

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: P573373

Luminaire Tested: **ARCH-S-PA2-70-727-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573373  
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-PA2-70-727-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

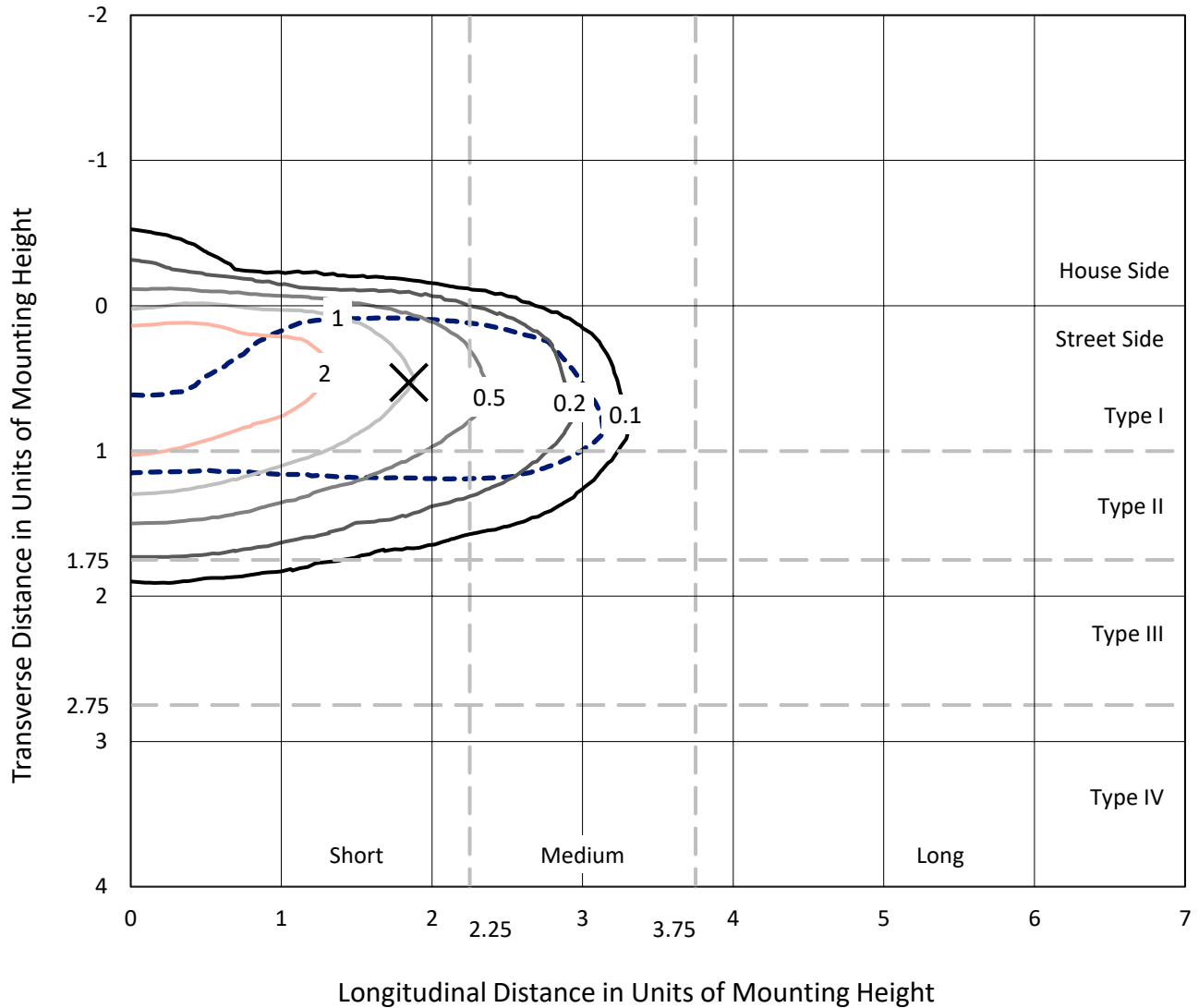
Lumens per Lamp: N/A  
Luminaire Lumens: 6888 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

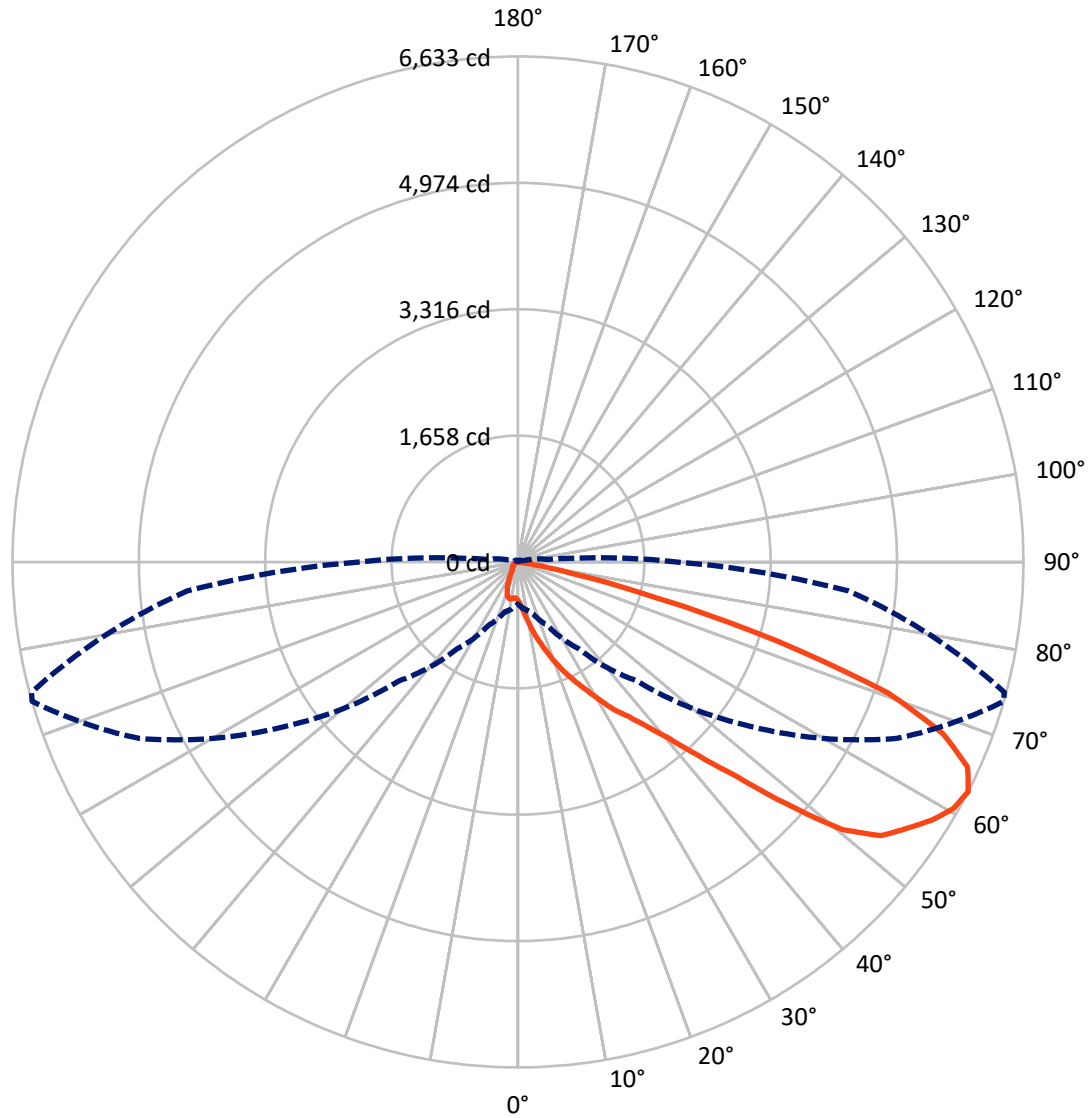
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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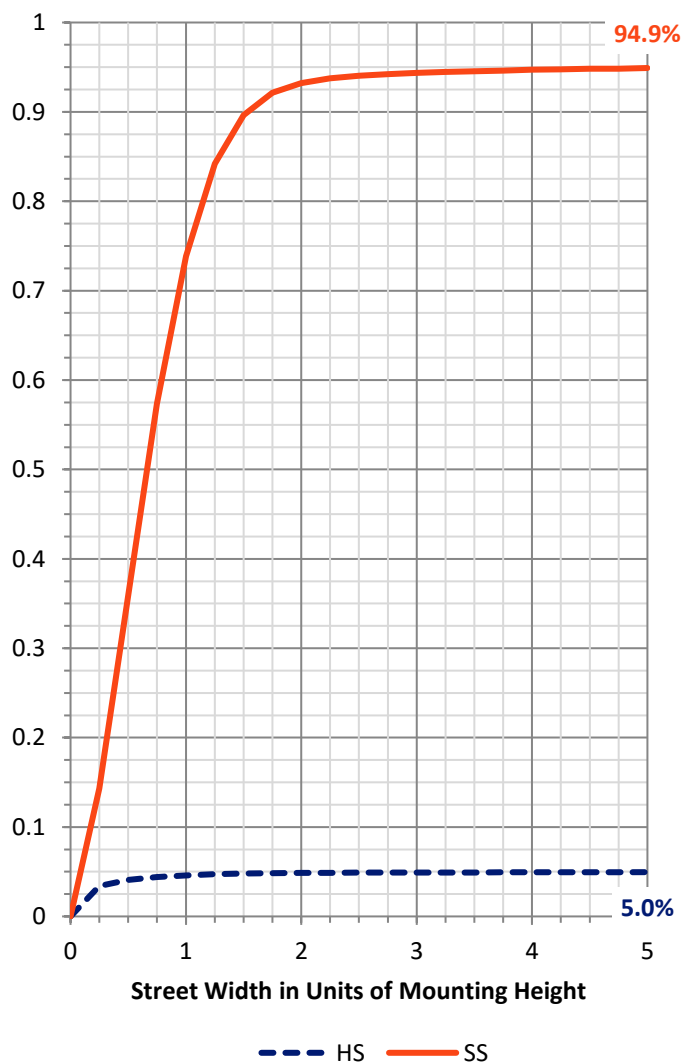
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	343.5	0.0	343.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6544.5	0.0	6544.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6888.0	0.0	6888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	0.9
10°-20°	264.9	3.8
20°-30°	568.4	8.3
30°-40°	996.9	14.5
40°-50°	1545.5	22.4
50°-60°	1781.7	25.9
60°-70°	1251.7	18.2
70°-80°	390.0	5.7
80°-90°	25.8	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°	6888.0	100.0
0°-180°	6888.0	100.0

**Coefficient of Utilization**

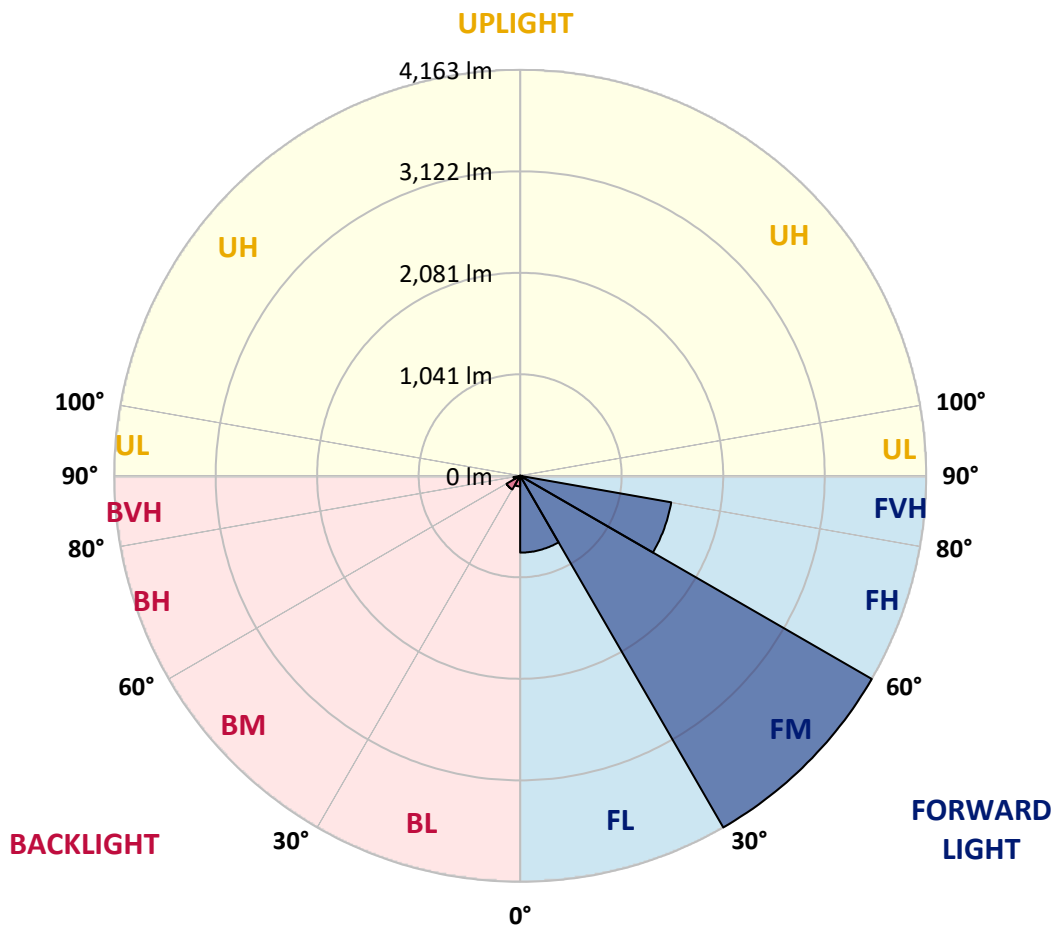


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.3	11.4			
FM (30°-60°)	4162.7	60.4			
FH (60°-80°)	1572.2	22.8			G1/1800
FVH (80°-90°)	22.2	0.3			G1/100
BL (0°-30°)	109.0	1.6	B0/110		
BM (30°-60°)	161.4	2.3	B0/220		
BH (60°-80°)	69.5	1.0	B0/110		G0/110
BVH (80°-90°)	3.5	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	700.6	688.5	673.9	661.8	637.6	620.6	598.8	574.5	547.9	545.4	523.6
5°	981.8	945.4	945.4	913.9	877.5	812.1	751.5	676.3	620.6	615.7	557.6
7.5°	1270.3	1241.2	1224.2	1175.7	1117.5	1044.8	947.8	821.8	720.0	703.0	608.5
10°	1539.3	1517.5	1486.0	1447.2	1396.3	1277.5	1156.3	991.5	829.1	816.9	669.1
12.5°	1747.8	1721.1	1706.6	1689.6	1624.2	1529.6	1372.1	1163.6	969.7	943.0	729.7
15°	1905.4	1893.3	1878.7	1878.7	1844.8	1752.7	1590.2	1347.8	1105.4	1073.9	807.2
17.5°	2031.4	2016.9	2014.5	2029.0	2019.3	1953.9	1801.1	1524.8	1246.0	1221.8	887.2
20°	2172.0	2152.6	2152.6	2164.8	2162.3	2126.0	1992.6	1728.4	1410.9	1367.2	979.4
22.5°	2370.8	2358.7	2349.0	2329.6	2315.1	2281.1	2164.8	1927.2	1568.4	1527.2	1073.9
25°	2637.5	2622.9	2579.3	2545.4	2482.3	2431.4	2332.0	2104.2	1728.4	1682.4	1166.0
27.5°	2896.9	2867.8	2826.6	2782.9	2712.6	2625.4	2501.7	2271.4	1895.7	1847.2	1260.6
30°	3170.8	3149.0	3098.1	3027.8	2940.5	2843.5	2695.7	2472.6	2087.2	2033.9	1362.4
32.5°	3389.0	3355.0	3309.0	3241.1	3151.4	3083.5	2923.5	2693.2	2307.8	2237.5	1469.0
35°	3563.5	3536.8	3476.2	3410.8	3342.9	3323.5	3149.0	2872.6	2484.8	2419.3	1583.0
37.5°	3675.0	3648.3	3597.4	3532.0	3505.3	3539.3	3425.3	3117.5	2722.3	2639.9	1713.9
40°	3762.3	3730.8	3689.6	3660.5	3650.8	3745.3	3733.2	3435.0	3035.0	2986.5	1893.3
42.5°	3825.3	3793.8	3767.1	3764.7	3827.7	4012.0	4147.7	3878.6	3471.4	3372.0	2123.6
45°	3745.3	3718.6	3733.2	3818.0	3970.8	4261.7	4649.5	4506.5	3997.4	3927.1	2492.0
47.5°	3522.3	3505.3	3570.8	3725.9	4009.5	4414.4	5134.3	5194.9	4748.9	4642.2	2969.6
50°	3173.2	3170.8	3275.0	3485.9	3888.3	4472.6	5379.2	5856.7	5519.8	5410.7	3357.4
52.5°	2700.5	2690.8	2843.5	3136.8	3602.3	4363.5	5425.2	6121.0	5965.8	5837.3	3602.3
55°	2164.8	2142.9	2324.8	2647.2	3180.5	4045.9	5301.6	6179.2	6179.2	6062.8	3784.1
57.5°	1522.4	1556.3	1706.6	2094.5	2659.3	3570.8	4996.2	6125.8	6394.9	6295.5	4028.9
60°	960.0	974.5	1139.3	1452.1	2016.9	2935.6	4450.7	5895.5	6567.0	6508.8	4225.3
62.5°	552.7	598.8	681.2	918.8	1391.5	2206.0	3776.8	5481.0	6632.5	6608.2	4353.8
65°	337.0	341.8	380.6	518.8	855.7	1505.4	3022.9	4904.1	6484.6	6506.4	4329.5
67.5°	252.1	252.1	264.2	327.3	487.3	957.5	2230.2	4203.5	6011.9	6082.2	4101.7
70°	218.2	218.2	220.6	240.0	300.6	567.3	1473.9	3389.0	5153.7	5146.5	3389.0
72.5°	172.1	179.4	193.9	203.6	227.9	332.1	863.0	2368.4	3580.5	3665.3	2181.7
75°	138.2	140.6	160.0	177.0	191.5	225.4	407.3	1316.3	1878.7	1878.7	960.0
77.5°	106.7	111.5	123.6	140.6	160.0	160.0	169.7	509.1	727.2	703.0	283.6
80°	67.9	70.3	89.7	111.5	133.3	113.9	92.1	169.7	198.8	191.5	77.6
82.5°	41.2	43.6	58.2	89.7	89.7	63.0	58.2	70.3	63.0	58.2	31.5
85°	12.1	14.5	41.2	58.2	50.9	24.2	29.1	31.5	29.1	26.7	17.0
87.5°	2.4	2.4	12.1	14.5	12.1	12.1	9.7	12.1	12.1	12.1	7.3
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°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	511.5	501.8	482.4	467.9	455.7	443.6	433.9	431.5	426.6	426.6	424.2
5°	533.3	511.5	475.1	450.9	431.5	414.5	400.0	385.4	380.6	375.7	378.2
7.5°	567.3	533.3	482.4	446.0	412.1	373.3	341.8	315.1	295.7	290.9	283.6
10°	610.9	560.0	494.5	436.3	373.3	305.4	261.8	235.1	225.4	213.3	215.7
12.5°	654.5	591.5	504.2	409.7	307.9	240.0	203.6	186.7	179.4	177.0	179.4
15°	705.4	625.4	499.4	361.2	247.3	193.9	172.1	164.8	160.0	160.0	157.6
17.5°	756.3	654.5	482.4	298.2	198.8	164.8	155.1	147.9	143.0	140.6	140.6
20°	812.1	681.2	443.6	237.6	164.8	150.3	140.6	130.9	126.1	126.1	126.1
22.5°	870.3	700.6	392.7	189.1	147.9	133.3	123.6	116.4	111.5	111.5	111.5
25°	921.2	710.3	332.1	157.6	135.8	121.2	111.5	104.2	101.8	99.4	99.4
27.5°	969.7	707.9	269.1	138.2	121.2	109.1	99.4	94.5	89.7	89.7	89.7
30°	1018.1	693.3	213.3	126.1	111.5	97.0	89.7	84.8	82.4	80.0	80.0
32.5°	1059.4	669.1	167.3	116.4	101.8	87.3	80.0	75.1	75.1	72.7	72.7
35°	1100.6	632.7	140.6	109.1	92.1	80.0	72.7	70.3	67.9	67.9	67.9
37.5°	1144.2	586.6	123.6	99.4	82.4	72.7	67.9	65.5	63.0	60.6	60.6
40°	1197.5	540.6	116.4	92.1	75.1	65.5	60.6	58.2	55.8	55.8	55.8
42.5°	1282.4	501.8	109.1	82.4	67.9	60.6	55.8	50.9	50.9	48.5	48.5
45°	1442.4	487.3	101.8	75.1	63.0	53.3	50.9	46.1	43.6	43.6	43.6
47.5°	1650.8	489.7	94.5	67.9	58.2	48.5	46.1	43.6	38.8	38.8	38.8
50°	1823.0	477.6	87.3	63.0	50.9	46.1	41.2	38.8	36.4	36.4	36.4
52.5°	1890.8	455.7	80.0	58.2	48.5	41.2	38.8	36.4	33.9	33.9	33.9
55°	1958.7	446.0	72.7	50.9	43.6	41.2	36.4	33.9	31.5	29.1	29.1
57.5°	2082.3	450.9	65.5	48.5	41.2	38.8	33.9	29.1	24.2	21.8	21.8
60°	2147.8	433.9	60.6	43.6	38.8	36.4	29.1	21.8	17.0	14.5	14.5
62.5°	2092.0	385.4	55.8	41.2	36.4	31.5	21.8	17.0	12.1	7.3	7.3
65°	1936.9	317.6	50.9	38.8	31.5	24.2	19.4	12.1	7.3	4.8	4.8
67.5°	1740.5	249.7	46.1	36.4	29.1	21.8	17.0	9.7	4.8	2.4	2.4
70°	1406.0	179.4	43.6	33.9	26.7	19.4	14.5	9.7	4.8	2.4	2.4
72.5°	906.6	116.4	38.8	31.5	24.2	19.4	12.1	7.3	4.8	2.4	2.4
75°	419.4	77.6	36.4	29.1	24.2	17.0	12.1	9.7	4.8	2.4	2.4
77.5°	123.6	55.8	33.9	26.7	21.8	17.0	12.1	9.7	4.8	2.4	2.4
80°	50.9	38.8	26.7	24.2	21.8	17.0	12.1	9.7	4.8	2.4	2.4
82.5°	24.2	17.0	12.1	9.7	12.1	12.1	9.7	9.7	4.8	2.4	2.4
85°	12.1	7.3	4.8	4.8	4.8	2.4	2.4	4.8	4.8	2.4	2.4
87.5°	7.3	4.8	4.8	4.8	2.4	2.4	2.4	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)