

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: P400432

Luminaire Tested: **ARCH-L-PA3-280-730-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-280-730-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32484 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

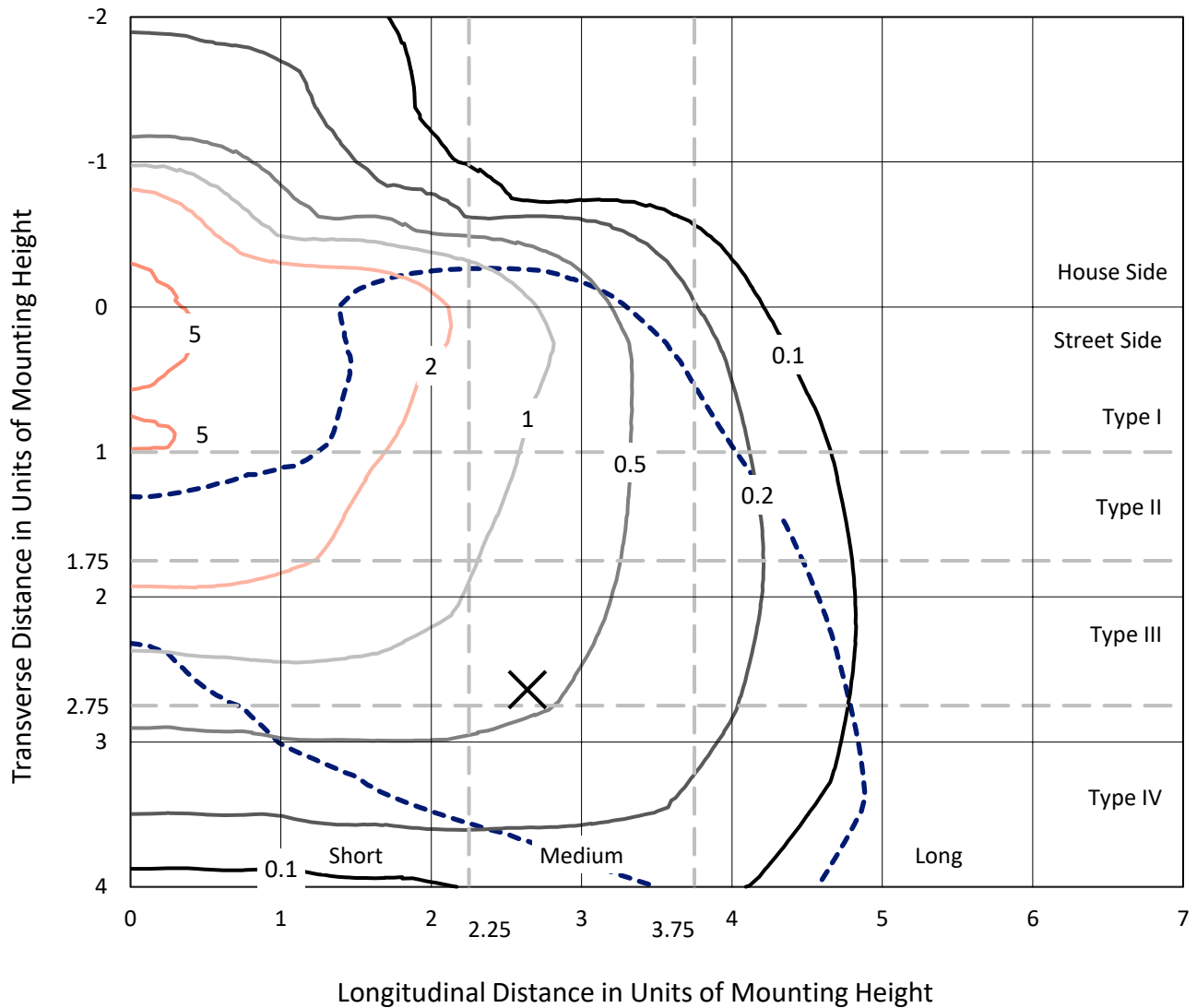
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

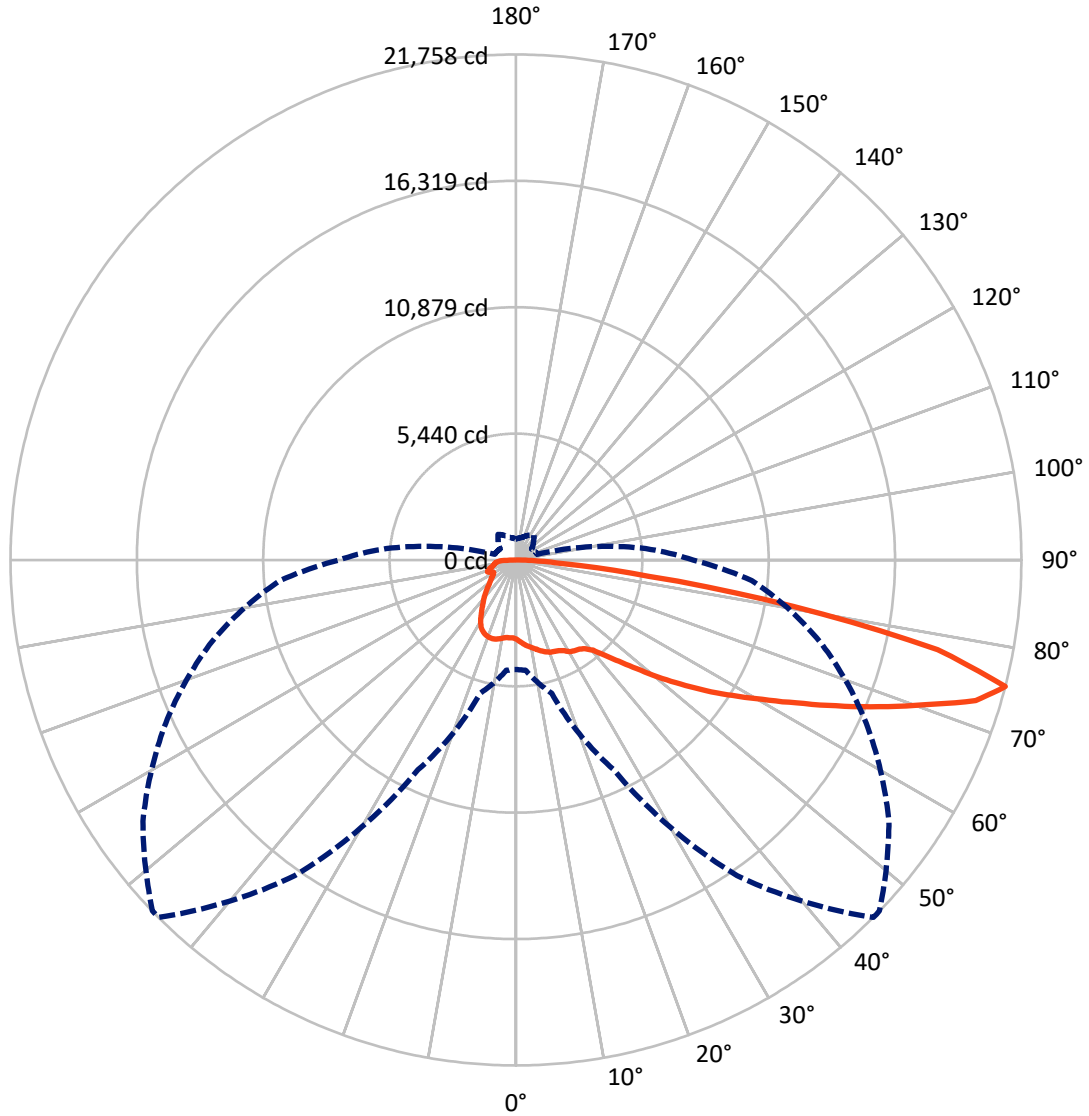
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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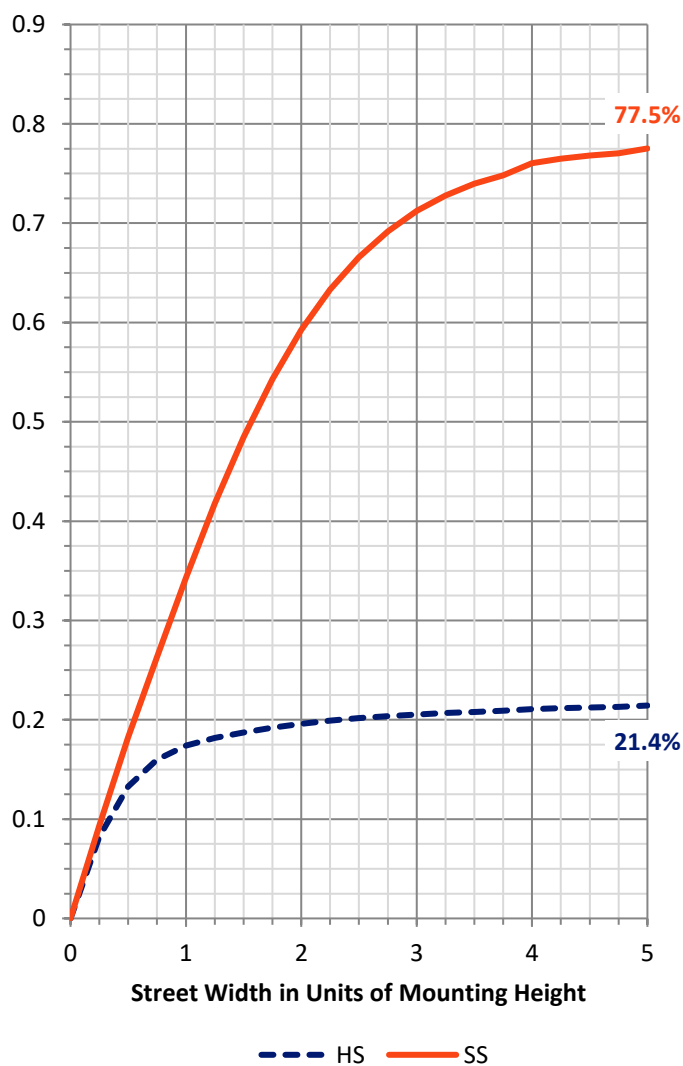
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7178.8	0.0	7178.8
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	25305.2	0.0	25305.2
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	32484.0	0.0	32484.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.5	1.0
10°-20°	1073.7	3.3
20°-30°	1830.5	5.6
30°-40°	2564.8	7.9
40°-50°	3768.0	11.6
50°-60°	5996.8	18.5
60°-70°	8530.5	26.3
70°-80°	7142.6	22.0
80°-90°	1239.6	3.8
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°	32484.0	100.0
0°-180°	32484.0	100.0

**Coefficient of Utilization**



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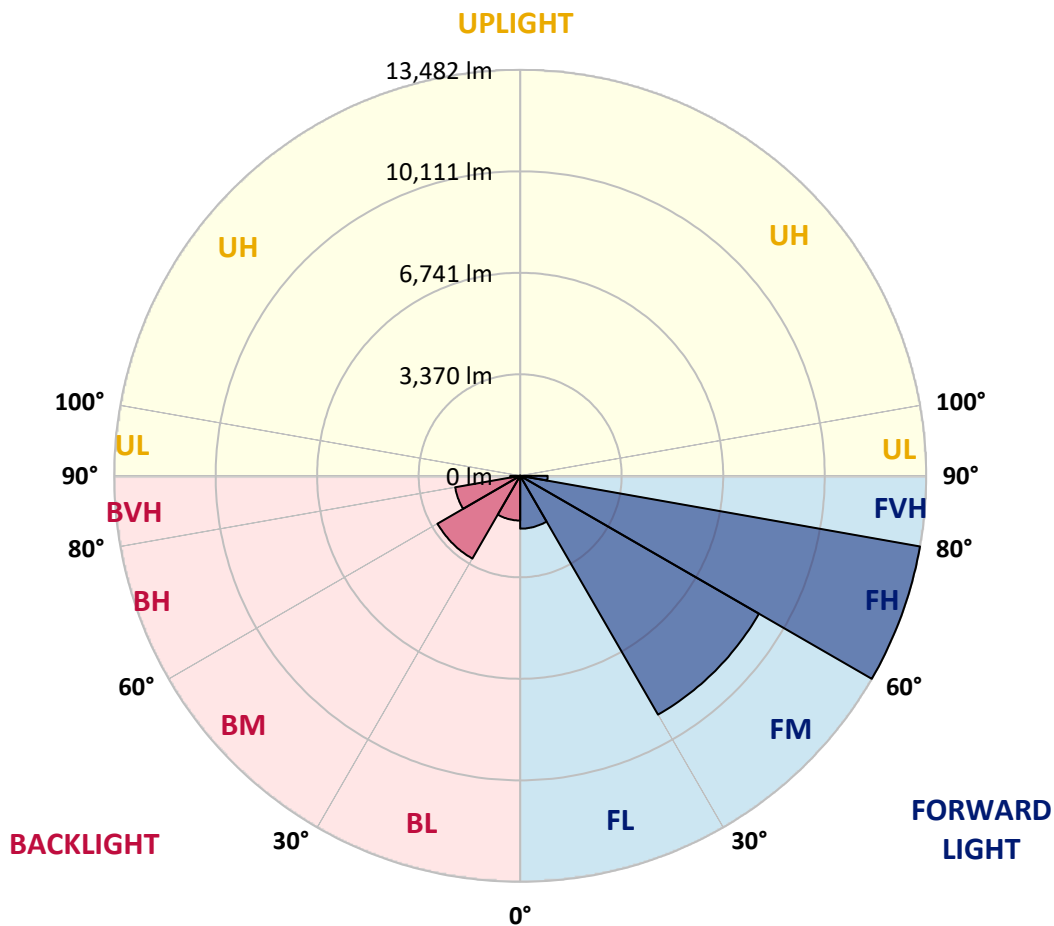
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.0	5.4			
FM (30°-60°)	9156.2	28.2			
FH (60°-80°)	13481.7	41.5			G5
FVH (80°-90°)	911.3	2.8			G5
BL (0°-30°)	1485.7	4.6	B3/2500		
BM (30°-60°)	3173.4	9.8	B3/5000		
BH (60°-80°)	2191.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	328.3	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3606.8	3589.5	3580.8	3580.8	3546.1	3524.4	3520.0	3489.7	3463.6	3437.6	3415.9
5°	3815.2	3802.2	3776.1	3754.4	3706.7	3645.9	3637.2	3572.1	3507.0	3446.3	3394.2
7.5°	4006.2	3980.1	3949.7	3906.3	3828.2	3745.7	3732.7	3641.6	3550.4	3459.3	3389.8
10°	4166.8	4140.7	4097.3	4036.5	3936.7	3836.9	3823.9	3728.4	3632.9	3524.4	3424.6
12.5°	4318.7	4297.0	4231.9	4149.4	4032.2	3941.1	3928.0	3845.6	3745.7	3624.2	3494.0
15°	4448.9	4427.2	4357.7	4262.2	4127.7	4058.2	4040.9	3962.8	3862.9	3732.7	3598.2
17.5°	4514.0	4514.0	4440.2	4336.0	4210.2	4158.1	4145.1	4049.6	3958.4	3832.5	3698.0
20°	4535.7	4544.4	4492.3	4366.4	4257.9	4236.2	4223.2	4145.1	4040.9	3919.4	3793.5
22.5°	4548.7	4566.1	4522.7	4379.4	4288.3	4275.3	4266.6	4214.5	4132.0	4014.8	3889.0
25°	4592.1	4592.1	4561.7	4401.1	4327.3	4323.0	4323.0	4292.6	4236.2	4136.4	4010.5
27.5°	4657.2	4652.9	4613.8	4448.9	4414.2	4427.2	4422.8	4418.5	4379.4	4279.6	4145.1
30°	4765.7	4765.7	4722.3	4544.4	4522.7	4579.1	4583.4	4592.1	4531.3	4375.1	4266.6
32.5°	4930.7	4913.3	4869.9	4639.9	4605.1	4657.2	4665.9	4661.6	4609.5	4461.9	4409.8
35°	5438.5	5399.4	5243.2	4852.5	4678.9	4709.3	4713.6	4735.3	4744.0	4626.8	4600.8
37.5°	6328.3	6276.2	6037.5	5356.0	4913.3	4839.5	4835.2	4891.6	4939.3	4835.2	4835.2
40°	7296.2	7252.8	7113.9	6224.1	5347.3	5104.3	5086.9	5139.0	5199.8	5126.0	5147.7
42.5°	8129.5	8164.2	8177.3	7144.2	5998.4	5599.1	5551.3	5477.5	5573.0	5507.9	5594.7
45°	8754.5	8737.2	8975.9	8086.1	6840.4	6219.8	6154.6	5955.0	6076.5	6072.2	6263.2
47.5°	9418.6	9388.2	9488.0	8971.5	7799.6	6979.3	6879.5	6584.3	6766.6	6892.5	7209.4
50°	10048.0	10056.6	10091.4	9670.3	8841.3	7903.8	7777.9	7383.0	7643.4	7908.2	8355.2
52.5°	10868.3	10807.5	10764.1	10486.3	10008.9	8867.4	8784.9	8333.5	8698.1	9010.6	9605.2
55°	11584.4	11545.4	11519.3	11506.3	10985.5	9930.8	9844.0	9375.2	9900.4	10121.7	10998.5
57.5°	12348.4	12326.7	12465.5	12686.9	12478.6	11011.5	10920.4	10469.0	11054.9	11211.2	12508.9
60°	12908.3	12921.3	13303.2	13867.5	13724.2	12183.4	12074.9	11675.6	12179.1	12318.0	14019.4
62.5°	12912.6	13042.8	13928.2	14939.6	15104.5	13533.3	13407.4	12973.4	13333.6	13333.6	15373.6
65°	11679.9	11827.5	13815.4	15204.3	16502.1	15139.2	15017.7	14336.2	14470.8	14288.5	16645.3
67.5°	10451.6	10625.2	12495.9	15226.0	17483.0	16858.0	16714.8	15699.1	15469.1	15009.0	17535.1
70°	9635.6	9757.2	11319.7	14943.9	18073.3	18654.9	18546.4	16992.5	16254.7	15612.3	17348.5
72.5°	8112.2	8068.7	9561.8	13602.7	18403.2	20694.9	20603.7	18398.8	16936.1	15325.8	14796.3
75°	4709.3	4761.4	5933.3	9965.5	16588.9	21758.3	21749.6	19601.1	16636.6	13537.6	10195.5
77.5°	1358.5	1397.6	1948.8	4379.4	10490.7	18559.4	19154.1	17925.7	14062.8	9648.6	5286.6
80°	594.6	625.0	846.4	1458.4	4518.3	12122.7	12643.5	12122.7	8481.1	4427.2	2074.7
82.5°	351.6	373.3	551.2	902.8	2165.8	5768.4	6471.5	5651.2	3658.9	1879.4	859.4
85°	199.7	208.3	316.8	572.9	1362.9	2018.3	2265.7	2122.4	1783.9	1067.7	451.4
87.5°	91.1	95.5	156.3	269.1	763.9	681.4	707.5	937.5	1033.0	651.1	225.7
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°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3407.2	3394.2	3368.1	3359.4	3346.4	3350.8	3355.1	3355.1	3359.4	3346.4	3346.4
5°	3372.5	3350.8	3324.7	3324.7	3324.7	3359.4	3389.8	3407.2	3415.9	3415.9	3407.2
7.5°	3359.4	3333.4	3303.0	3311.7	3320.4	3363.8	3420.2	3476.6	3494.0	3494.0	3485.3
10°	3385.5	3359.4	3337.7	3350.8	3372.5	3407.2	3450.6	3502.7	3546.1	3550.4	3546.1
12.5°	3446.3	3415.9	3394.2	3420.2	3446.3	3468.0	3489.7	3511.4	3567.8	3576.5	3576.5
15°	3546.1	3515.7	3489.7	3511.4	3520.0	3520.0	3520.0	3520.0	3576.5	3585.1	3585.1
17.5°	3645.9	3619.9	3593.8	3598.2	3572.1	3537.4	3524.4	3520.0	3550.4	3576.5	3580.8
20°	3741.4	3719.7	3693.7	3650.3	3585.1	3520.0	3498.3	3498.3	3515.7	3554.8	3554.8
22.5°	3845.6	3819.5	3776.1	3676.3	3567.8	3476.6	3454.9	3468.0	3489.7	3541.7	3537.4
25°	3962.8	3928.0	3854.2	3667.6	3511.4	3402.9	3407.2	3446.3	3485.3	3541.7	3541.7
27.5°	4093.0	4045.2	3897.7	3598.2	3385.5	3281.3	3320.4	3411.5	3468.0	3528.7	3537.4
30°	4236.2	4192.8	3932.4	3476.6	3181.5	3086.0	3181.5	3329.1	3415.9	3472.3	3485.3
32.5°	4409.8	4375.1	3962.8	3320.4	2916.7	2834.3	2973.2	3155.4	3294.3	3359.4	3372.5
35°	4626.8	4592.1	4001.8	3142.4	2669.3	2582.5	2708.4	2895.0	3077.3	3159.8	3185.8
37.5°	4909.0	4856.9	4036.5	2951.5	2461.0	2361.2	2421.9	2591.2	2756.1	2869.0	2899.4
40°	5269.2	5186.7	4066.9	2734.4	2278.7	2165.8	2187.5	2270.0	2365.5	2465.3	2504.4
42.5°	5777.0	5612.1	4071.3	2504.4	2092.1	1987.9	1979.2	2005.3	2005.3	2005.3	2018.3
45°	6484.5	6172.0	4079.9	2287.4	1901.1	1792.6	1766.5	1757.8	1692.7	1566.9	1558.2
47.5°	7378.6	6905.5	4119.0	2105.1	1701.4	1605.9	1571.2	1536.5	1415.0	1284.7	1258.7
50°	8524.5	7756.2	4197.1	1931.5	1532.2	1467.0	1423.6	1341.2	1206.6	1106.8	1080.8
52.5°	9844.0	8767.5	4270.9	1749.2	1406.3	1362.9	1310.8	1211.0	1067.7	1007.0	998.3
55°	11358.7	9896.0	4418.5	1588.6	1297.8	1267.4	1219.6	1124.2	1015.6	972.2	967.9
57.5°	12908.3	11159.1	4626.8	1445.3	1193.6	1176.2	1176.2	1093.8	1024.3	1007.0	1007.0
60°	14401.3	12244.2	4466.2	1310.8	1098.1	1106.8	1189.3	1167.6	1115.5	1137.2	1150.2
62.5°	15560.2	12882.2	3624.2	1202.3	1028.7	1106.8	1319.5	1319.5	1258.7	1250.0	1250.0
65°	16055.0	12873.5	2547.8	1119.8	1002.6	1215.3	1471.4	1401.9	1241.3	1180.6	1167.6
67.5°	15929.2	12309.3	1757.8	1063.4	993.9	1328.2	1540.8	1345.5	1163.2	1111.1	1072.1
70°	14822.4	11115.7	1354.2	1011.3	980.9	1280.4	1519.1	1280.4	1102.5	1054.7	1020.0
72.5°	11957.7	8915.1	1124.2	959.2	928.8	1184.9	1445.3	1219.6	1054.7	1002.6	967.9
75°	7626.0	5607.8	950.5	889.8	829.0	1063.4	1345.5	1158.9	1002.6	933.2	907.1
77.5°	3667.6	2417.6	829.0	807.3	746.5	985.3	1245.7	1080.8	933.2	876.8	859.4
80°	1484.4	1106.8	720.5	724.8	685.8	937.5	1176.2	1007.0	863.7	803.0	772.6
82.5°	772.6	642.4	607.7	625.0	625.0	894.1	1124.2	946.2	803.0	776.9	677.1
85°	416.7	399.3	468.8	503.5	542.5	807.3	1046.0	881.1	733.5	629.4	607.7
87.5°	204.0	260.4	264.8	303.8	377.6	646.7	881.1	737.9	612.0	507.8	499.1
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)