

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: P572968

Luminaire Tested: **ARCH-S-PA2-20-727-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-727-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

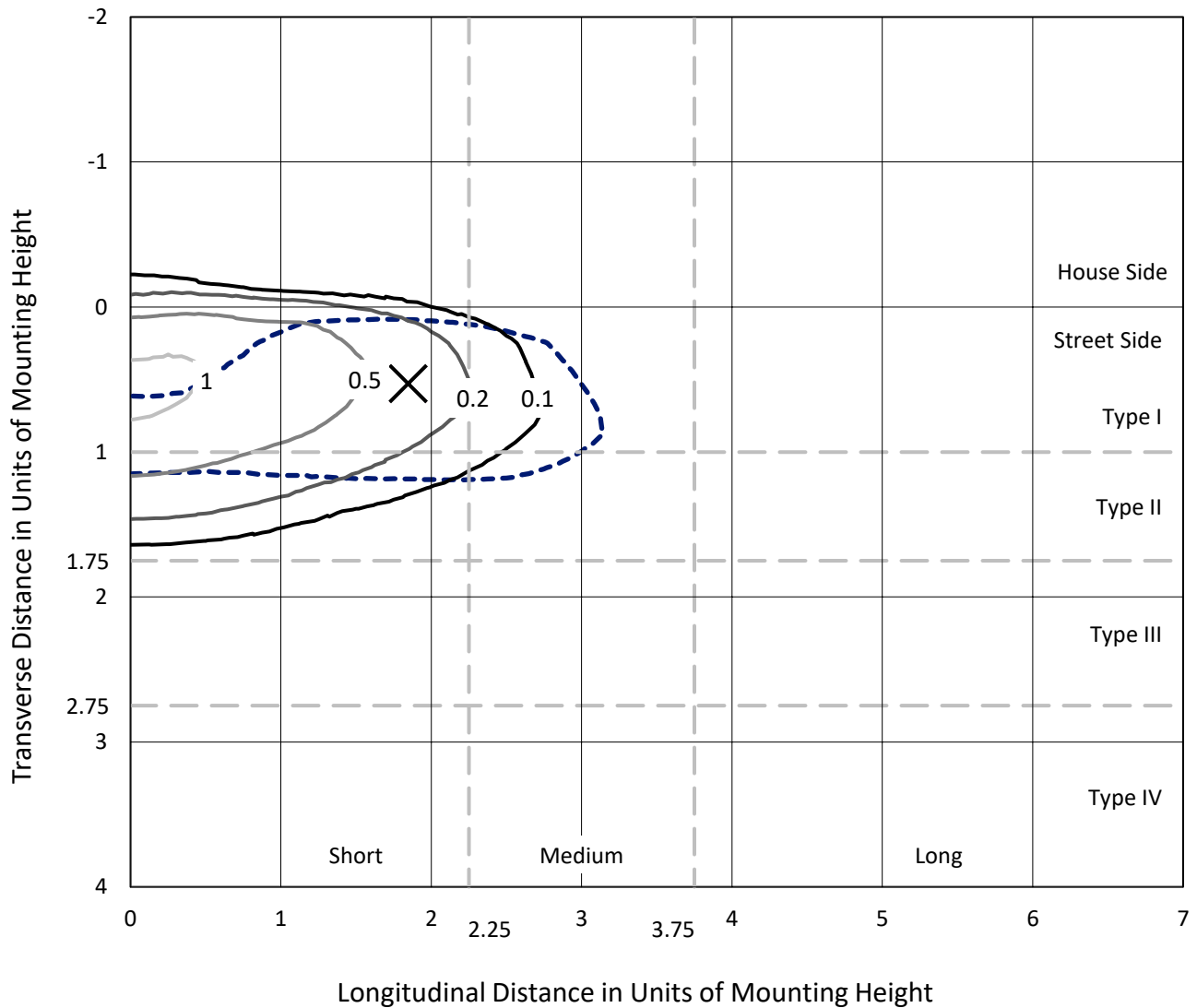
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

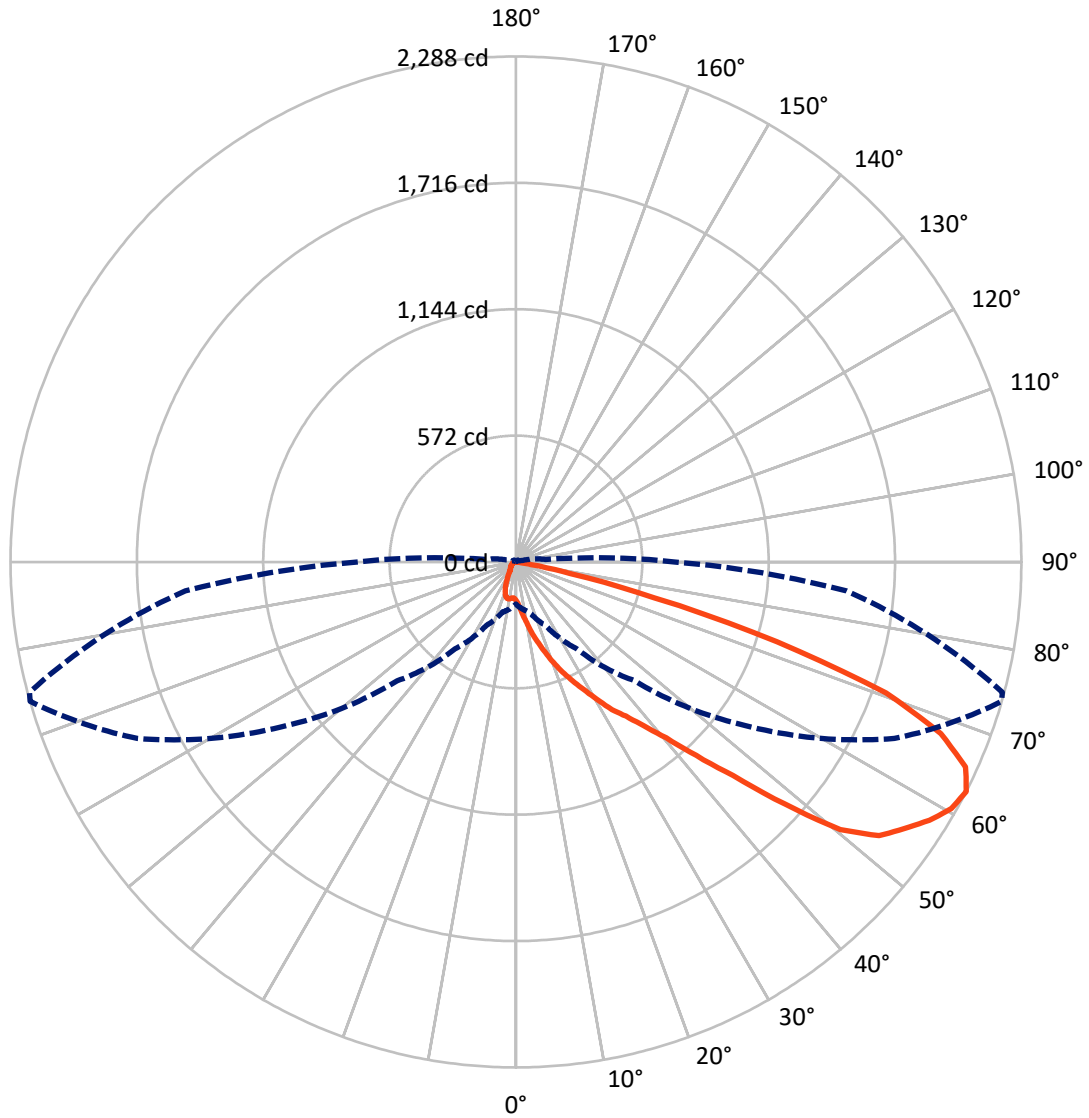
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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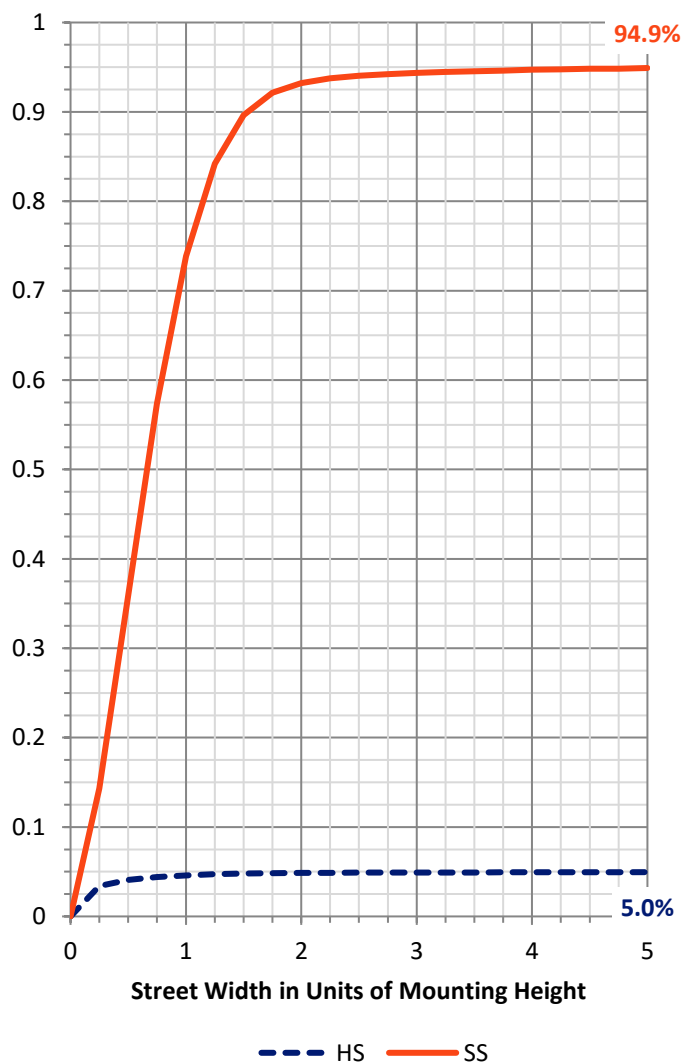
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	118.5	0.0	118.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	2257.5	0.0	2257.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	2376.0	0.0	2376.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.8	0.9
10°-20°	91.4	3.8
20°-30°	196.1	8.3
30°-40°	343.9	14.5
40°-50°	533.1	22.4
50°-60°	614.6	25.9
60°-70°	431.8	18.2
70°-80°	134.5	5.7
80°-90°	8.9	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°	2376.0	100.0
0°-180°	2376.0	100.0

**Coefficient of Utilization**

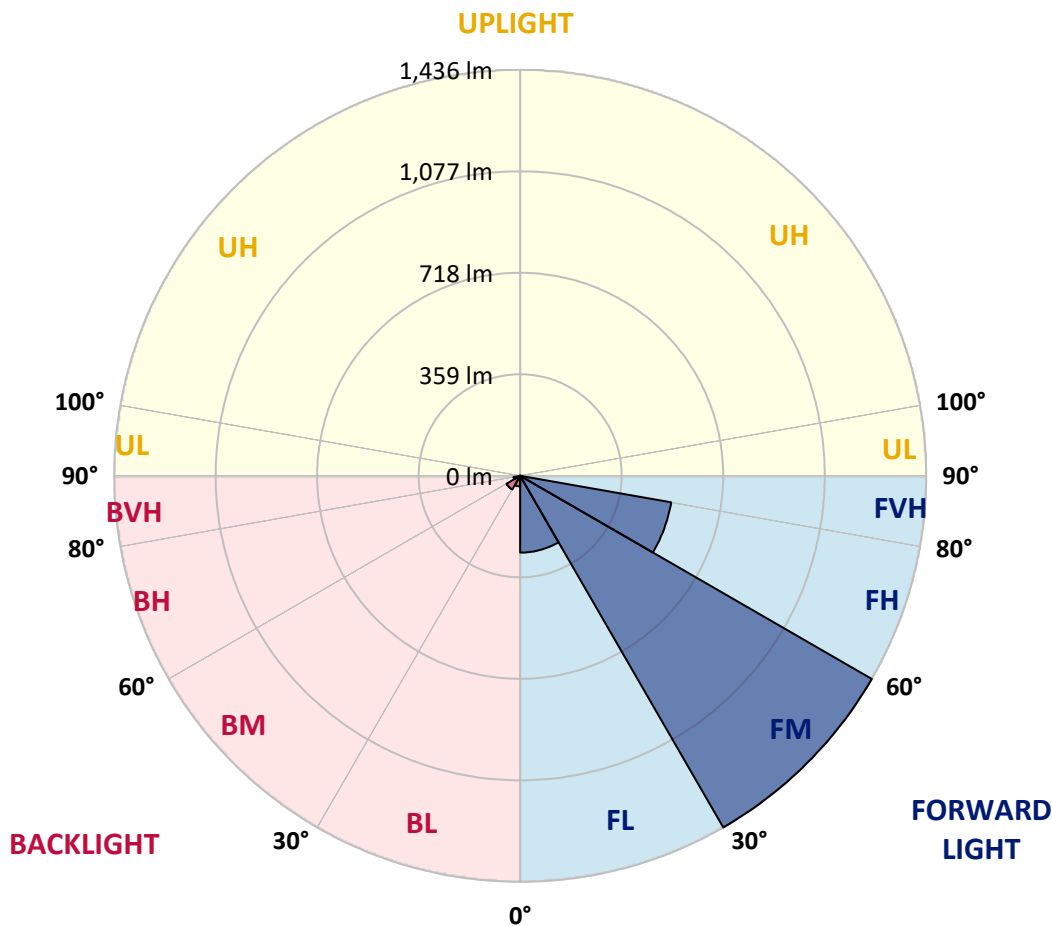


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.6	11.4			
FM (30°-60°)	1435.9	60.4			
FH (60°-80°)	542.3	22.8			G0/660
FVH (80°-90°)	7.7	0.3			G0/10
BL (0°-30°)	37.6	1.6	B0/110		
BM (30°-60°)	55.7	2.3	B0/220		
BH (60°-80°)	24.0	1.0	B0/110		G0/110
BVH (80°-90°)	1.2	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°	65°	74°	75°	85°
0°	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9
2.5°	241.7	237.5	232.5	228.3	219.9	214.1	206.5	198.2	189.0	188.1	180.6
5°	338.7	326.1	326.1	315.2	302.7	280.1	259.2	233.3	214.1	212.4	192.3
7.5°	438.2	428.1	422.3	405.6	385.5	360.4	327.0	283.5	248.4	242.5	209.9
10°	531.0	523.5	512.6	499.2	481.7	440.7	398.9	342.0	286.0	281.8	230.8
12.5°	602.9	593.7	588.7	582.8	560.3	527.6	473.3	401.4	334.5	325.3	251.7
15°	657.3	653.1	648.1	648.1	636.4	604.6	548.5	464.9	381.3	370.4	278.5
17.5°	700.7	695.7	694.9	699.9	696.6	674.0	621.3	526.0	429.8	421.4	306.1
20°	749.2	742.5	742.5	746.7	745.9	733.4	687.4	596.2	486.7	471.6	337.8
22.5°	817.8	813.6	810.3	803.6	798.6	786.9	746.7	664.8	541.0	526.8	370.4
25°	909.8	904.8	889.7	878.0	856.3	838.7	804.4	725.8	596.2	580.3	402.2
27.5°	999.3	989.2	975.0	960.0	935.7	905.6	863.0	783.5	653.9	637.2	434.8
30°	1093.8	1086.2	1068.7	1044.4	1014.3	980.9	929.9	852.9	720.0	701.6	469.9
32.5°	1169.0	1157.3	1141.4	1118.0	1087.1	1063.7	1008.5	929.0	796.1	771.8	506.7
35°	1229.2	1220.0	1199.1	1176.5	1153.1	1146.4	1086.2	990.9	857.1	834.5	546.0
37.5°	1267.7	1258.5	1240.9	1218.3	1209.2	1220.9	1181.6	1075.4	939.1	910.6	591.2
40°	1297.8	1286.9	1272.7	1262.7	1259.3	1291.9	1287.8	1184.9	1046.9	1030.2	653.1
42.5°	1319.5	1308.7	1299.5	1298.6	1320.4	1383.9	1430.7	1337.9	1197.4	1163.2	732.5
45°	1291.9	1282.7	1287.8	1317.0	1369.7	1470.0	1603.8	1554.5	1378.9	1354.7	859.6
47.5°	1215.0	1209.2	1231.7	1285.2	1383.1	1522.7	1771.1	1792.0	1638.1	1601.3	1024.4
50°	1094.6	1093.8	1129.7	1202.5	1341.3	1542.8	1855.5	2020.3	1904.0	1866.4	1158.1
52.5°	931.5	928.2	980.9	1082.0	1242.6	1505.2	1871.4	2111.4	2057.9	2013.6	1242.6
55°	746.7	739.2	801.9	913.1	1097.1	1395.6	1828.8	2131.5	2131.5	2091.3	1305.3
57.5°	525.1	536.8	588.7	722.5	917.3	1231.7	1723.4	2113.1	2205.9	2171.6	1389.8
60°	331.1	336.2	393.0	500.9	695.7	1012.6	1535.3	2033.6	2265.3	2245.2	1457.5
62.5°	190.7	206.5	235.0	316.9	480.0	760.9	1302.8	1890.7	2287.9	2279.5	1501.8
65°	116.2	117.9	131.3	178.9	295.2	519.3	1042.7	1691.6	2236.8	2244.4	1493.5
67.5°	87.0	87.0	91.1	112.9	168.1	330.3	769.3	1450.0	2073.8	2098.0	1414.9
70°	75.3	75.3	76.1	82.8	103.7	195.7	508.4	1169.0	1777.8	1775.3	1169.0
72.5°	59.4	61.9	66.9	70.2	78.6	114.6	297.7	817.0	1235.1	1264.3	752.6
75°	47.7	48.5	55.2	61.0	66.1	77.8	140.5	454.1	648.1	648.1	331.1
77.5°	36.8	38.5	42.6	48.5	55.2	55.2	58.5	175.6	250.9	242.5	97.8
80°	23.4	24.2	30.9	38.5	46.0	39.3	31.8	58.5	68.6	66.1	26.8
82.5°	14.2	15.1	20.1	30.9	30.9	21.7	20.1	24.2	21.7	20.1	10.9
85°	4.2	5.0	14.2	20.1	17.6	8.4	10.0	10.9	10.0	9.2	5.9
87.5°	0.8	0.8	4.2	5.0	4.2	4.2	3.3	4.2	4.2	4.2	2.5
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°	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9
2.5°	176.4	173.1	166.4	161.4	157.2	153.0	149.7	148.8	147.2	147.2	146.3
5°	184.0	176.4	163.9	155.5	148.8	143.0	138.0	133.0	131.3	129.6	130.4
7.5°	195.7	184.0	166.4	153.9	142.2	128.8	117.9	108.7	102.0	100.3	97.8
10°	210.7	193.2	170.6	150.5	128.8	105.4	90.3	81.1	77.8	73.6	74.4
12.5°	225.8	204.0	173.9	141.3	106.2	82.8	70.2	64.4	61.9	61.0	61.9
15°	243.3	215.7	172.3	124.6	85.3	66.9	59.4	56.9	55.2	55.2	54.4
17.5°	260.9	225.8	166.4	102.9	68.6	56.9	53.5	51.0	49.3	48.5	48.5
20°	280.1	235.0	153.0	81.9	56.9	51.8	48.5	45.2	43.5	43.5	43.5
22.5°	300.2	241.7	135.5	65.2	51.0	46.0	42.6	40.1	38.5	38.5	38.5
25°	317.8	245.0	114.6	54.4	46.8	41.8	38.5	36.0	35.1	34.3	34.3
27.5°	334.5	244.2	92.8	47.7	41.8	37.6	34.3	32.6	30.9	30.9	30.9
30°	351.2	239.2	73.6	43.5	38.5	33.4	30.9	29.3	28.4	27.6	27.6
32.5°	365.4	230.8	57.7	40.1	35.1	30.1	27.6	25.9	25.9	25.1	25.1
35°	379.6	218.2	48.5	37.6	31.8	27.6	25.1	24.2	23.4	23.4	23.4
37.5°	394.7	202.4	42.6	34.3	28.4	25.1	23.4	22.6	21.7	20.9	20.9
40°	413.1	186.5	40.1	31.8	25.9	22.6	20.9	20.1	19.2	19.2	19.2
42.5°	442.4	173.1	37.6	28.4	23.4	20.9	19.2	17.6	17.6	16.7	16.7
45°	497.5	168.1	35.1	25.9	21.7	18.4	17.6	15.9	15.1	15.1	15.1
47.5°	569.5	168.9	32.6	23.4	20.1	16.7	15.9	15.1	13.4	13.4	13.4
50°	628.8	164.7	30.1	21.7	17.6	15.9	14.2	13.4	12.5	12.5	12.5
52.5°	652.2	157.2	27.6	20.1	16.7	14.2	13.4	12.5	11.7	11.7	11.7
55°	675.7	153.9	25.1	17.6	15.1	14.2	12.5	11.7	10.9	10.0	10.0
57.5°	718.3	155.5	22.6	16.7	14.2	13.4	11.7	10.0	8.4	7.5	7.5
60°	740.9	149.7	20.9	15.1	13.4	12.5	10.0	7.5	5.9	5.0	5.0
62.5°	721.6	133.0	19.2	14.2	12.5	10.9	7.5	5.9	4.2	2.5	2.5
65°	668.1	109.5	17.6	13.4	10.9	8.4	6.7	4.2	2.5	1.7	1.7
67.5°	600.4	86.1	15.9	12.5	10.0	7.5	5.9	3.3	1.7	0.8	0.8
70°	485.0	61.9	15.1	11.7	9.2	6.7	5.0	3.3	1.7	0.8	0.8
72.5°	312.7	40.1	13.4	10.9	8.4	6.7	4.2	2.5	1.7	0.8	0.8
75°	144.7	26.8	12.5	10.0	8.4	5.9	4.2	3.3	1.7	0.8	0.8
77.5°	42.6	19.2	11.7	9.2	7.5	5.9	4.2	3.3	1.7	0.8	0.8
80°	17.6	13.4	9.2	8.4	7.5	5.9	4.2	3.3	1.7	0.8	0.8
82.5°	8.4	5.9	4.2	3.3	4.2	4.2	3.3	3.3	1.7	0.8	0.8
85°	4.2	2.5	1.7	1.7	1.7	0.8	0.8	1.7	1.7	0.8	0.8
87.5°	2.5	1.7	1.7	1.7	0.8	0.8	0.8	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)