

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: P400458

Luminaire Tested: **ARCH-L-PA3-280-760-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-280-760-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25821 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G5

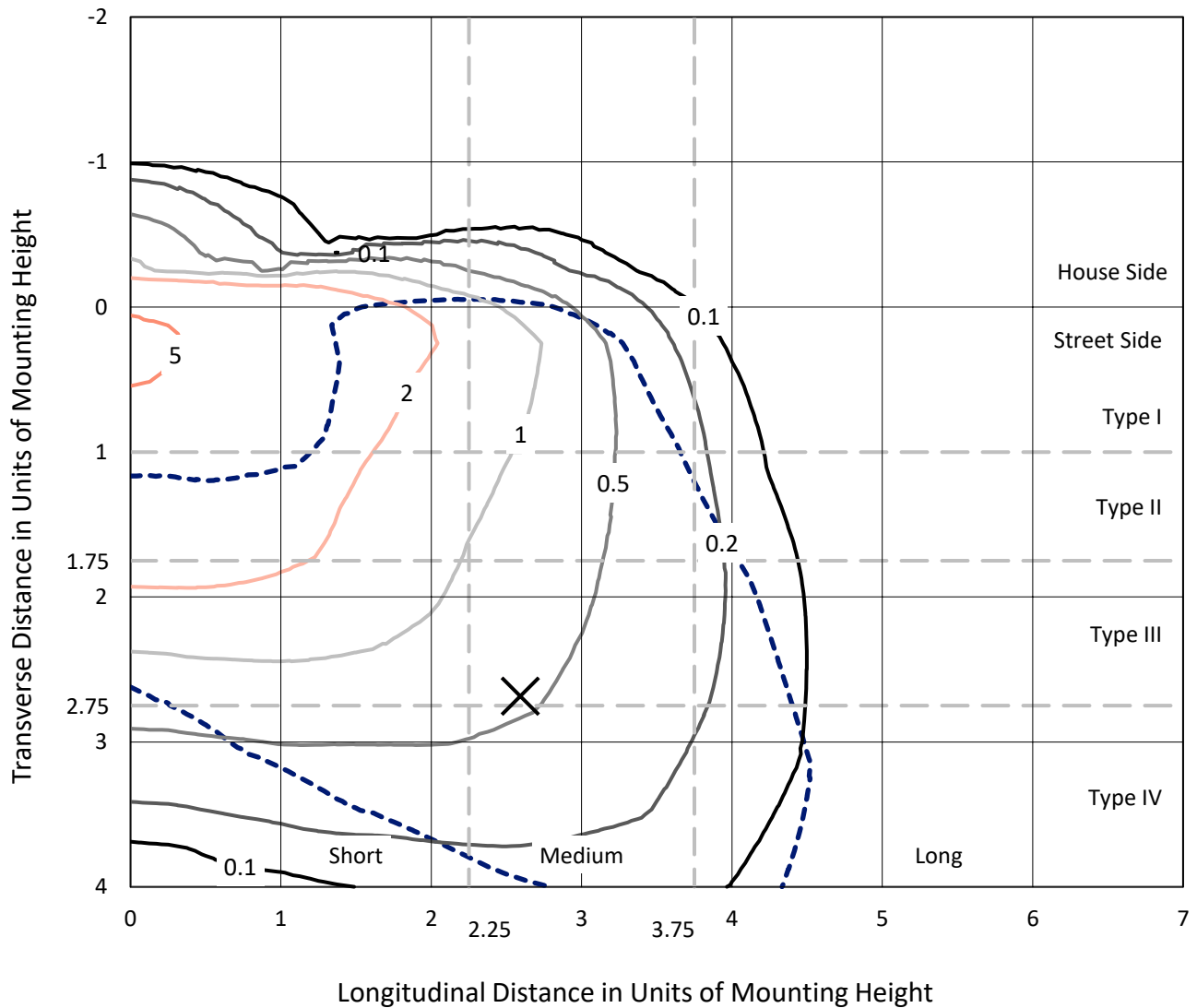
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

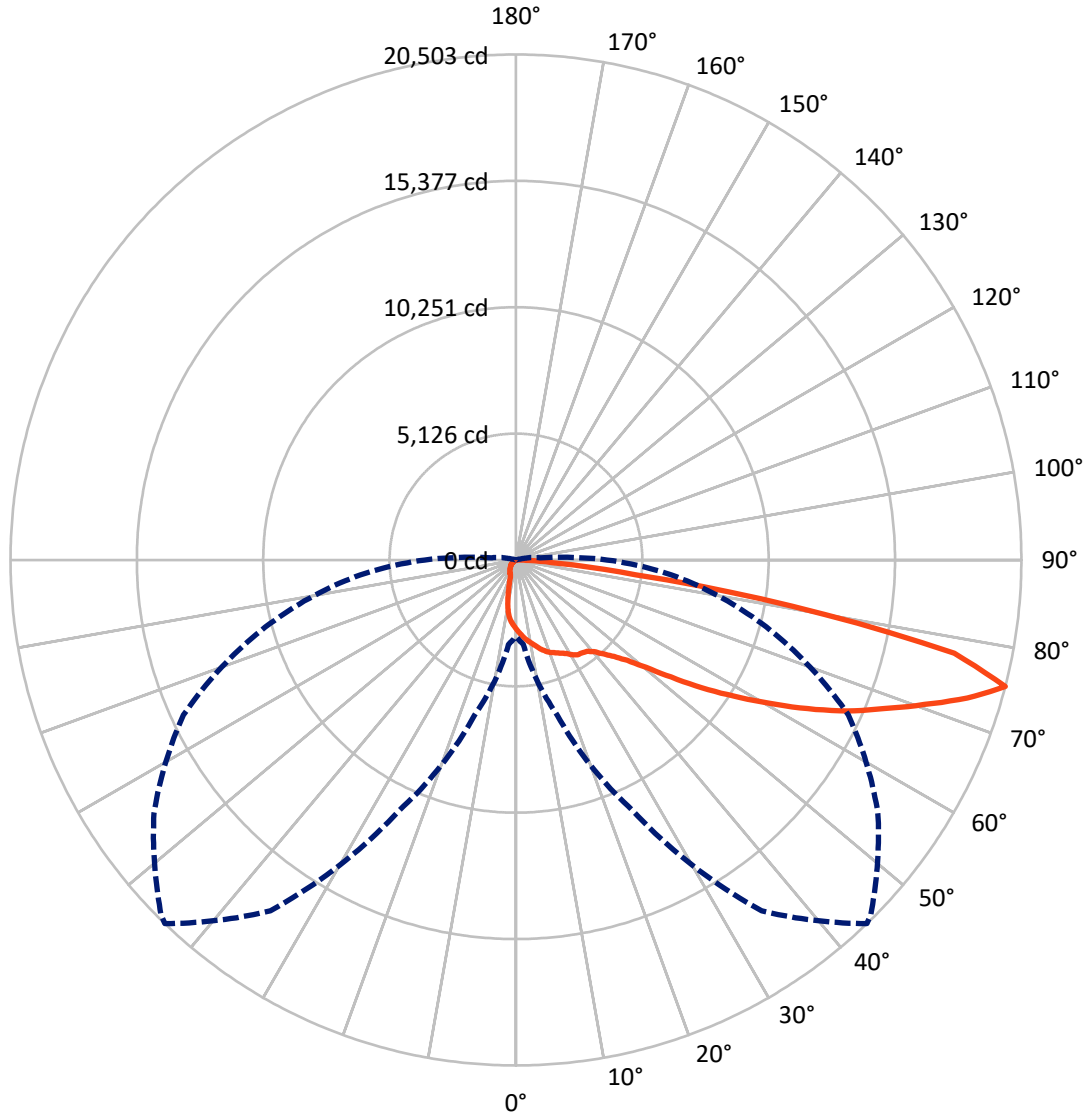
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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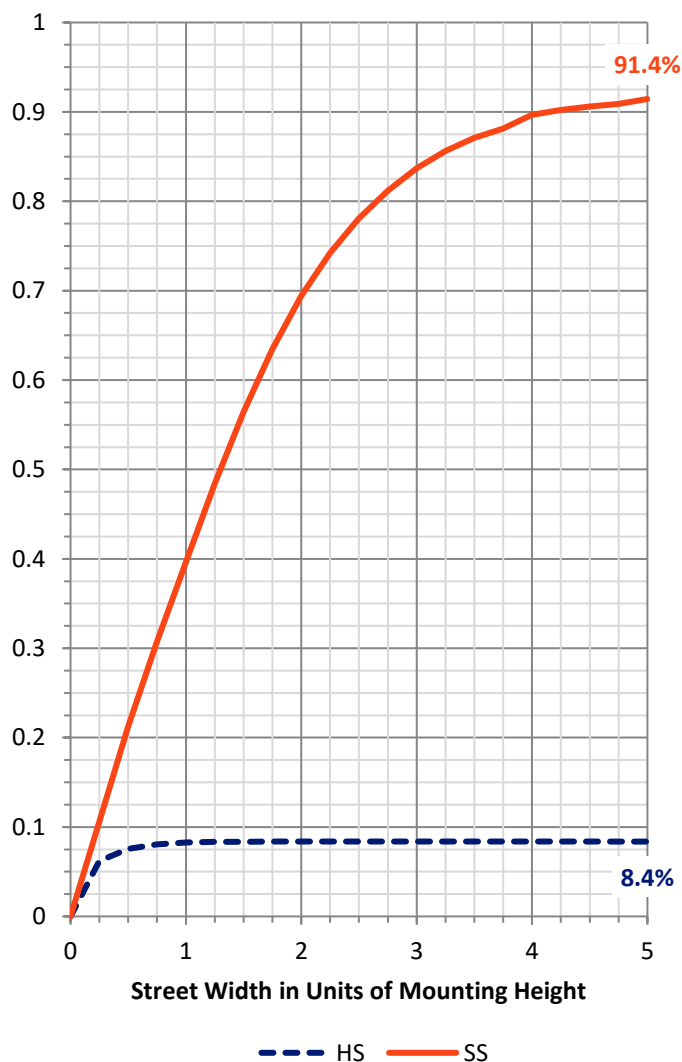
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2177.6	0.0	2177.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23643.4	0.0	23643.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25821.0	0.0	25821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.0	1.0
10°-20°	742.7	2.9
20°-30°	1225.7	4.7
30°-40°	1778.9	6.9
40°-50°	2891.8	11.2
50°-60°	5097.9	19.7
60°-70°	7326.7	28.4
70°-80°	5867.1	22.7
80°-90°	625.1	2.4
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°	25821.0	100.0
0°-180°	25821.0	100.0

**Coefficient of Utilization**



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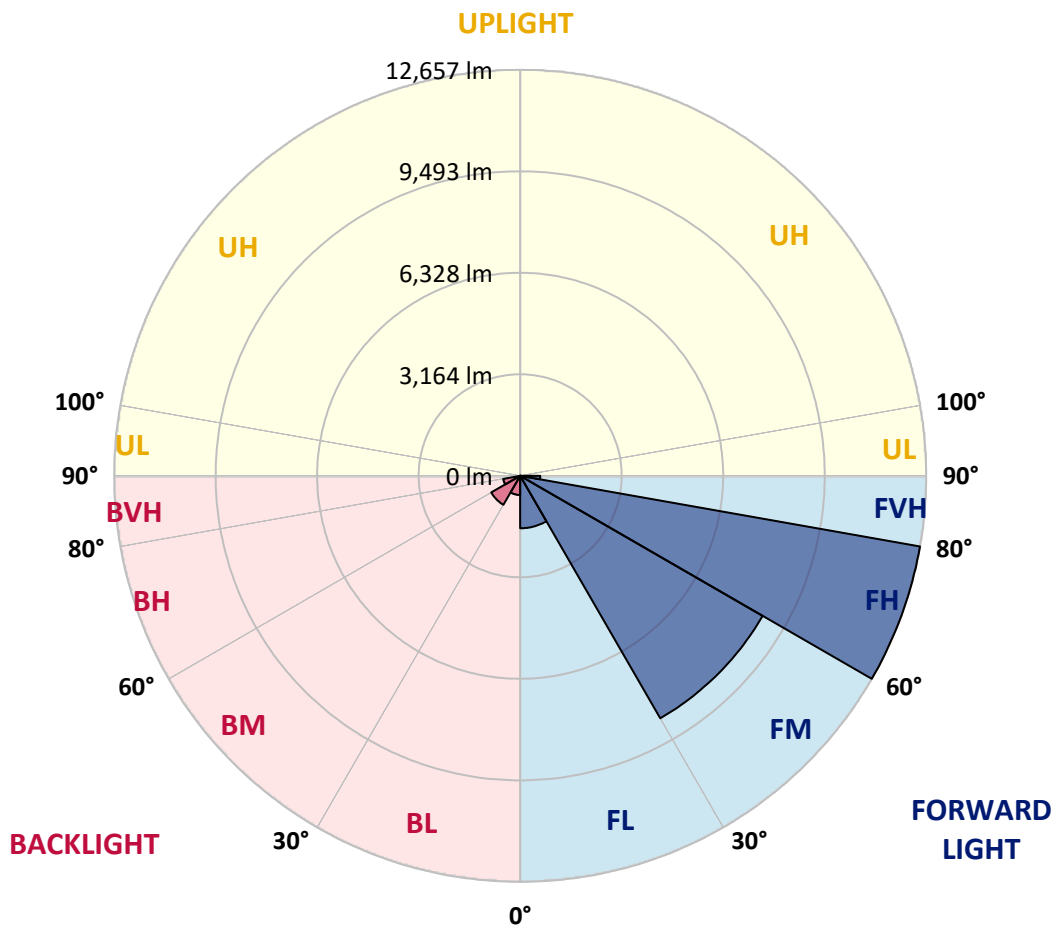
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.2	6.3			
FM (30°-60°)	8727.7	33.8			
FH (60°-80°)	12657.0	49.0			G5
FVH (80°-90°)	623.5	2.4			G4/750
BL (0°-30°)	598.3	2.3	B2/1000		
BM (30°-60°)	1040.9	4.0	B2/2500		
BH (60°-80°)	536.8	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	3063.0	3058.2	3043.9	3020.1	2996.3	2972.5	2967.7	2929.6	2886.7	2853.4	2824.8
5°	3334.5	3329.7	3305.9	3253.5	3201.1	3139.2	3134.4	3043.9	2963.0	2872.4	2796.2
7.5°	3615.6	3606.0	3563.2	3482.2	3391.7	3296.4	3286.9	3153.5	3034.4	2915.3	2805.8
10°	3834.7	3825.2	3763.2	3668.0	3544.1	3425.0	3410.7	3272.6	3153.5	3001.1	2853.4
12.5°	4049.1	4030.0	3949.0	3844.2	3691.8	3577.5	3563.2	3420.3	3277.3	3120.2	2939.1
15°	4249.1	4225.3	4149.1	4015.7	3853.7	3744.2	3734.7	3582.2	3434.5	3253.5	3053.5
17.5°	4387.3	4377.7	4287.2	4139.6	3982.4	3891.9	3882.3	3725.1	3577.5	3386.9	3172.6
20°	4458.7	4458.7	4373.0	4211.0	4068.1	4006.2	3991.9	3844.2	3701.3	3520.3	3296.4
22.5°	4473.0	4487.3	4420.6	4244.4	4139.6	4087.2	4077.6	3949.0	3810.9	3644.1	3434.5
25°	4501.6	4501.6	4468.2	4277.7	4201.5	4187.2	4182.4	4068.1	3944.3	3777.5	3572.7
27.5°	4534.9	4534.9	4511.1	4325.3	4296.8	4292.0	4287.2	4234.8	4134.8	3939.5	3734.7
30°	4620.7	4625.4	4606.4	4420.6	4401.6	4454.0	4463.5	4434.9	4311.0	4068.1	3901.4
32.5°	4835.0	4792.2	4739.8	4487.3	4520.6	4587.3	4592.1	4534.9	4401.6	4206.2	4101.5
35°	5373.3	5120.9	4882.7	4544.5	4558.8	4625.4	4635.0	4630.2	4549.2	4382.5	4330.1
37.5°	5873.5	5516.2	5178.0	4677.8	4630.2	4701.7	4720.7	4801.7	4739.8	4625.4	4639.7
40°	6164.1	6025.9	5787.8	5044.6	4773.1	4882.7	4901.7	5025.6	5001.8	4954.1	5044.6
42.5°	7059.6	7069.2	6811.9	5592.5	5035.1	5211.4	5235.2	5335.2	5368.6	5392.4	5611.5
45°	8098.1	8131.4	8069.5	6578.5	5530.5	5587.7	5621.0	5754.4	5878.3	6030.7	6430.8
47.5°	9346.2	9317.6	9088.9	7783.7	6392.7	6073.6	6097.4	6354.6	6569.0	6902.4	7474.1
50°	10451.3	10522.8	10089.3	8907.9	7607.5	6840.5	6816.7	7069.2	7455.0	7921.8	8641.2
52.5°	11566.0	11461.2	10875.3	10022.6	9046.1	7883.7	7812.3	7950.4	8493.5	9046.1	9784.4
55°	11861.3	11870.9	11670.8	11242.1	10246.5	9150.9	9031.8	9022.2	9698.7	10075.0	10984.8
57.5°	12442.5	12466.3	12514.0	12599.7	12128.1	10418.0	10294.1	10160.7	10818.1	11037.2	12190.0
60°	13033.2	13061.8	13352.3	13814.4	13500.0	11785.1	11651.7	11337.3	11704.1	11999.5	13457.1
62.5°	12957.0	13157.0	14000.2	14919.6	14881.5	13285.7	13118.9	12361.5	12594.9	12852.2	14619.5
65°	11699.4	11913.7	13809.6	15224.4	16267.7	14767.1	14495.6	13419.0	13433.3	13743.0	15738.9
67.5°	10575.2	10808.6	12618.7	15095.8	17182.3	16096.2	15815.1	14481.3	14257.4	14771.9	16339.1
70°	9927.3	10160.7	11670.8	14695.7	17439.5	17568.1	17325.2	15696.0	15238.7	15710.3	15667.4
72.5°	7769.4	8136.2	10460.8	13933.5	17715.8	19144.9	18954.3	17234.7	16072.4	14729.0	11928.0
75°	3096.3	3434.5	6530.9	11213.5	17368.0	20502.5	20354.8	17925.4	14876.7	10518.0	6106.9
77.5°	933.7	1000.4	1814.9	5544.8	12733.1	18177.9	18130.2	15072.0	10527.5	4882.7	1667.3
80°	309.6	343.0	557.3	1529.1	5811.6	11356.4	11570.8	9603.4	4782.6	1119.4	338.2
82.5°	128.6	142.9	281.1	614.5	2057.9	4892.2	4820.8	4301.5	1667.3	695.5	123.9
85°	33.3	42.9	128.6	352.5	752.6	1686.3	1772.1	1443.4	943.2	576.4	38.1
87.5°	0.0	0.0	61.9	142.9	338.2	509.7	533.5	438.3	533.5	433.5	19.1
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°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2801.0	2777.2	2734.3	2705.7	2667.6	2658.1	2639.0	2615.2	2610.4	2586.6	2591.4
5°	2753.4	2715.2	2639.0	2586.6	2524.7	2505.6	2472.3	2448.5	2429.4	2396.1	2400.8
7.5°	2743.8	2686.7	2581.9	2481.8	2381.8	2310.3	2210.3	2129.3	2062.6	1991.2	2005.5
10°	2777.2	2705.7	2558.0	2419.9	2238.9	2010.2	1748.2	1576.7	1491.0	1405.3	1414.8
12.5°	2843.9	2758.1	2567.6	2358.0	1991.2	1600.6	1238.5	1005.1	943.2	905.1	909.8
15°	2943.9	2839.1	2596.2	2238.9	1657.7	1157.6	824.1	724.1	747.9	762.2	762.2
17.5°	3048.7	2929.6	2620.0	2024.5	1281.4	809.8	671.7	662.1	695.5	728.8	728.8
20°	3177.3	3024.9	2624.7	1753.0	924.1	657.4	633.6	633.6	657.4	695.5	695.5
22.5°	3301.2	3129.7	2581.9	1443.4	705.0	609.7	609.7	609.7	624.0	662.1	666.9
25°	3448.8	3258.3	2491.4	1114.7	605.0	581.2	581.2	585.9	595.4	628.8	633.6
27.5°	3606.0	3391.7	2338.9	814.6	552.6	547.8	552.6	557.3	562.1	595.4	605.0
30°	3787.1	3539.3	2143.6	609.7	504.9	504.9	519.2	528.8	528.8	557.3	566.9
32.5°	3996.7	3734.7	1910.2	504.9	457.3	452.5	476.4	490.6	490.6	514.5	524.0
35°	4258.6	3934.7	1629.1	447.8	419.2	409.7	419.2	443.0	452.5	471.6	476.4
37.5°	4606.4	4172.9	1329.0	414.4	390.6	371.6	371.6	376.3	395.4	414.4	419.2
40°	5049.4	4434.9	1033.7	390.6	362.0	343.0	328.7	323.9	319.2	333.5	343.0
42.5°	5606.7	4730.2	771.7	366.8	338.2	309.6	290.6	271.5	247.7	242.9	247.7
45°	6321.3	5092.3	571.6	347.7	323.9	281.1	247.7	214.4	171.5	157.2	162.0
47.5°	7164.4	5468.6	447.8	328.7	314.4	247.7	204.8	147.7	104.8	95.3	100.0
50°	8060.0	5830.6	381.1	304.9	295.3	214.4	147.7	90.5	61.9	61.9	66.7
52.5°	8822.2	6035.5	347.7	285.8	266.8	176.3	95.3	52.4	38.1	38.1	42.9
55°	9560.5	6145.0	323.9	266.8	228.7	123.9	52.4	33.3	23.8	23.8	23.8
57.5°	10322.7	6192.7	295.3	242.9	181.0	76.2	28.6	19.1	14.3	14.3	14.3
60°	10999.1	6102.2	252.5	200.1	119.1	38.1	14.3	14.3	9.5	4.8	4.8
62.5°	11566.0	5930.7	176.3	142.9	71.5	19.1	9.5	4.8	0.0	0.0	0.0
65°	11913.7	5654.4	114.3	95.3	42.9	14.3	4.8	0.0	0.0	0.0	0.0
67.5°	11813.7	5135.1	71.5	61.9	19.1	9.5	4.8	0.0	0.0	0.0	0.0
70°	10660.9	4211.0	52.4	38.1	14.3	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	7683.7	2848.6	38.1	23.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3696.5	1014.6	23.8	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	905.1	223.9	14.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	200.1	42.9	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.7	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	4.8	0.0	0.0	0.0	0.0	0.0	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)