

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: P572816

Luminaire Tested: **ARCH-S-PA2-120-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572816
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-PA2-120-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14287 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

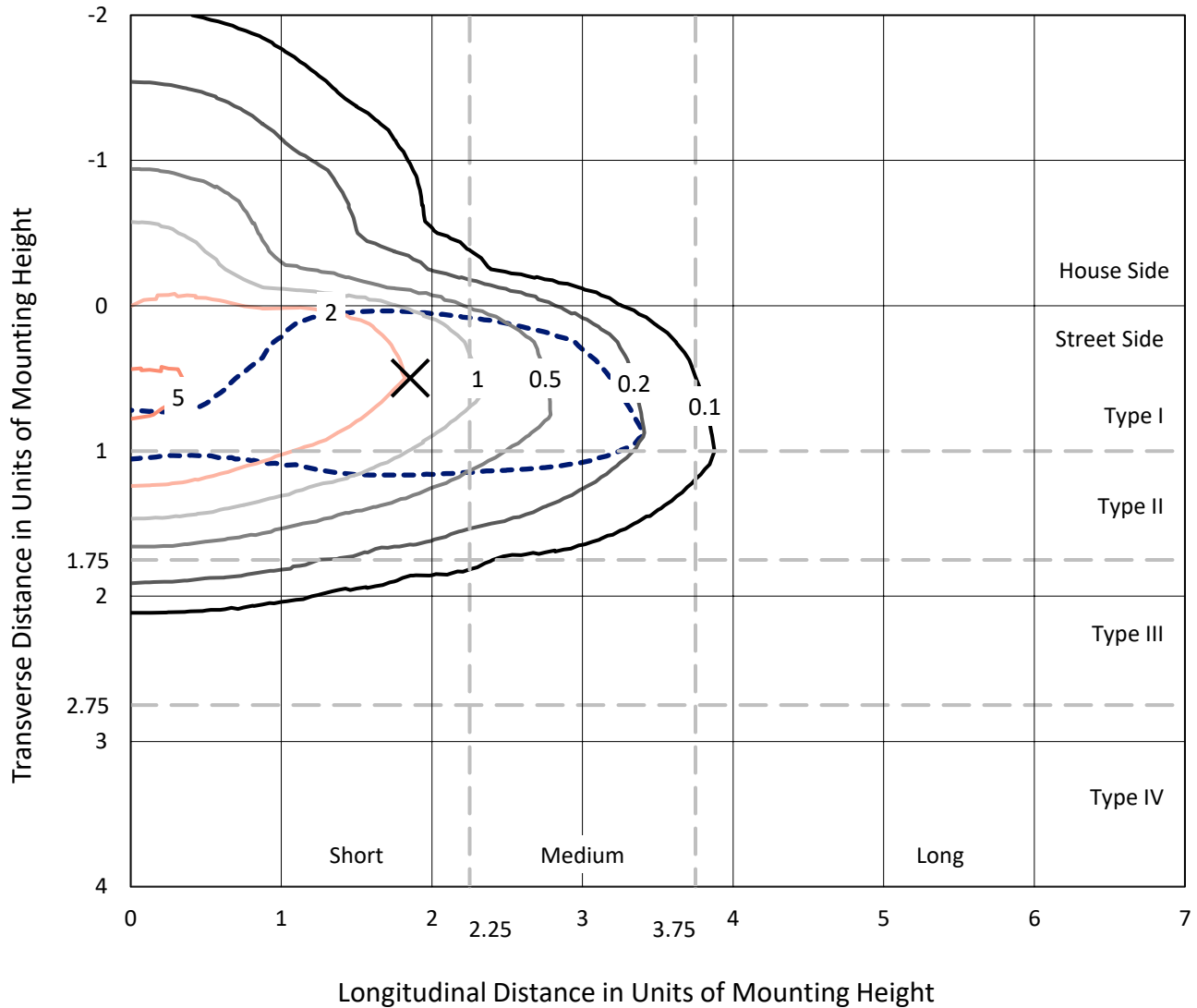
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

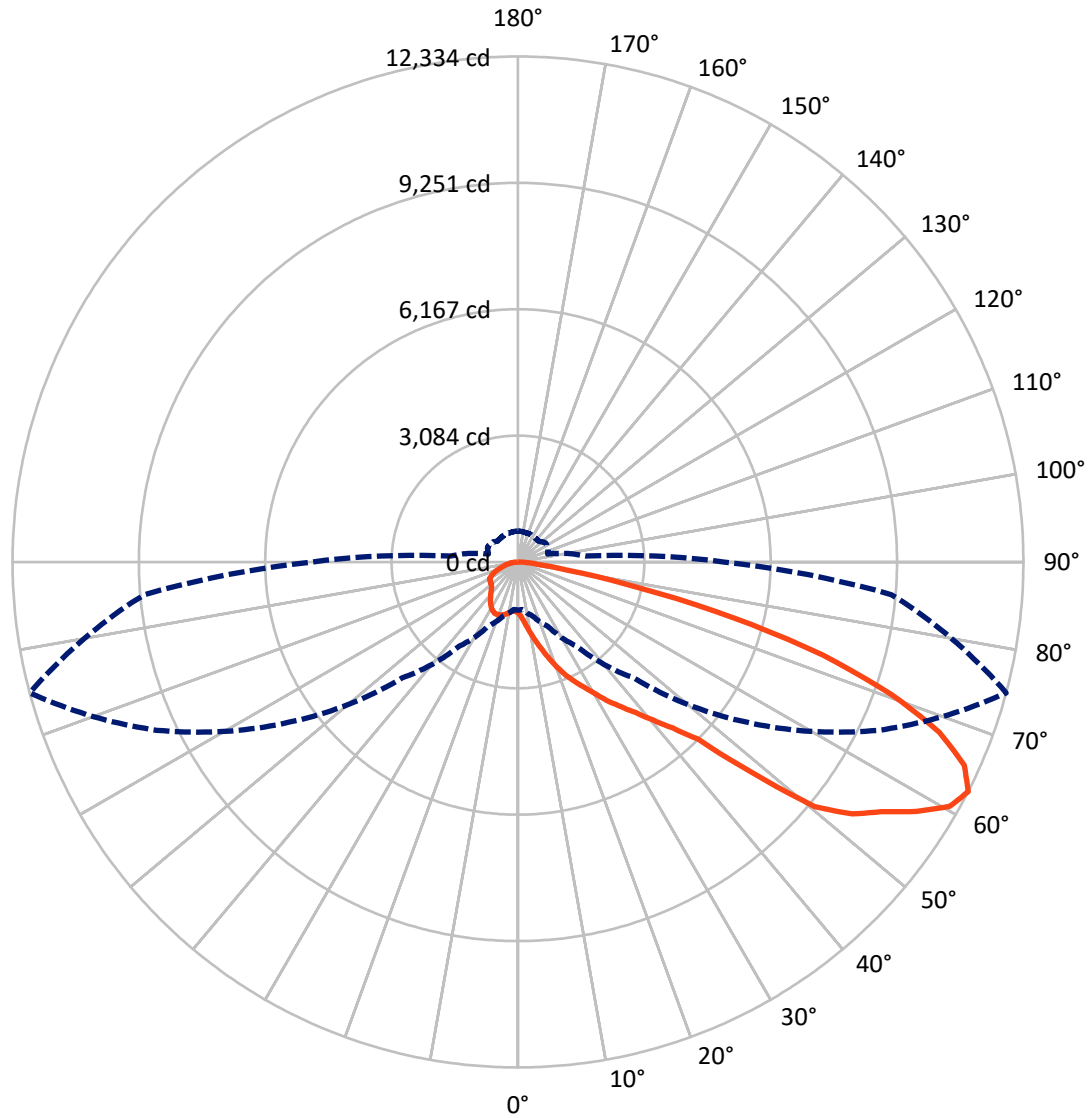
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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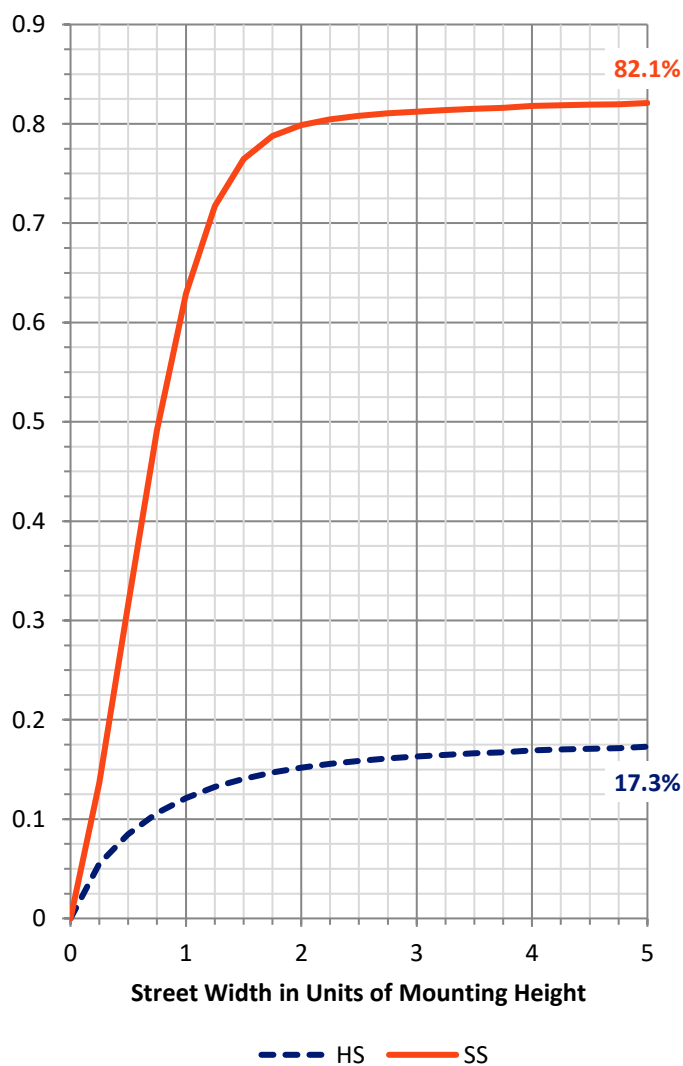
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.8	0.0	2519.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	11767.2	0.0	11767.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	14287.0	0.0	14287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	1.0
10°-20°	591.2	4.1
20°-30°	1169.6	8.2
30°-40°	1949.6	13.6
40°-50°	2876.8	20.1
50°-60°	3458.2	24.2
60°-70°	2687.7	18.8
70°-80°	1189.0	8.3
80°-90°	215.3	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°	14287.0	100.0
0°-180°	14287.0	100.0

Coefficient of Utilization



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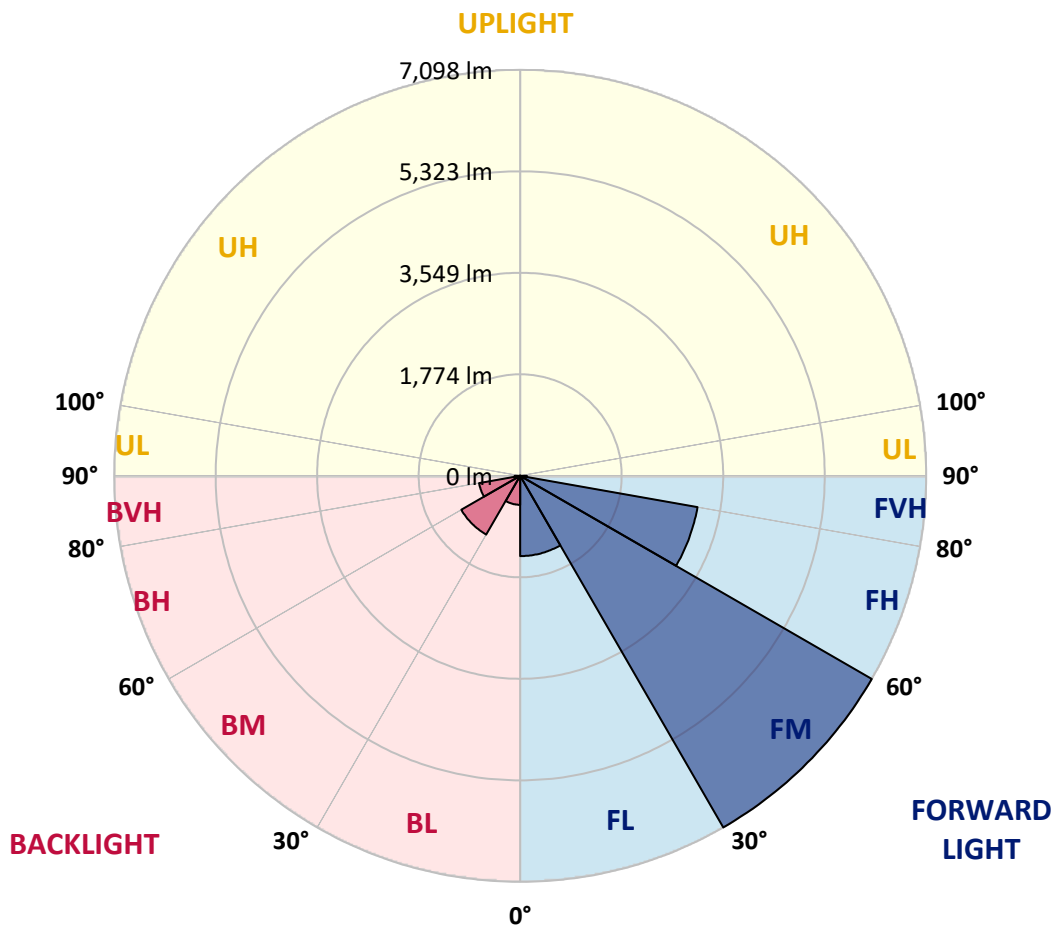
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.4	9.8			
FM (30°-60°)	7097.8	49.7			
FH (60°-80°)	3147.7	22.0			G2/5000
FVH (80°-90°)	118.3	0.8			G2/225
BL (0°-30°)	507.0	3.5	B2/1000		
BM (30°-60°)	1186.8	8.3	B2/2500		
BH (60°-80°)	729.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	96.9	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°	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1592.4	1546.1	1546.1	1496.0	1499.8	1457.4	1411.1	1364.9	1314.8	1276.2	1256.9
5°	2082.0	2047.3	2035.7	1977.9	1885.4	1781.3	1669.5	1553.8	1434.3	1341.7	1295.5
7.5°	2540.8	2513.8	2498.4	2432.9	2305.6	2193.8	2016.5	1804.4	1600.1	1426.6	1357.2
10°	2880.1	2860.8	2830.0	2799.1	2706.6	2610.2	2390.5	2089.7	1789.0	1530.7	1426.6
12.5°	3126.9	3099.9	3099.9	3096.0	3034.3	2945.7	2741.3	2417.4	2008.8	1646.3	1503.7
15°	3292.7	3288.8	3300.4	3323.5	3308.1	3250.3	3045.9	2718.2	2232.4	1777.4	1592.4
17.5°	3416.0	3400.6	3423.8	3485.4	3531.7	3508.6	3338.9	3007.3	2479.1	1920.1	1688.7
20°	3551.0	3520.1	3551.0	3628.1	3685.9	3720.6	3639.7	3285.0	2745.2	2074.3	1781.3
22.5°	3809.3	3805.5	3790.0	3813.2	3851.7	3913.4	3867.1	3566.4	3003.5	2228.5	1889.2
25°	4272.0	4229.6	4187.2	4137.0	4094.6	4113.9	4075.3	3828.6	3238.7	2398.2	1981.8
27.5°	4788.6	4742.4	4665.2	4541.9	4426.2	4356.8	4275.8	4056.1	3466.2	2552.4	2070.4
30°	5262.9	5247.4	5131.8	4996.8	4796.3	4669.1	4514.9	4318.2	3739.9	2722.0	2163.0
32.5°	5706.3	5675.4	5559.7	5417.1	5181.9	5039.2	4827.2	4603.6	4052.2	2930.2	2259.4
35°	6088.0	6057.1	5922.2	5741.0	5536.6	5413.2	5170.3	4858.0	4337.5	3111.5	2340.3
37.5°	6377.1	6342.4	6215.2	6037.8	5856.6	5798.8	5590.6	5181.9	4661.4	3338.9	2440.6
40°	6539.1	6496.6	6411.8	6288.4	6138.1	6111.1	6022.4	5582.9	5070.1	3616.5	2587.1
42.5°	6558.3	6519.8	6473.5	6461.9	6450.4	6473.5	6515.9	6037.8	5536.6	3986.7	2803.0
45°	6388.7	6365.6	6369.4	6500.5	6681.7	6893.8	7148.2	6708.7	6165.1	4692.2	3288.8
47.5°	6026.3	6014.7	6099.5	6319.3	6724.1	7206.1	7927.1	7857.7	7653.3	5829.6	3913.4
50°	5440.2	5420.9	5602.2	5949.2	6527.5	7310.2	8451.4	9211.0	9380.6	6712.6	4322.1
52.5°	4599.7	4622.8	4904.3	5378.5	6076.4	7198.4	8667.3	9766.2	10213.4	7364.2	4634.4
55°	3739.9	3705.2	3959.7	4545.7	5409.4	6789.7	8709.7	10086.2	10753.2	7965.6	4939.0
57.5°	2725.9	2810.7	3080.6	3612.7	4549.6	6049.4	8463.0	10306.0	11478.1	8567.1	5220.5
60°	1846.8	1846.8	2085.9	2617.9	3516.3	5151.1	7803.7	10225.0	12110.4	9037.5	5282.1
62.5°	1176.0	1164.4	1357.2	1735.0	2517.7	4002.1	6816.7	9716.1	12334.0	9149.3	5023.8
65°	744.1	759.5	828.9	1060.3	1611.6	2841.6	5471.1	8702.0	11967.7	8891.0	4572.7
67.5°	597.6	601.5	636.2	732.6	990.9	1823.7	4056.1	7302.5	11092.5	8239.4	4044.5
70°	528.2	535.9	543.6	578.3	678.6	1152.8	2664.2	5879.8	9658.2	7105.8	3477.7
72.5°	481.9	489.7	497.4	505.1	559.1	751.8	1573.1	4457.0	7792.1	5459.5	2652.6
75°	443.4	451.1	451.1	455.0	485.8	559.1	863.6	3072.9	5424.8	3396.8	1654.0
77.5°	397.1	401.0	401.0	408.7	439.5	439.5	535.9	1900.8	3011.2	1538.4	836.7
80°	335.4	343.1	343.1	354.7	385.6	339.3	358.6	971.6	1249.2	632.3	374.0
82.5°	246.8	262.2	269.9	289.2	308.4	258.3	258.3	489.7	528.2	281.5	200.5
85°	134.9	138.8	200.5	215.9	227.5	154.2	173.5	242.9	262.2	123.4	100.2
87.5°	38.6	42.4	96.4	119.5	108.0	65.5	73.3	92.5	92.5	34.7	27.0
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°	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1241.5	1210.7	1183.7	1164.4	1145.1	1133.5	1129.7	1122.0	1122.0	1125.8
5°	1256.9	1202.9	1160.5	1137.4	1122.0	1114.3	1110.4	1110.4	1114.3	1114.3
7.5°	1295.5	1214.5	1176.0	1156.7	1141.3	1133.5	1133.5	1129.7	1133.5	1133.5
10°	1349.5	1249.2	1206.8	1183.7	1172.1	1160.5	1156.7	1152.8	1152.8	1152.8
12.5°	1407.3	1287.8	1241.5	1214.5	1195.2	1179.8	1172.1	1164.4	1160.5	1160.5
15°	1461.3	1326.3	1264.6	1233.8	1206.8	1183.7	1168.2	1156.7	1152.8	1152.8
17.5°	1519.1	1353.3	1280.1	1237.6	1202.9	1172.1	1152.8	1137.4	1129.7	1129.7
20°	1580.8	1372.6	1280.1	1226.1	1179.8	1149.0	1125.8	1110.4	1095.0	1095.0
22.5°	1630.9	1380.3	1264.6	1199.1	1152.8	1114.3	1091.1	1071.9	1060.3	1060.3
25°	1673.3	1372.6	1229.9	1156.7	1102.7	1068.0	1044.9	1029.4	1017.9	1017.9
27.5°	1700.3	1341.7	1187.5	1110.4	1060.3	1025.6	1010.2	994.7	987.0	987.0
30°	1715.7	1303.2	1133.5	1060.3	1010.2	990.9	983.2	967.7	956.2	952.3
32.5°	1723.4	1245.4	1079.6	1010.2	975.5	967.7	967.7	948.5	933.0	929.2
35°	1715.7	1183.7	1025.6	967.7	956.2	960.0	952.3	929.2	909.9	902.2
37.5°	1704.2	1110.4	967.7	936.9	948.5	956.2	933.0	902.2	871.4	863.6
40°	1696.5	1044.9	921.5	906.1	940.8	944.6	902.2	844.4	821.2	813.5
42.5°	1735.0	979.3	879.1	882.9	921.5	925.3	848.2	821.2	805.8	802.0
45°	1866.1	921.5	844.4	867.5	898.3	882.9	821.2	817.4	805.8	802.0
47.5°	1966.3	879.1	828.9	855.9	879.1	825.1	817.4	813.5	802.0	798.1
50°	2001.0	852.1	825.1	848.2	852.1	798.1	809.7	809.7	798.1	794.2
52.5°	2004.9	836.7	832.8	844.4	809.7	786.5	802.0	802.0	790.4	786.5
55°	2020.3	828.9	836.7	844.4	763.4	771.1	786.5	790.4	778.8	775.0
57.5°	1989.5	817.4	844.4	848.2	744.1	755.7	771.1	771.1	771.1	771.1
60°	1870.0	794.2	840.5	840.5	728.7	736.4	751.8	759.5	763.4	763.4
62.5°	1650.2	748.0	817.4	817.4	713.3	721.0	740.3	740.3	751.8	751.8
65°	1372.6	682.4	771.1	767.3	697.9	705.6	728.7	721.0	740.3	744.1
67.5°	1145.1	601.5	701.7	709.4	682.4	701.7	717.1	690.1	728.7	728.7
70°	913.8	505.1	609.2	643.9	655.4	705.6	694.0	651.6	701.7	690.1
72.5°	709.4	428.0	501.2	562.9	624.6	701.7	643.9	597.6	628.5	609.2
75°	516.6	354.7	412.5	466.5	582.2	690.1	593.8	524.4	524.4	516.6
77.5°	362.4	289.2	331.6	370.1	539.8	659.3	532.1	451.1	431.8	428.0
80°	246.8	227.5	262.2	285.3	478.1	597.6	458.8	374.0	339.3	331.6
82.5°	161.9	161.9	177.4	192.8	370.1	497.4	358.6	277.6	358.6	343.1
85°	92.5	96.4	96.4	111.8	204.3	350.9	254.5	277.6	165.8	154.2
87.5°	30.8	30.8	30.8	30.8	42.4	142.7	108.0	100.2	38.6	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)