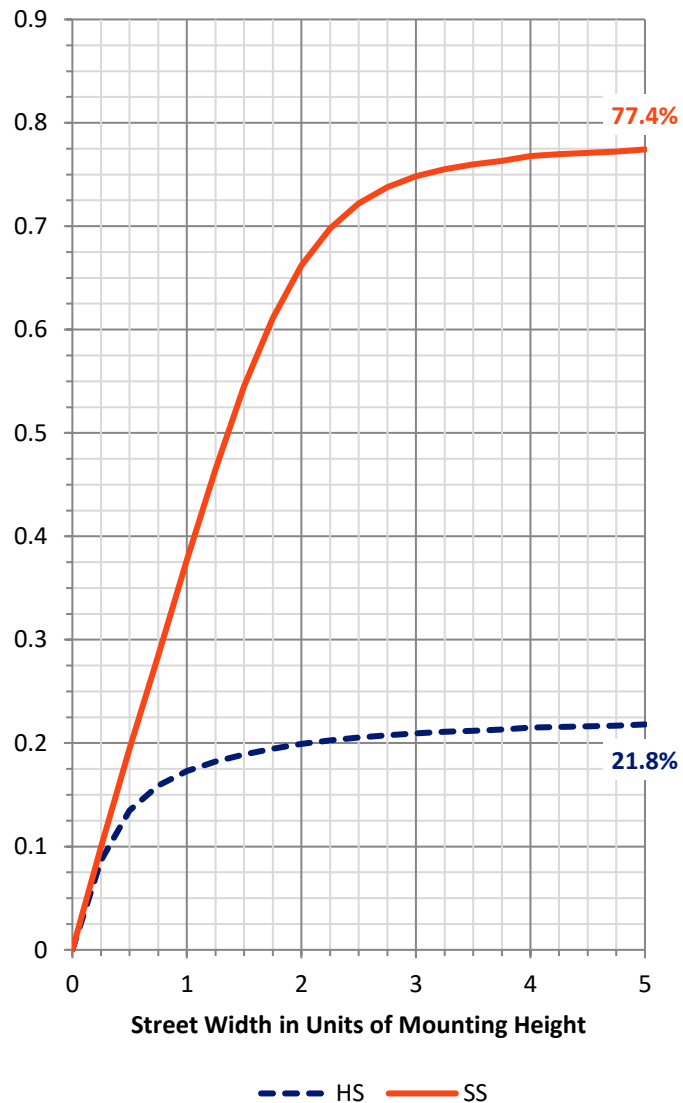
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	818.2	0.0	818.2
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	2861.8	0.0	2861.8
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	3680.0	0.0	3680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	1.0
10°-20°	123.5	3.4
20°-30°	206.0	5.6
30°-40°	299.1	8.1
40°-50°	457.5	12.4
50°-60°	864.8	23.5
60°-70°	1117.5	30.4
70°-80°	502.3	13.6
80°-90°	71.7	1.9
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°	3680.0	100.0
0°-180°	3680.0	100.0

**Coefficient of Utilization**

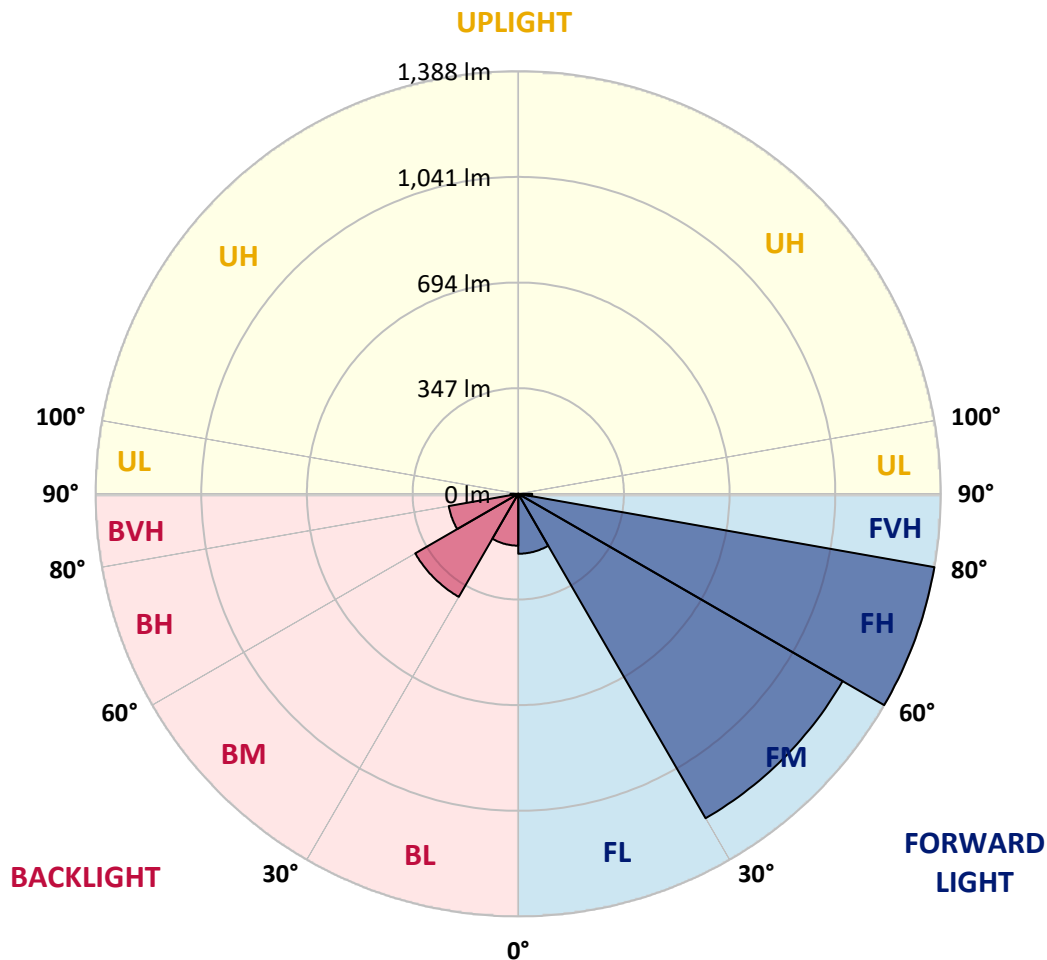


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.9	5.3			
FM (30°-60°)	1230.7	33.4			
FH (60°-80°)	1388.2	37.7			G1/1800
FVH (80°-90°)	46.0	1.3			G1/100
BL (0°-30°)	170.3	4.6	B1/500		
BM (30°-60°)	390.8	10.6	B1/1000		
BH (60°-80°)	231.5	6.3	B1/500		G1/500
BVH (80°-90°)	25.6	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°	47°	55°	65°	75°	85°
0°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	390.9	387.9	385.9	384.9	383.0	379.0	379.0	378.0	374.0	372.0	371.0
5°	421.9	419.9	414.9	410.9	404.9	396.9	395.9	389.9	382.0	376.0	372.0
7.5°	451.9	449.9	444.9	438.9	428.9	418.9	415.9	407.9	394.9	385.9	379.0
10°	477.9	474.9	468.9	460.9	449.9	438.9	435.9	426.9	413.9	400.9	388.9
12.5°	494.9	492.9	485.9	475.9	463.9	452.9	450.9	442.9	429.9	415.9	400.9
15°	502.9	501.9	493.9	483.9	471.9	462.9	461.9	454.9	443.9	429.9	412.9
17.5°	500.9	499.9	492.9	482.9	473.9	468.9	468.9	463.9	454.9	442.9	424.9
20°	490.9	490.9	484.9	477.9	472.9	471.9	471.9	470.9	464.9	454.9	436.9
22.5°	480.9	480.9	476.9	471.9	470.9	474.9	475.9	477.9	475.9	467.9	451.9
25°	482.9	481.9	476.9	470.9	471.9	480.9	482.9	487.9	486.9	480.9	466.9
27.5°	504.9	503.9	490.9	478.9	477.9	488.9	490.9	497.9	497.9	492.9	483.9
30°	559.9	561.9	537.9	507.9	492.9	499.9	501.9	509.9	513.9	515.9	508.9
32.5°	643.9	640.9	604.9	555.9	522.9	515.9	518.9	525.9	539.9	543.9	526.9
35°	728.9	730.9	695.9	633.9	570.9	544.9	542.9	552.9	573.9	555.9	525.9
37.5°	807.9	804.9	763.9	696.9	633.9	603.9	604.9	600.9	582.9	546.9	532.9
40°	893.9	885.9	851.9	765.9	685.9	635.9	626.9	592.9	577.9	562.9	560.9
42.5°	978.9	979.9	951.9	866.9	747.9	658.9	644.9	609.9	619.9	616.9	614.9
45°	1085.9	1085.9	1057.9	978.9	845.9	744.9	725.9	683.9	699.9	711.9	735.9
47.5°	1183.8	1177.8	1169.8	1102.9	973.9	856.9	848.9	800.9	842.9	879.9	928.9
50°	1287.8	1279.8	1274.8	1233.8	1141.9	1026.9	1002.9	952.9	1044.9	1113.9	1204.8
52.5°	1449.8	1435.8	1409.8	1386.8	1350.8	1217.8	1187.8	1150.9	1269.8	1356.8	1542.8
55°	1595.8	1583.8	1558.8	1575.8	1570.8	1449.8	1423.8	1388.8	1517.8	1623.8	1836.8
57.5°	1649.8	1650.8	1684.8	1775.8	1823.8	1753.8	1716.8	1681.8	1790.8	1839.8	2031.7
60°	1674.8	1671.8	1759.8	1907.8	2063.7	2084.7	2037.7	1965.7	2006.7	2009.7	2196.7
62.5°	1620.8	1628.8	1749.8	1962.7	2207.7	2358.7	2351.7	2225.7	2187.7	2145.7	2240.7
65°	1415.8	1426.8	1604.8	1864.8	2230.7	2524.7	2531.7	2384.7	2278.7	2161.7	2115.7
66°	1259.8	1292.8	1490.8	1779.8	2188.7	2541.7	2554.7	2401.7	2274.7	2123.7	2016.7
67.5°	1056.9	1054.9	1275.8	1592.8	2071.7	2526.7	2543.7	2377.7	2220.7	2011.7	1818.8
70°	646.9	666.9	856.9	1188.8	1714.8	2339.7	2362.7	2208.7	1987.7	1703.8	1344.8
72.5°	332.0	365.0	489.9	772.9	1244.8	1933.7	2011.7	1854.8	1624.8	1232.8	820.9
75°	176.0	174.0	231.0	418.9	794.9	1450.8	1491.8	1390.8	1122.9	734.9	417.9
77.5°	94.0	99.0	121.0	215.0	436.9	926.9	978.9	896.9	639.9	376.0	200.0
80°	64.0	67.0	82.0	121.0	237.0	502.9	550.9	477.9	335.0	178.0	94.0
82.5°	41.0	43.0	56.0	75.0	142.0	244.0	257.0	245.0	164.0	101.0	57.0
85°	25.0	26.0	34.0	48.0	89.0	99.0	103.0	104.0	92.0	66.0	31.0
87.5°	12.0	13.0	19.0	24.0	42.0	36.0	33.0	34.0	51.0	39.0	14.0
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°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	370.0	369.0	367.0	366.0	367.0	367.0	367.0	368.0	370.0	370.0	371.0
5°	370.0	368.0	366.0	366.0	368.0	370.0	372.0	376.0	378.0	379.0	379.0
7.5°	375.0	373.0	371.0	371.0	374.0	378.0	382.0	386.9	391.9	395.9	395.9
10°	384.9	382.0	380.0	381.0	385.9	390.9	395.9	401.9	406.9	411.9	411.9
12.5°	395.9	392.9	389.9	391.9	398.9	404.9	409.9	412.9	417.9	421.9	421.9
15°	406.9	401.9	400.9	404.9	411.9	415.9	417.9	417.9	419.9	423.9	423.9
17.5°	418.9	413.9	412.9	416.9	422.9	422.9	418.9	415.9	414.9	417.9	418.9
20°	430.9	425.9	425.9	428.9	427.9	420.9	413.9	408.9	404.9	407.9	408.9
22.5°	445.9	440.9	438.9	434.9	425.9	411.9	400.9	394.9	391.9	393.9	395.9
25°	460.9	456.9	451.9	437.9	416.9	394.9	381.0	376.0	377.0	381.0	383.0
27.5°	479.9	477.9	465.9	435.9	400.9	371.0	357.0	356.0	360.0	366.0	369.0
30°	502.9	499.9	478.9	429.9	379.0	343.0	333.0	335.0	341.0	346.0	349.0
32.5°	518.9	516.9	484.9	415.9	352.0	318.0	310.0	310.0	313.0	320.0	323.0
35°	523.9	531.9	488.9	394.9	320.0	296.0	288.0	283.0	283.0	289.0	291.0
37.5°	540.9	558.9	490.9	367.0	294.0	276.0	266.0	257.0	254.0	253.0	253.0
40°	579.9	600.9	489.9	331.0	269.0	256.0	244.0	234.0	226.0	215.0	216.0
42.5°	647.9	663.9	486.9	293.0	247.0	238.0	226.0	214.0	201.0	189.0	188.0
45°	778.9	754.9	478.9	260.0	227.0	222.0	211.0	197.0	181.0	170.0	170.0
47.5°	985.9	919.9	473.9	229.0	209.0	208.0	198.0	183.0	167.0	159.0	158.0
50°	1269.8	1147.9	481.9	207.0	193.0	196.0	188.0	174.0	161.0	154.0	153.0
52.5°	1595.8	1392.8	490.9	193.0	181.0	187.0	183.0	170.0	157.0	151.0	150.0
55°	1847.8	1591.8	477.9	180.0	169.0	178.0	178.0	166.0	155.0	149.0	149.0
57.5°	2024.7	1671.8	432.9	168.0	159.0	170.0	173.0	164.0	154.0	152.0	152.0
60°	2100.7	1667.8	354.0	157.0	152.0	162.0	170.0	162.0	156.0	161.0	162.0
62.5°	2059.7	1580.8	275.0	149.0	147.0	160.0	173.0	170.0	163.0	167.0	169.0
65°	1874.8	1427.8	207.0	142.0	141.0	161.0	181.0	175.0	158.0	159.0	160.0
66°	1770.8	1324.8	190.0	140.0	139.0	162.0	185.0	173.0	154.0	156.0	155.0
67.5°	1548.8	1162.8	167.0	136.0	135.0	162.0	190.0	169.0	149.0	152.0	149.0
70°	1135.9	822.9	143.0	131.0	129.0	159.0	189.0	161.0	138.0	136.0	131.0
72.5°	658.9	497.9	127.0	125.0	120.0	140.0	177.0	148.0	126.0	120.0	115.0
75°	324.0	253.0	113.0	118.0	105.0	123.0	160.0	137.0	116.0	108.0	105.0
77.5°	149.0	128.0	102.0	108.0	93.0	106.0	146.0	125.0	103.0	91.0	88.0
80°	81.0	80.0	86.0	90.0	78.0	93.0	129.0	109.0	87.0	74.0	70.0
82.5°	50.0	51.0	63.0	69.0	61.0	81.0	114.0	91.0	66.0	52.0	53.0
85°	26.0	29.0	42.0	46.0	40.0	60.0	86.0	61.0	37.0	27.0	27.0
87.5°	9.0	12.0	21.0	25.0	22.0	36.0	54.0	29.0	8.0	0.0	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)