

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: P573024

Luminaire Tested: **ARCH-S-PA2-20-827-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-827-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1865 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

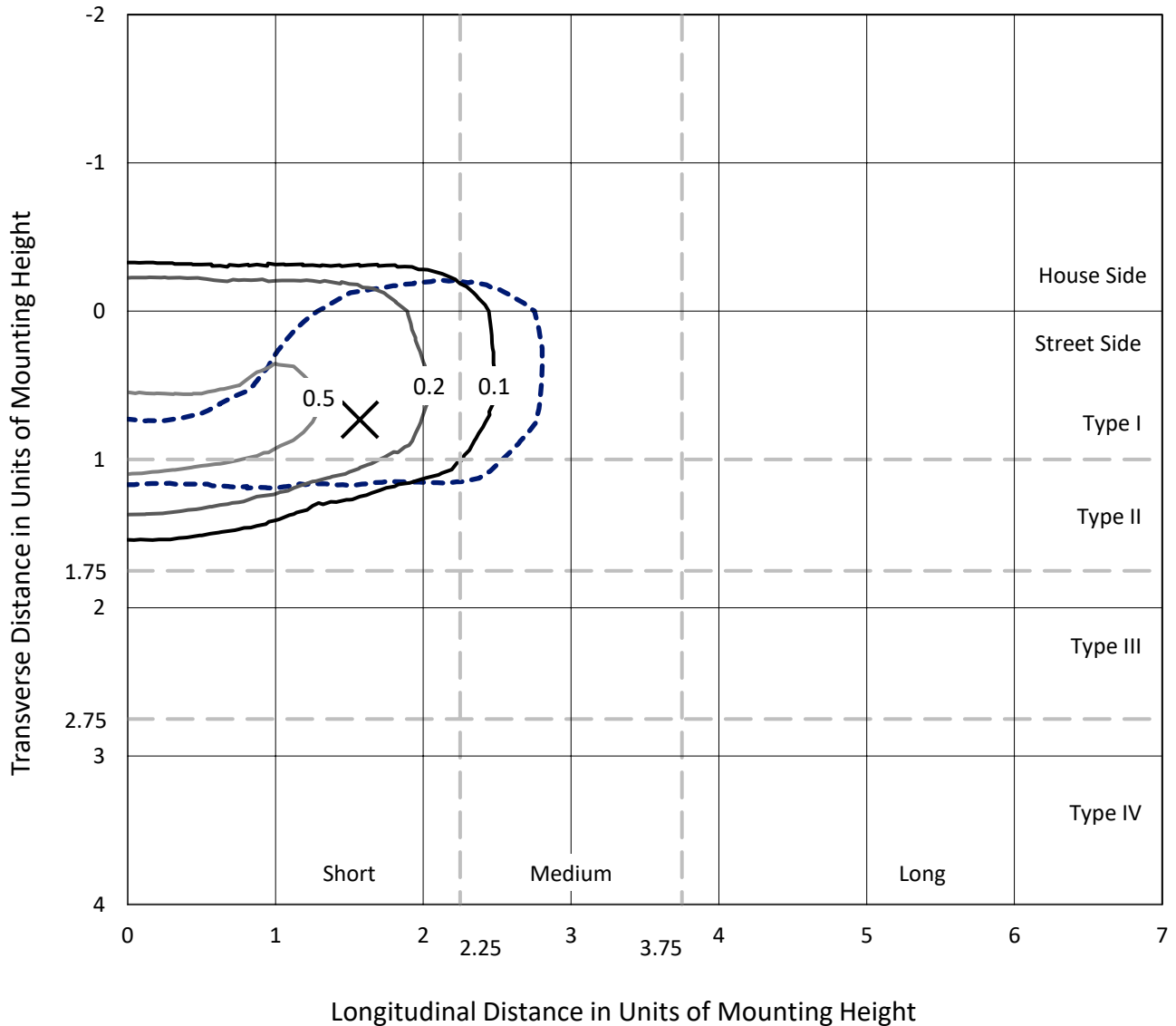
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

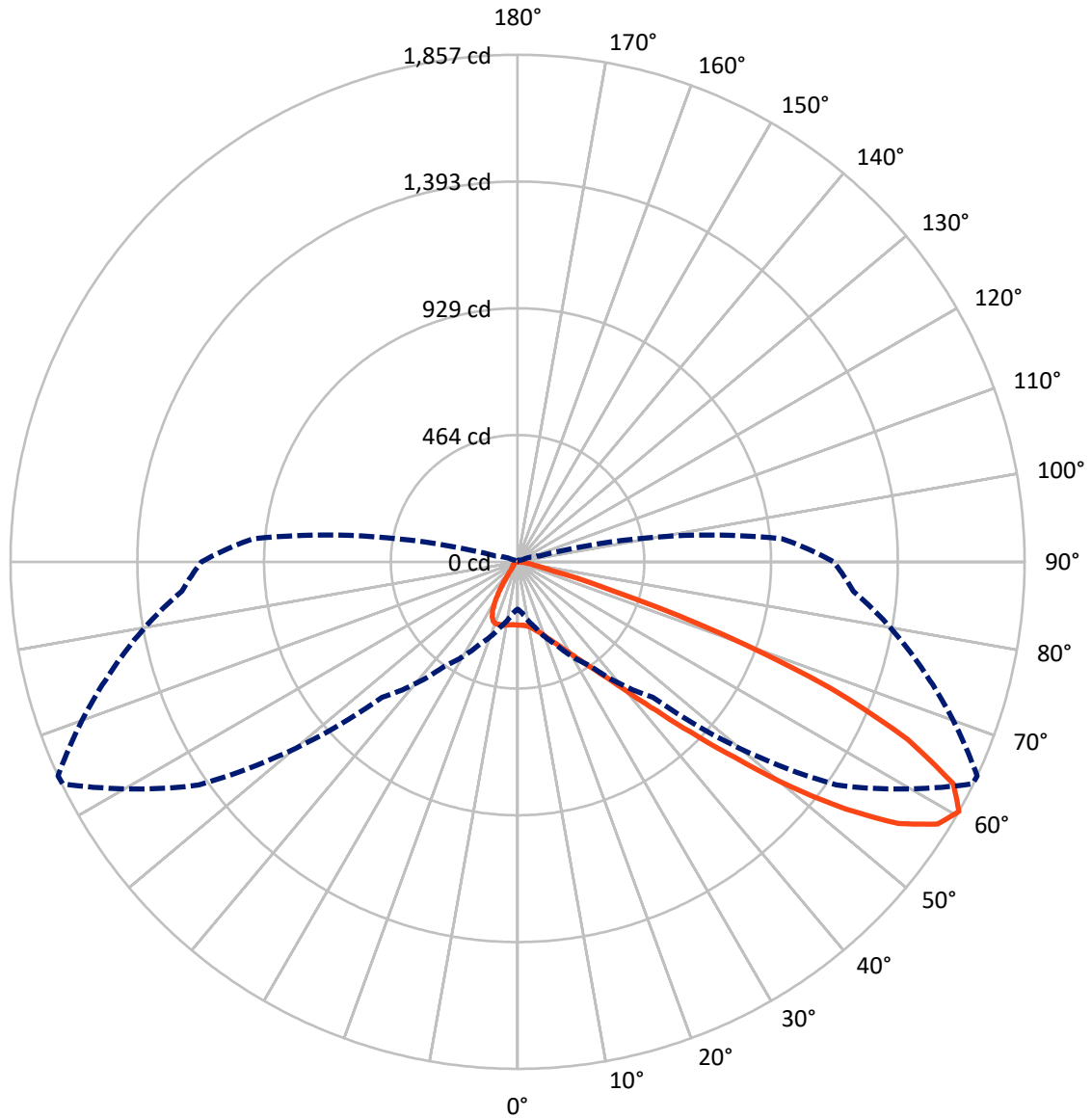
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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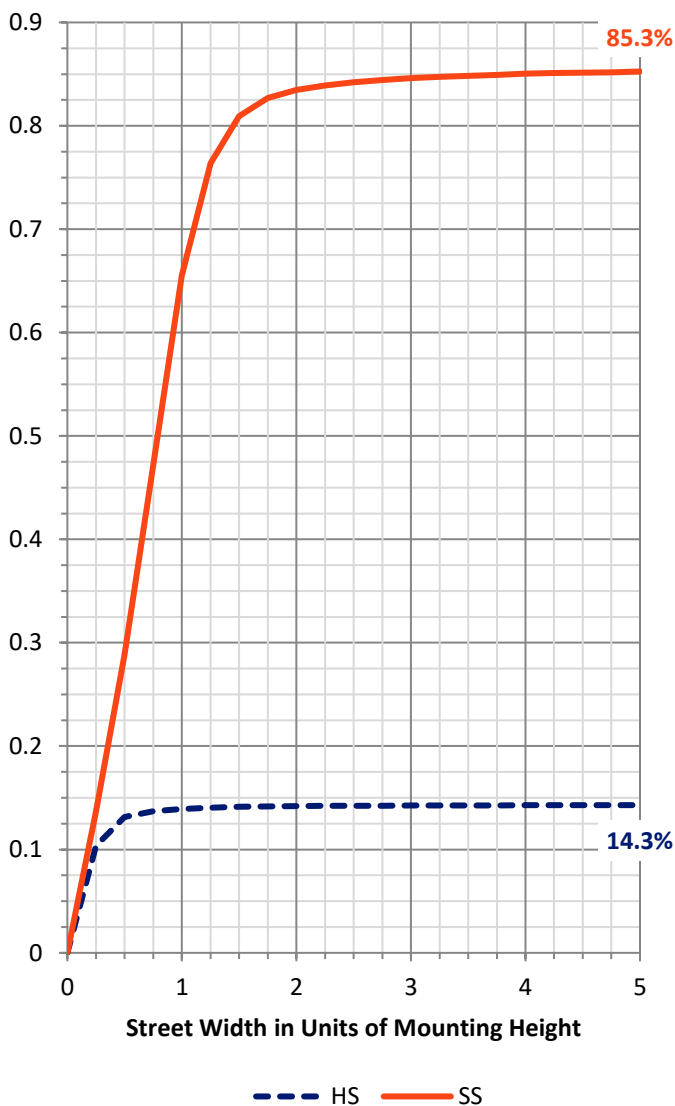
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	270.0	0.0	270.0
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	1595.0	0.0	1595.0
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	1865.0	0.0	1865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	1.2
10°-20°	62.3	3.3
20°-30°	105.8	5.7
30°-40°	218.4	11.7
40°-50°	439.1	23.5
50°-60°	537.4	28.8
60°-70°	380.2	20.4
70°-80°	91.6	4.9
80°-90°	8.3	0.4
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°	1865.0	100.0
0°-180°	1865.0	100.0

**Coefficient of Utilization**

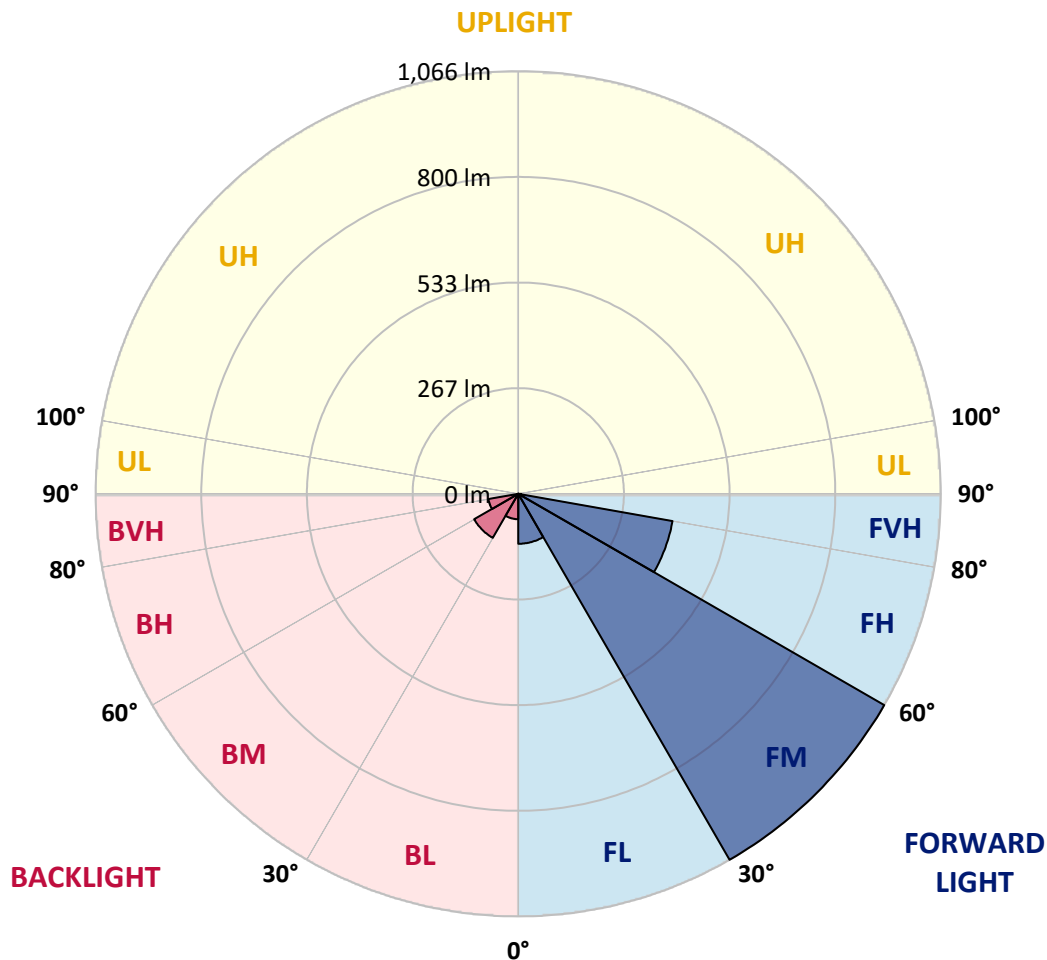


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.1	6.8			
FM (30°-60°)	1066.5	57.2			
FH (60°-80°)	395.2	21.2			G0/660
FVH (80°-90°)	7.2	0.4			G0/10
BL (0°-30°)	64.0	3.4	B0/110		
BM (30°-60°)	128.4	6.9	B0/220		
BH (60°-80°)	76.5	4.1	B0/110		G0/110
BVH (80°-90°)	1.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3
2.5°	233.1	232.3	232.3	232.3	233.1	233.1	233.8	232.3	232.3	232.3	232.3
5°	231.6	230.9	230.9	231.6	232.3	232.3	233.8	233.8	233.8	234.5	234.5
7.5°	234.5	233.1	233.1	233.8	234.5	234.5	236.0	236.7	236.7	238.2	238.9
10°	238.2	237.5	237.5	238.9	240.4	240.4	242.6	242.6	242.6	244.1	244.8
12.5°	243.4	242.6	242.6	244.8	247.0	248.5	250.0	250.7	251.4	251.4	251.4
15°	250.7	250.0	250.0	252.2	255.1	258.8	261.0	261.0	262.5	261.7	258.8
17.5°	261.0	260.3	261.0	262.5	266.2	269.8	274.2	275.0	274.2	272.8	268.4
20°	277.9	275.7	277.2	280.9	280.9	283.1	288.9	291.2	291.9	287.5	279.4
22.5°	295.6	295.6	297.0	301.4	298.5	301.4	306.6	310.3	311.7	308.1	294.8
25°	328.6	330.1	327.9	326.4	319.1	320.6	327.2	334.5	334.5	331.6	312.5
27.5°	401.4	400.0	384.5	363.2	344.1	345.6	352.2	361.7	362.5	355.9	330.1
30°	505.8	507.3	477.2	428.6	386.7	375.7	383.1	394.1	395.6	384.5	352.9
32.5°	669.1	656.6	600.7	536.0	457.3	417.6	420.6	432.3	436.7	427.2	388.9
35°	880.1	850.7	766.8	686.7	572.7	492.6	469.8	482.3	484.5	479.4	433.8
37.5°	1005.8	982.3	927.9	855.1	721.3	592.6	534.5	547.0	544.8	534.5	478.6
40°	1083.7	1070.5	1041.1	1007.3	922.0	749.9	641.1	630.8	631.6	616.9	551.4
42.5°	1127.8	1116.1	1105.0	1113.9	1088.9	1035.2	795.5	748.5	744.1	716.1	636.0
45°	1130.0	1112.4	1125.6	1177.1	1216.8	1288.1	997.0	888.2	890.4	844.0	741.1
47.5°	1045.5	1031.5	1069.8	1170.5	1302.1	1453.5	1231.5	1079.3	1069.0	977.9	847.7
50°	878.6	877.9	928.6	1071.2	1302.1	1538.8	1483.0	1303.6	1292.5	1117.5	944.8
52.5°	695.5	709.5	744.1	879.3	1182.2	1530.7	1668.2	1535.2	1504.3	1241.8	1025.6
55°	541.1	536.0	577.9	671.3	937.4	1391.1	1728.5	1717.5	1691.8	1352.1	1097.0
57.5°	332.3	351.4	408.1	491.1	682.3	1094.0	1641.8	1828.5	1813.1	1455.0	1171.2
60°	172.8	187.5	248.5	335.3	466.1	701.4	1424.9	1854.2	1857.2	1538.1	1234.4
62.5°	108.8	108.1	136.0	235.3	300.0	394.1	1106.5	1763.1	1791.0	1602.1	1294.7
65°	81.6	82.3	93.4	155.9	203.7	205.9	656.6	1524.9	1571.2	1619.0	1315.3
67.5°	75.7	76.5	81.6	102.2	152.9	137.5	288.9	1175.6	1240.3	1463.1	1235.9
70°	67.6	68.4	76.5	84.6	115.4	100.7	130.1	708.0	797.7	1061.7	988.9
72.5°	52.9	54.4	64.0	80.1	86.0	76.5	90.4	313.2	365.4	583.8	566.1
75°	39.0	39.7	48.5	61.8	75.7	54.4	69.8	124.3	136.0	219.1	186.7
77.5°	27.2	27.2	33.8	46.3	63.2	38.2	50.0	66.9	68.4	81.6	53.7
80°	16.9	17.6	21.3	31.6	39.0	36.8	30.9	44.8	44.8	42.6	22.1
82.5°	9.6	10.3	14.7	21.3	26.5	25.0	19.9	25.7	26.5	27.2	12.5
85°	4.4	5.1	8.8	13.2	15.4	11.8	11.8	13.2	13.2	17.6	7.4
87.5°	0.7	0.7	4.4	5.9	5.1	5.9	5.9	7.4	7.4	8.8	3.7
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°	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3
2.5°	231.6	231.6	231.6	230.9	230.9	230.1	228.7	228.7	228.7	228.7	229.4
5°	234.5	233.8	233.1	230.9	229.4	226.5	223.5	222.8	220.6	220.6	221.3
7.5°	238.2	238.2	236.0	232.3	228.7	223.5	218.4	214.7	211.0	210.3	209.5
10°	244.8	243.4	241.2	234.5	228.7	220.6	212.5	202.9	195.6	191.9	190.4
12.5°	250.0	249.2	244.8	237.5	227.9	215.4	197.0	175.0	157.3	147.8	147.8
15°	257.3	255.9	249.2	238.9	225.7	196.3	158.8	125.0	105.9	95.6	94.1
17.5°	264.7	261.7	253.7	239.7	216.2	161.8	111.0	80.1	66.9	61.8	60.3
20°	273.5	268.4	256.6	240.4	192.6	117.6	72.1	53.7	48.5	46.3	47.1
22.5°	285.3	276.4	259.5	236.0	157.3	76.5	50.7	43.4	40.4	38.2	38.2
25°	300.0	287.5	264.7	223.5	114.0	51.5	40.4	36.0	33.1	31.6	30.9
27.5°	313.2	297.8	269.8	201.5	72.8	40.4	33.8	30.1	27.2	26.5	25.7
30°	330.9	309.5	275.0	166.2	47.8	33.1	28.7	25.0	22.8	22.1	22.1
32.5°	361.0	332.3	284.5	126.5	36.0	28.7	24.3	21.3	19.9	19.1	19.1
35°	396.3	360.3	292.6	88.2	30.9	24.3	20.6	18.4	17.6	16.9	16.9
37.5°	433.0	393.3	294.1	55.9	27.2	21.3	18.4	16.9	15.4	15.4	15.4
40°	499.2	451.4	287.5	37.5	23.5	19.1	16.2	15.4	14.0	14.0	14.0
42.5°	576.4	522.0	270.6	30.1	21.3	16.9	15.4	14.0	12.5	12.5	11.8
45°	676.4	602.2	241.9	26.5	19.1	15.4	14.0	12.5	11.8	11.0	11.0
47.5°	770.5	693.3	214.7	23.5	17.6	14.7	12.5	11.0	10.3	10.3	10.3
50°	860.2	763.2	183.1	22.1	16.2	14.0	11.8	10.3	9.6	8.8	8.8
52.5°	924.9	818.3	153.7	19.9	14.7	12.5	11.0	9.6	8.1	7.4	7.4
55°	997.0	874.2	127.2	17.6	14.0	11.8	9.6	8.1	6.6	5.9	5.9
57.5°	1077.8	928.6	102.9	16.2	13.2	10.3	8.1	6.6	5.1	4.4	4.4
60°	1158.0	972.0	82.3	14.7	11.8	9.6	7.4	5.1	3.7	2.9	2.9
62.5°	1238.1	1001.4	63.2	13.2	11.0	8.1	5.9	3.7	2.2	1.5	1.5
65°	1271.2	993.3	47.1	11.8	9.6	6.6	5.1	3.7	2.2	1.5	1.5
67.5°	1179.3	893.3	33.1	11.8	8.8	6.6	4.4	2.9	1.5	0.7	0.7
70°	920.5	689.6	24.3	11.8	8.8	6.6	4.4	2.9	1.5	0.7	0.7
72.5°	522.0	383.8	18.4	10.3	8.1	5.9	4.4	2.9	1.5	0.7	0.7
75°	186.0	123.5	14.0	9.6	7.4	5.1	4.4	2.9	1.5	0.7	0.7
77.5°	44.8	31.6	11.0	8.1	6.6	5.1	3.7	2.9	2.2	0.7	0.7
80°	18.4	13.2	8.8	6.6	5.1	4.4	3.7	2.9	1.5	0.7	0.7
82.5°	8.1	6.6	3.7	3.7	2.9	2.9	2.9	2.9	1.5	0.7	0.7
85°	3.7	2.9	1.5	1.5	0.7	0.7	0.7	1.5	1.5	0.7	0.7
87.5°	2.2	1.5	1.5	1.5	0.7	0.7	0.7	0.0	0.0	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)