

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: P572726

Luminaire Tested: **ARCH-S-PA2-110-727-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-110-727-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12620 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

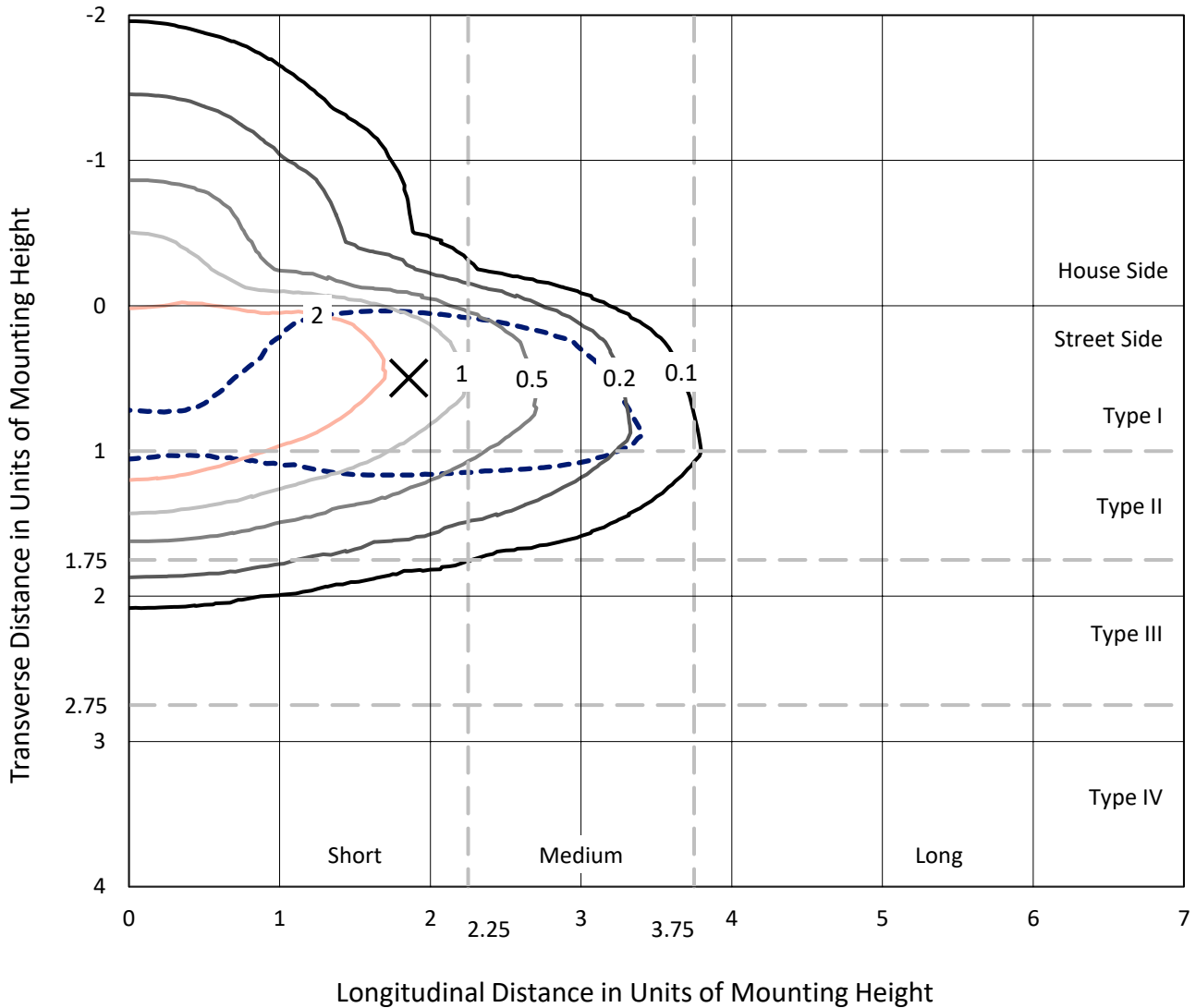
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

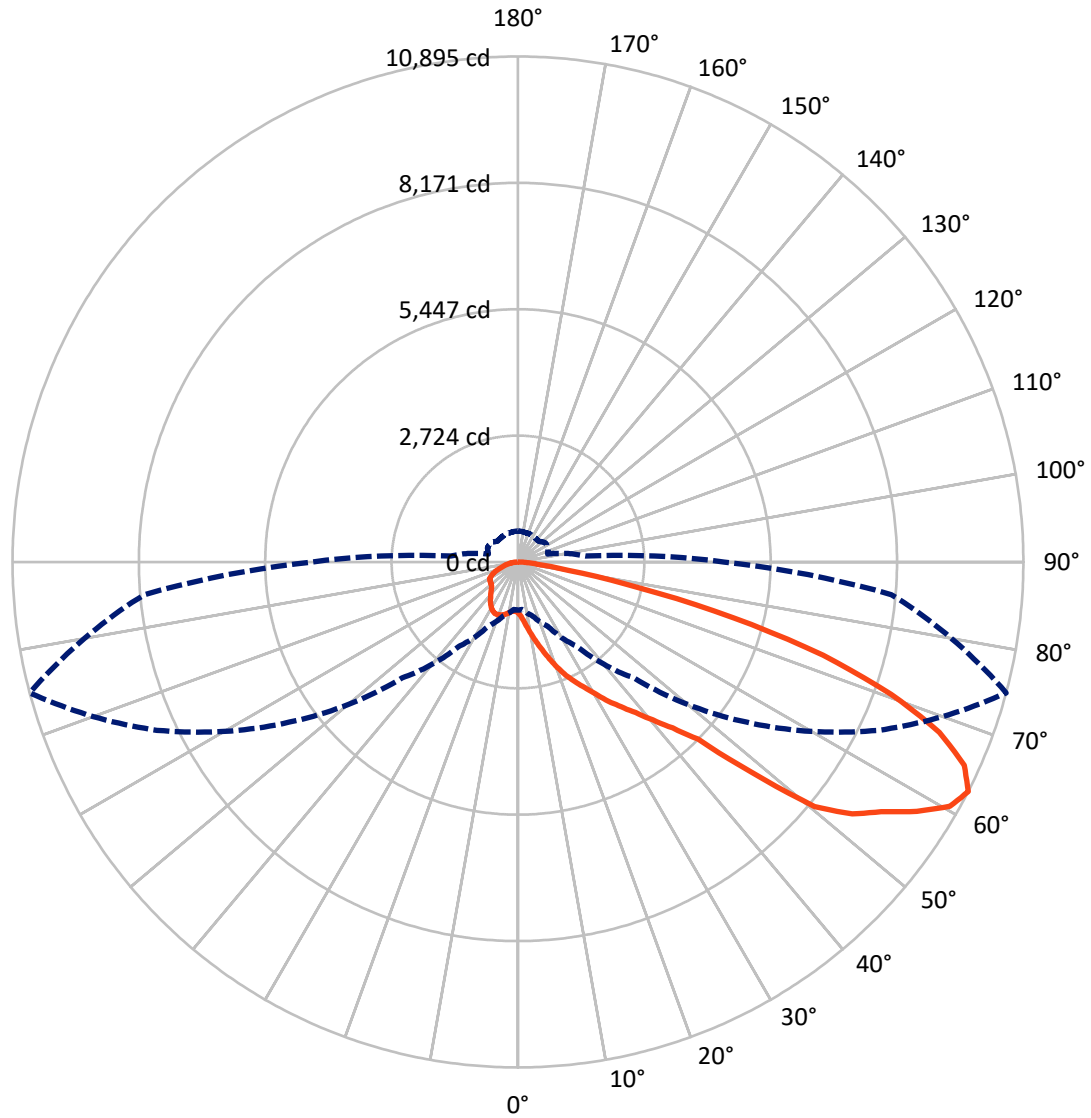
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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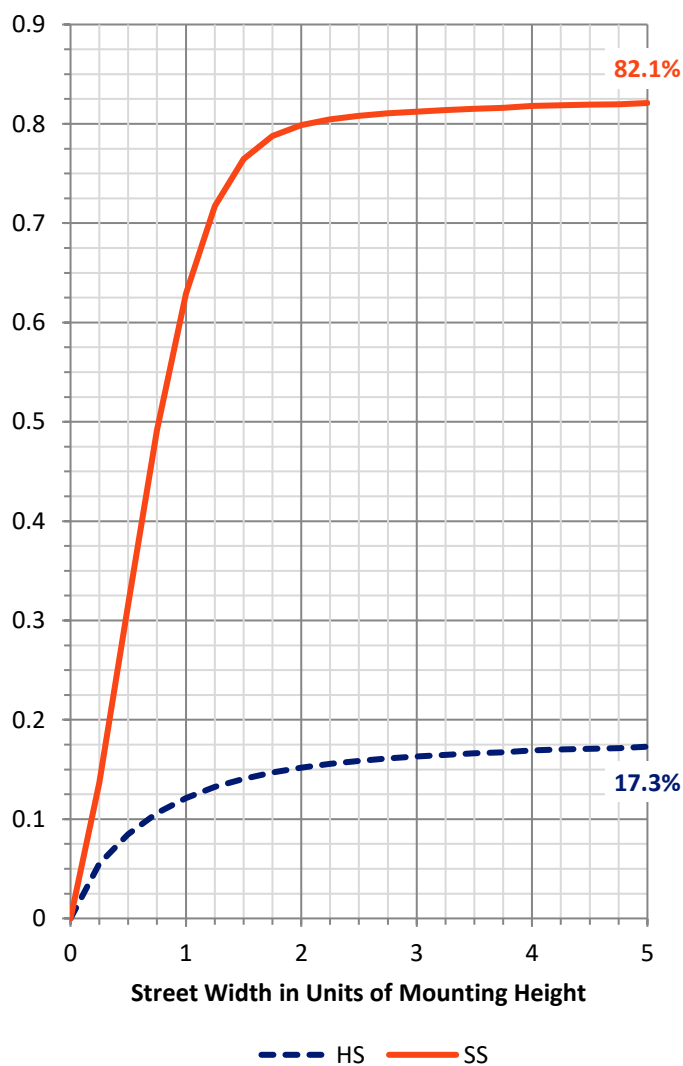
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2225.8	0.0	2225.8
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	10394.2	0.0	10394.2
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	12620.0	0.0	12620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	1.0
10°-20°	522.2	4.1
20°-30°	1033.1	8.2
30°-40°	1722.1	13.6
40°-50°	2541.2	20.1
50°-60°	3054.7	24.2
60°-70°	2374.1	18.8
70°-80°	1050.3	8.3
80°-90°	190.1	1.5
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°	12620.0	100.0
0°-180°	12620.0	100.0

**Coefficient of Utilization**

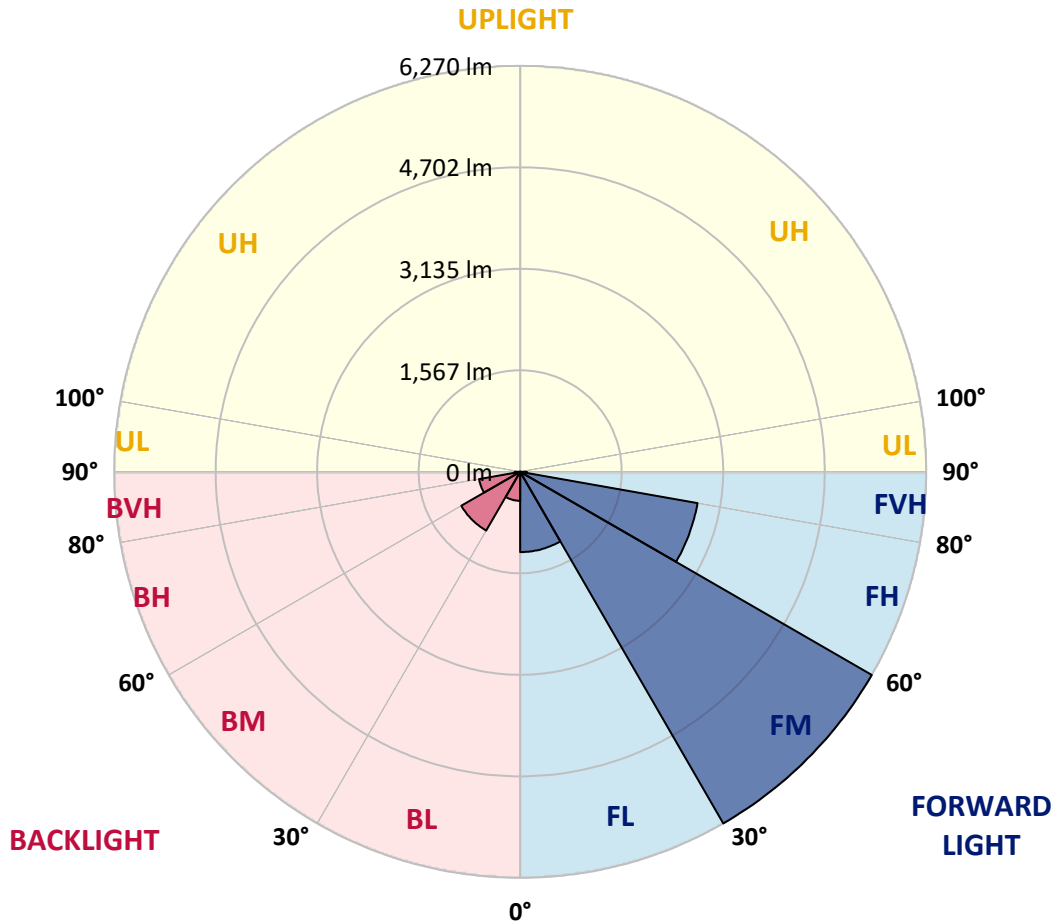


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.6	9.8			
FM (30°-60°)	6269.6	49.7			
FH (60°-80°)	2780.4	22.0			G2/5000
FVH (80°-90°)	104.5	0.8			G2/225
BL (0°-30°)	447.9	3.5	B1/500		
BM (30°-60°)	1048.3	8.3	B2/2500		
BH (60°-80°)	644.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	85.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0
2.5°	1406.6	1365.7	1365.7	1321.4	1324.8	1287.4	1246.5	1205.6	1161.3	1127.3	1110.3
5°	1839.1	1808.4	1798.2	1747.1	1665.4	1573.4	1474.7	1372.5	1266.9	1185.2	1144.3
7.5°	2244.4	2220.5	2206.9	2149.0	2036.6	1937.8	1781.2	1593.9	1413.4	1260.1	1198.8
10°	2544.1	2527.0	2499.8	2472.5	2390.8	2305.7	2111.5	1845.9	1580.2	1352.1	1260.1
12.5°	2762.0	2738.2	2738.2	2734.8	2680.3	2602.0	2421.5	2135.4	1774.4	1454.2	1328.2
15°	2908.5	2905.1	2915.3	2935.7	2922.1	2871.0	2690.5	2401.0	1971.9	1570.0	1406.6
17.5°	3017.5	3003.8	3024.3	3078.8	3119.6	3099.2	2949.3	2656.5	2189.9	1696.0	1491.7
20°	3136.7	3109.4	3136.7	3204.8	3255.9	3286.5	3215.0	2901.7	2424.9	1832.3	1573.4
22.5°	3364.8	3361.4	3347.8	3368.2	3402.3	3456.8	3415.9	3150.3	2653.0	1968.5	1668.8
25°	3773.5	3736.1	3698.6	3654.3	3616.9	3633.9	3599.8	3381.9	2860.8	2118.4	1750.5
27.5°	4229.9	4189.0	4120.9	4011.9	3909.8	3848.5	3776.9	3582.8	3061.7	2254.6	1828.9
30°	4648.8	4635.2	4533.0	4413.8	4236.7	4124.3	3988.1	3814.4	3303.5	2404.4	1910.6
32.5°	5040.5	5013.2	4911.0	4785.0	4577.3	4451.3	4263.9	4066.4	3579.4	2588.3	1995.7
35°	5377.6	5350.4	5231.2	5071.1	4890.6	4781.6	4567.1	4291.2	3831.4	2748.4	2067.3
37.5°	5633.0	5602.4	5490.0	5333.3	5173.3	5122.2	4938.3	4577.3	4117.5	2949.3	2155.8
40°	5776.1	5738.6	5663.7	5554.7	5421.9	5398.1	5319.7	4931.5	4478.5	3194.6	2285.2
42.5°	5793.1	5759.1	5718.2	5708.0	5697.8	5718.2	5755.6	5333.3	4890.6	3521.5	2476.0
45°	5643.3	5622.8	5626.2	5742.0	5902.1	6089.4	6314.2	5925.9	5445.7	4144.7	2905.1
47.5°	5323.1	5312.9	5387.8	5582.0	5939.6	6365.3	7002.1	6940.8	6760.3	5149.4	3456.8
50°	4805.5	4788.4	4948.5	5255.0	5765.9	6457.2	7465.3	8136.2	8286.1	5929.3	3817.8
52.5°	4063.0	4083.4	4332.1	4751.0	5367.4	6358.5	7656.0	8626.7	9021.7	6504.9	4093.7
55°	3303.5	3272.9	3497.7	4015.3	4778.2	5997.5	7693.5	8909.3	9498.5	7036.2	4362.7
57.5°	2407.8	2482.8	2721.2	3191.2	4018.7	5343.6	7475.5	9103.5	10138.8	7567.5	4611.3
60°	1631.3	1631.3	1842.5	2312.5	3106.0	4550.0	6893.2	9031.9	10697.3	7983.0	4665.8
62.5°	1038.7	1028.5	1198.8	1532.6	2223.9	3535.1	6021.3	8582.4	10894.9	8081.7	4437.6
65°	657.3	670.9	732.2	936.6	1423.6	2510.0	4832.7	7686.7	10571.3	7853.6	4039.2
67.5°	527.9	531.3	561.9	647.1	875.3	1610.9	3582.8	6450.4	9798.2	7278.0	3572.6
70°	466.6	473.4	480.2	510.9	599.4	1018.3	2353.3	5193.7	8531.3	6276.7	3072.0
72.5°	425.7	432.5	439.3	446.1	493.8	664.1	1389.5	3937.0	6882.9	4822.5	2343.1
75°	391.7	398.5	398.5	401.9	429.1	493.8	762.9	2714.4	4791.8	3000.4	1461.0
77.5°	350.8	354.2	354.2	361.0	388.3	388.3	473.4	1679.0	2659.9	1358.9	739.0
80°	296.3	303.1	303.1	313.3	340.6	299.7	316.7	858.2	1103.4	558.5	330.4
82.5°	218.0	231.6	238.4	255.4	272.5	228.2	228.2	432.5	466.6	248.6	177.1
85°	119.2	122.6	177.1	190.7	200.9	136.2	153.3	214.6	231.6	109.0	88.5
87.5°	34.1	37.5	85.1	105.6	95.4	57.9	64.7	81.7	81.7	30.7	23.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0
2.5°	1096.6	1069.4	1045.6	1028.5	1011.5	1001.3	997.9	991.1	991.1	994.5
5°	1110.3	1062.6	1025.1	1004.7	991.1	984.3	980.8	980.8	984.3	984.3
7.5°	1144.3	1072.8	1038.7	1021.7	1008.1	1001.3	1001.3	997.9	1001.3	1001.3
10°	1192.0	1103.4	1066.0	1045.6	1035.3	1025.1	1021.7	1018.3	1018.3	1018.3
12.5°	1243.1	1137.5	1096.6	1072.8	1055.8	1042.1	1035.3	1028.5	1025.1	1025.1
15°	1290.8	1171.6	1117.1	1089.8	1066.0	1045.6	1031.9	1021.7	1018.3	1018.3
17.5°	1341.8	1195.4	1130.7	1093.2	1062.6	1035.3	1018.3	1004.7	997.9	997.9
20°	1396.3	1212.4	1130.7	1083.0	1042.1	1014.9	994.5	980.8	967.2	967.2
22.5°	1440.6	1219.2	1117.1	1059.2	1018.3	984.3	963.8	946.8	936.6	936.6
25°	1478.1	1212.4	1086.4	1021.7	974.0	943.4	922.9	909.3	899.1	899.1
27.5°	1501.9	1185.2	1049.0	980.8	936.6	905.9	892.3	878.7	871.9	871.9
30°	1515.5	1151.1	1001.3	936.6	892.3	875.3	868.5	854.8	844.6	841.2
32.5°	1522.4	1100.0	953.6	892.3	861.6	854.8	854.8	837.8	824.2	820.8
35°	1515.5	1045.6	905.9	854.8	844.6	848.0	841.2	820.8	803.7	796.9
37.5°	1505.3	980.8	854.8	827.6	837.8	844.6	824.2	796.9	769.7	762.9
40°	1498.5	922.9	814.0	800.3	831.0	834.4	796.9	745.9	725.4	718.6
42.5°	1532.6	865.1	776.5	779.9	814.0	817.4	749.3	725.4	711.8	708.4
45°	1648.4	814.0	745.9	766.3	793.5	779.9	725.4	722.0	711.8	708.4
47.5°	1736.9	776.5	732.2	756.1	776.5	728.8	722.0	718.6	708.4	705.0
50°	1767.6	752.7	728.8	749.3	752.7	705.0	715.2	715.2	705.0	701.6
52.5°	1771.0	739.0	735.6	745.9	715.2	694.8	708.4	708.4	698.2	694.8
55°	1784.6	732.2	739.0	745.9	674.3	681.1	694.8	698.2	688.0	684.5
57.5°	1757.3	722.0	745.9	749.3	657.3	667.5	681.1	681.1	681.1	681.1
60°	1651.8	701.6	742.4	742.4	643.7	650.5	664.1	670.9	674.3	674.3
62.5°	1457.6	660.7	722.0	722.0	630.1	636.9	653.9	653.9	664.1	664.1
65°	1212.4	602.8	681.1	677.7	616.4	623.2	643.7	636.9	653.9	657.3
67.5°	1011.5	531.3	619.8	626.7	602.8	619.8	633.5	609.6	643.7	643.7
70°	807.2	446.1	538.1	568.8	579.0	623.2	613.0	575.6	619.8	609.6
72.5°	626.7	378.0	442.7	497.2	551.7	619.8	568.8	527.9	555.1	538.1
75°	456.4	313.3	364.4	412.1	514.3	609.6	524.5	463.2	463.2	456.4
77.5°	320.1	255.4	292.9	326.9	476.8	582.4	470.0	398.5	381.4	378.0
80°	218.0	200.9	231.6	252.0	422.3	527.9	405.3	330.4	299.7	292.9
82.5°	143.0	143.0	156.7	170.3	326.9	439.3	316.7	245.2	316.7	303.1
85°	81.7	85.1	85.1	98.8	180.5	309.9	224.8	245.2	146.4	136.2
87.5°	27.2	27.2	27.2	27.2	37.5	126.0	95.4	88.5	34.1	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)