

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: P573110

Luminaire Tested: **ARCH-S-PA2-30-827-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573110  
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-PA2-30-827-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3843 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

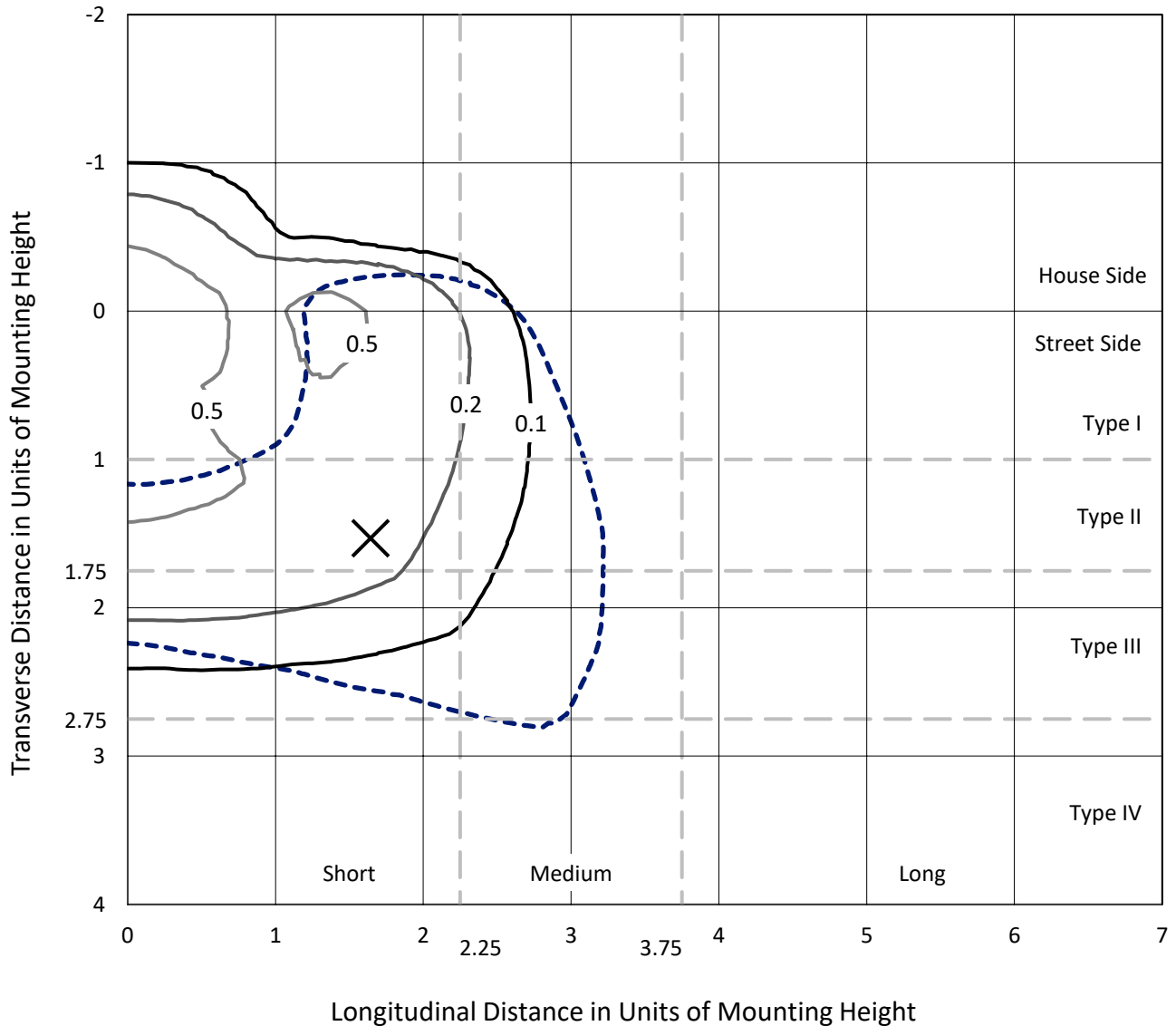
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

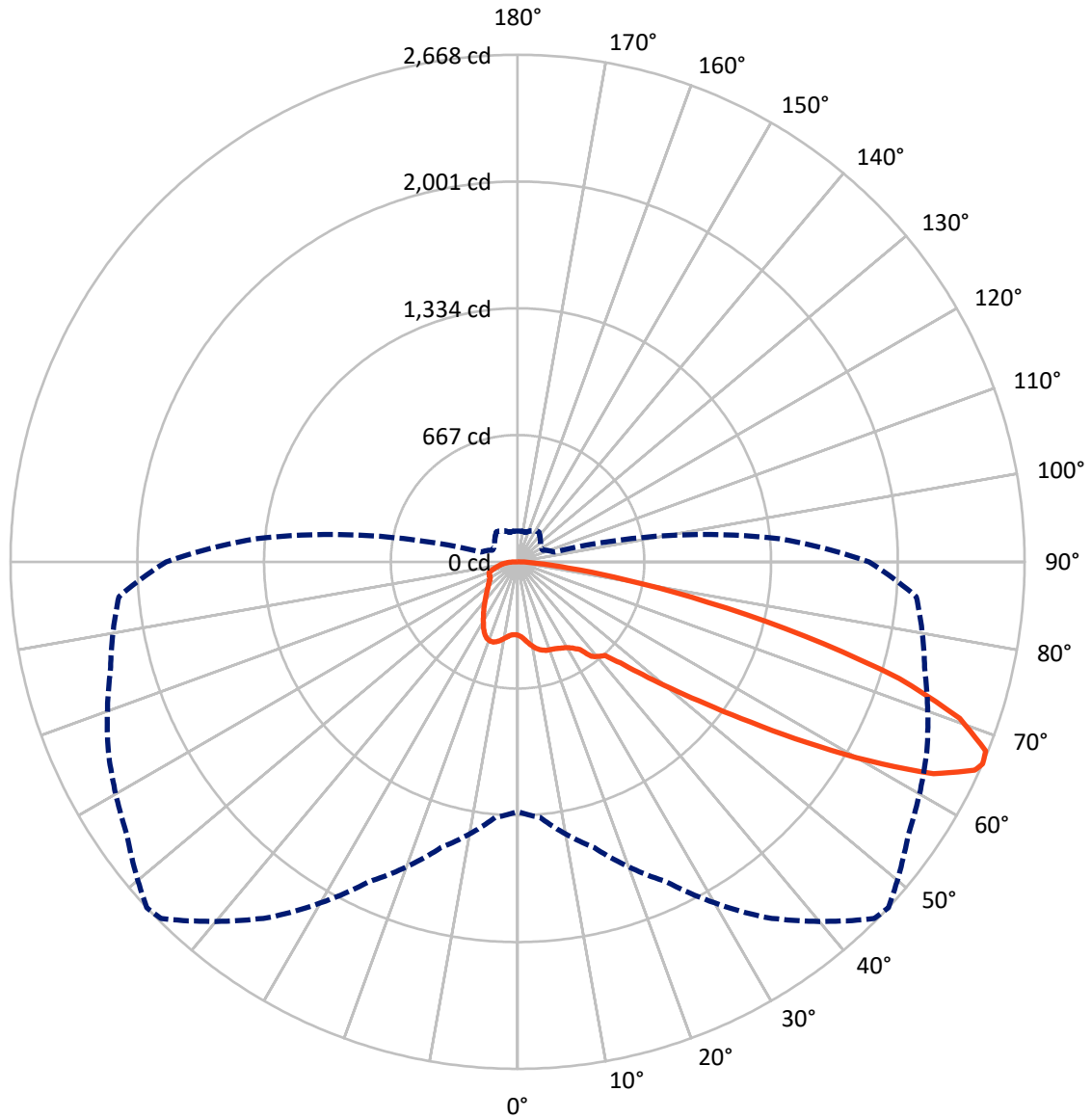
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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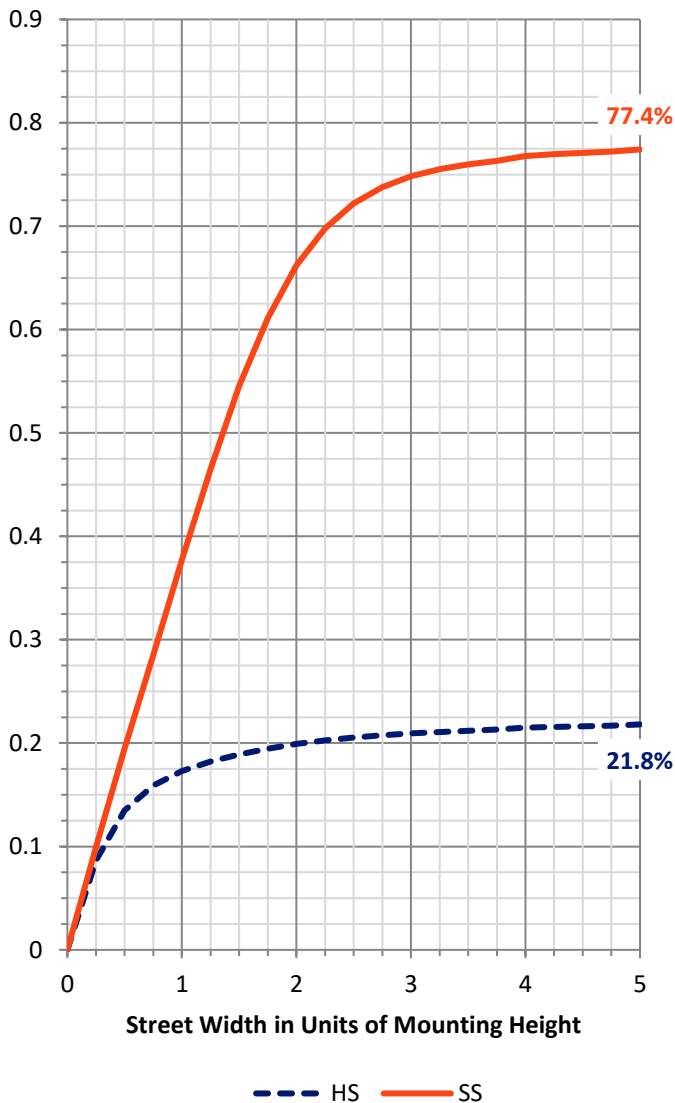
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	854.4	0.0	854.4
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	2988.6	0.0	2988.6
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	3843.0	0.0	3843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	1.0
10°-20°	129.0	3.4
20°-30°	215.1	5.6
30°-40°	312.4	8.1
40°-50°	477.8	12.4
50°-60°	903.1	23.5
60°-70°	1166.9	30.4
70°-80°	524.5	13.6
80°-90°	74.8	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°	3843.0	100.0
0°-180°	3843.0	100.0

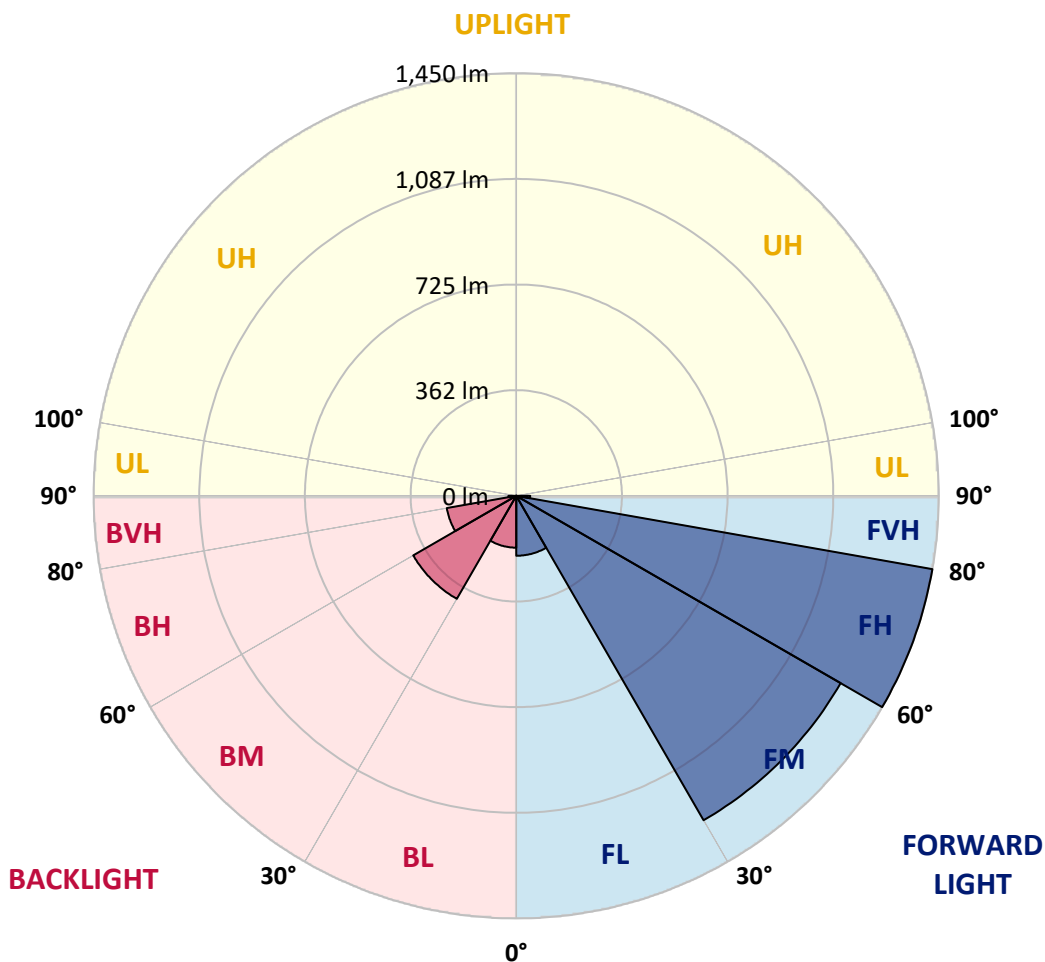


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.6	5.4			
FM (30°-60°)	1285.2	33.4			
FH (60°-80°)	1449.7	37.7			G1/1800
FVH (80°-90°)	48.1	1.3			G1/100
BL (0°-30°)	177.8	4.6	B1/500		
BM (30°-60°)	408.1	10.6	B1/1000		
BH (60°-80°)	241.8	6.3	B1/500		G1/500
BVH (80°-90°)	26.7	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°	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3
2.5°	408.3	405.1	403.0	402.0	399.9	395.7	395.7	394.7	390.5	388.4	387.4
5°	440.6	438.5	433.3	429.1	422.9	414.5	413.5	407.2	398.9	392.6	388.4
7.5°	472.0	469.9	464.7	458.4	447.9	437.5	434.4	426.0	412.4	403.0	395.7
10°	499.1	496.0	489.7	481.4	469.9	458.4	455.3	445.9	432.3	418.7	406.2
12.5°	516.9	514.8	507.5	497.0	484.5	473.0	470.9	462.6	449.0	434.4	418.7
15°	525.2	524.2	515.8	505.4	492.8	483.4	482.4	475.1	463.6	449.0	431.2
17.5°	523.1	522.1	514.8	504.3	494.9	489.7	489.7	484.5	475.1	462.6	443.8
20°	512.7	512.7	506.4	499.1	493.9	492.8	492.8	491.8	485.5	475.1	456.3
22.5°	502.2	502.2	498.1	492.8	491.8	496.0	497.0	499.1	497.0	488.7	472.0
25°	504.3	503.3	498.1	491.8	492.8	502.2	504.3	509.5	508.5	502.2	487.6
27.5°	527.3	526.3	512.7	500.2	499.1	510.6	512.7	520.0	520.0	514.8	505.4
30°	584.7	586.8	561.8	530.4	514.8	522.1	524.2	532.5	536.7	538.8	531.5
32.5°	672.4	669.3	631.7	580.6	546.1	538.8	541.9	549.2	563.8	568.0	550.3
35°	761.2	763.3	726.7	662.0	596.2	569.1	567.0	577.4	599.3	580.6	549.2
37.5°	843.7	840.5	797.7	727.8	662.0	630.7	631.7	627.5	608.7	571.2	556.5
40°	933.5	925.1	889.6	799.8	716.3	664.1	654.7	619.2	603.5	587.9	585.8
42.5°	1022.2	1023.3	994.0	905.3	781.0	688.1	673.5	636.9	647.4	644.2	642.2
45°	1134.0	1134.0	1104.7	1022.2	883.4	777.9	758.1	714.2	730.9	743.4	768.5
47.5°	1236.3	1230.0	1221.7	1151.7	1017.0	894.8	886.5	836.4	880.2	918.9	970.0
50°	1344.9	1336.5	1331.3	1288.5	1192.4	1072.4	1047.3	995.1	1091.1	1163.2	1258.2
52.5°	1514.0	1499.4	1472.3	1448.2	1410.7	1271.8	1240.5	1201.8	1326.1	1416.9	1611.1
55°	1666.5	1653.9	1627.8	1645.6	1640.4	1514.0	1486.9	1450.3	1585.0	1695.7	1918.1
57.5°	1722.9	1723.9	1759.4	1854.4	1904.5	1831.5	1792.8	1756.3	1870.1	1921.3	2121.7
60°	1749.0	1745.8	1837.7	1992.3	2155.1	2177.1	2128.0	2052.8	2095.6	2098.8	2294.0
62.5°	1692.6	1700.9	1827.3	2049.7	2305.5	2463.2	2455.9	2324.3	2284.6	2240.8	2340.0
65°	1478.5	1490.0	1675.9	1947.4	2329.5	2636.5	2643.8	2490.3	2379.6	2257.5	2209.4
66°	1315.6	1350.1	1556.8	1858.6	2285.7	2654.2	2667.8	2508.1	2375.5	2217.8	2106.1
67.5°	1103.7	1101.6	1332.3	1663.3	2163.5	2638.6	2656.3	2483.0	2319.1	2100.8	1899.3
70°	675.6	696.5	894.8	1241.5	1790.7	2443.3	2467.3	2306.5	2075.8	1779.2	1404.4
72.5°	346.7	381.1	511.6	807.1	1300.0	2019.4	2100.8	1936.9	1696.8	1287.4	857.3
75°	183.8	181.7	241.2	437.5	830.1	1515.1	1557.9	1452.4	1172.6	767.5	436.5
77.5°	98.2	103.4	126.3	224.5	456.3	967.9	1022.2	936.6	668.3	392.6	208.8
80°	66.8	70.0	85.6	126.3	247.5	525.2	575.3	499.1	349.8	185.9	98.2
82.5°	42.8	44.9	58.5	78.3	148.3	254.8	268.3	255.8	171.2	105.5	59.5
85°	26.1	27.1	35.5	50.1	92.9	103.4	107.5	108.6	96.1	68.9	32.4
87.5°	12.5	13.6	19.8	25.1	43.9	37.6	34.5	35.5	53.3	40.7	14.6
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°	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3	386.3
2.5°	386.3	385.3	383.2	382.2	383.2	383.2	383.2	384.3	386.3	386.3	387.4
5°	386.3	384.3	382.2	382.2	384.3	386.3	388.4	392.6	394.7	395.7	395.7
7.5°	391.6	389.5	387.4	387.4	390.5	394.7	398.9	404.1	409.3	413.5	413.5
10°	402.0	398.9	396.8	397.8	403.0	408.3	413.5	419.8	425.0	430.2	430.2
12.5°	413.5	410.4	407.2	409.3	416.6	422.9	428.1	431.2	436.5	440.6	440.6
15°	425.0	419.8	418.7	422.9	430.2	434.4	436.5	436.5	438.5	442.7	442.7
17.5°	437.5	432.3	431.2	435.4	441.7	441.7	437.5	434.4	433.3	436.5	437.5
20°	450.0	444.8	444.8	447.9	446.9	439.6	432.3	427.1	422.9	426.0	427.1
22.5°	465.7	460.5	458.4	454.2	444.8	430.2	418.7	412.4	409.3	411.4	413.5
25°	481.4	477.2	472.0	457.3	435.4	412.4	397.8	392.6	393.6	397.8	399.9
27.5°	501.2	499.1	486.6	455.3	418.7	387.4	372.8	371.7	375.9	382.2	385.3
30°	525.2	522.1	500.2	449.0	395.7	358.1	347.7	349.8	356.1	361.3	364.4
32.5°	541.9	539.8	506.4	434.4	367.5	332.0	323.7	323.7	326.8	334.1	337.3
35°	547.1	555.5	510.6	412.4	334.1	309.1	300.7	295.5	295.5	301.8	303.8
37.5°	564.9	583.7	512.7	383.2	307.0	288.2	277.7	268.3	265.2	264.2	264.2
40°	605.6	627.5	511.6	345.6	280.9	267.3	254.8	244.3	236.0	224.5	225.5
42.5°	676.6	693.3	508.5	305.9	257.9	248.5	236.0	223.4	209.9	197.3	196.3
45°	813.4	788.3	500.2	271.5	237.0	231.8	220.3	205.7	189.0	177.5	177.5
47.5°	1029.5	960.6	494.9	239.1	218.2	217.2	206.7	191.1	174.4	166.0	165.0
50°	1326.1	1198.7	503.3	216.1	201.5	204.7	196.3	181.7	168.1	160.8	159.8
52.5°	1666.5	1454.5	512.7	201.5	189.0	195.3	191.1	177.5	163.9	157.7	156.6
55°	1929.6	1662.3	499.1	187.9	176.5	185.9	185.9	173.3	161.8	155.6	155.6
57.5°	2114.4	1745.8	452.1	175.4	166.0	177.5	180.6	171.2	160.8	158.7	158.7
60°	2193.8	1741.7	369.6	163.9	158.7	169.2	177.5	169.2	162.9	168.1	169.2
62.5°	2151.0	1650.8	287.1	155.6	153.5	167.1	180.6	177.5	170.2	174.4	176.5
65°	1957.8	1491.1	216.1	148.3	147.2	168.1	189.0	182.7	165.0	166.0	167.1
66°	1849.2	1383.5	198.4	146.2	145.1	169.2	193.2	180.6	160.8	162.9	161.8
67.5°	1617.4	1214.4	174.4	142.0	141.0	169.2	198.4	176.5	155.6	158.7	155.6
70°	1186.2	859.3	149.3	136.8	134.7	166.0	197.3	168.1	144.1	142.0	136.8
72.5°	688.1	520.0	132.6	130.5	125.3	146.2	184.8	154.5	131.6	125.3	120.1
75°	338.3	264.2	118.0	123.2	109.6	128.4	167.1	143.0	121.1	112.8	109.6
77.5°	155.6	133.7	106.5	112.8	97.1	110.7	152.4	130.5	107.5	95.0	91.9
80°	84.6	83.5	89.8	94.0	81.4	97.1	134.7	113.8	90.8	77.3	73.1
82.5°	52.2	53.3	65.8	72.0	63.7	84.6	119.0	95.0	68.9	54.3	55.3
85°	27.1	30.3	43.9	48.0	41.8	62.6	89.8	63.7	38.6	28.2	28.2
87.5°	9.4	12.5	21.9	26.1	23.0	37.6	56.4	30.3	8.4	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)