

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: P400430

Luminaire Tested: **ARCH-L-PA3-280-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32620 lumens
Efficiency: N/A
Efficacy: 116.9 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

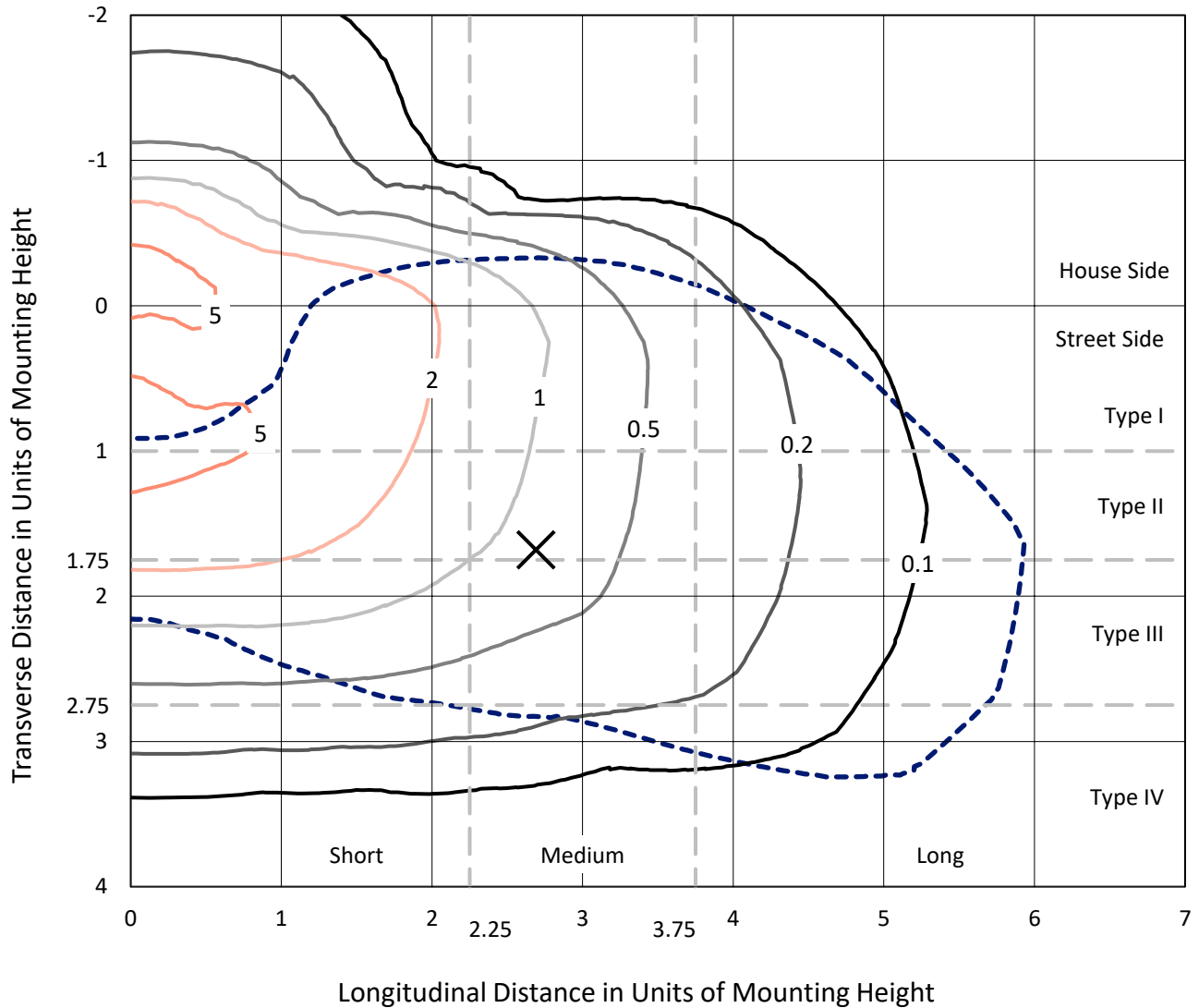
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

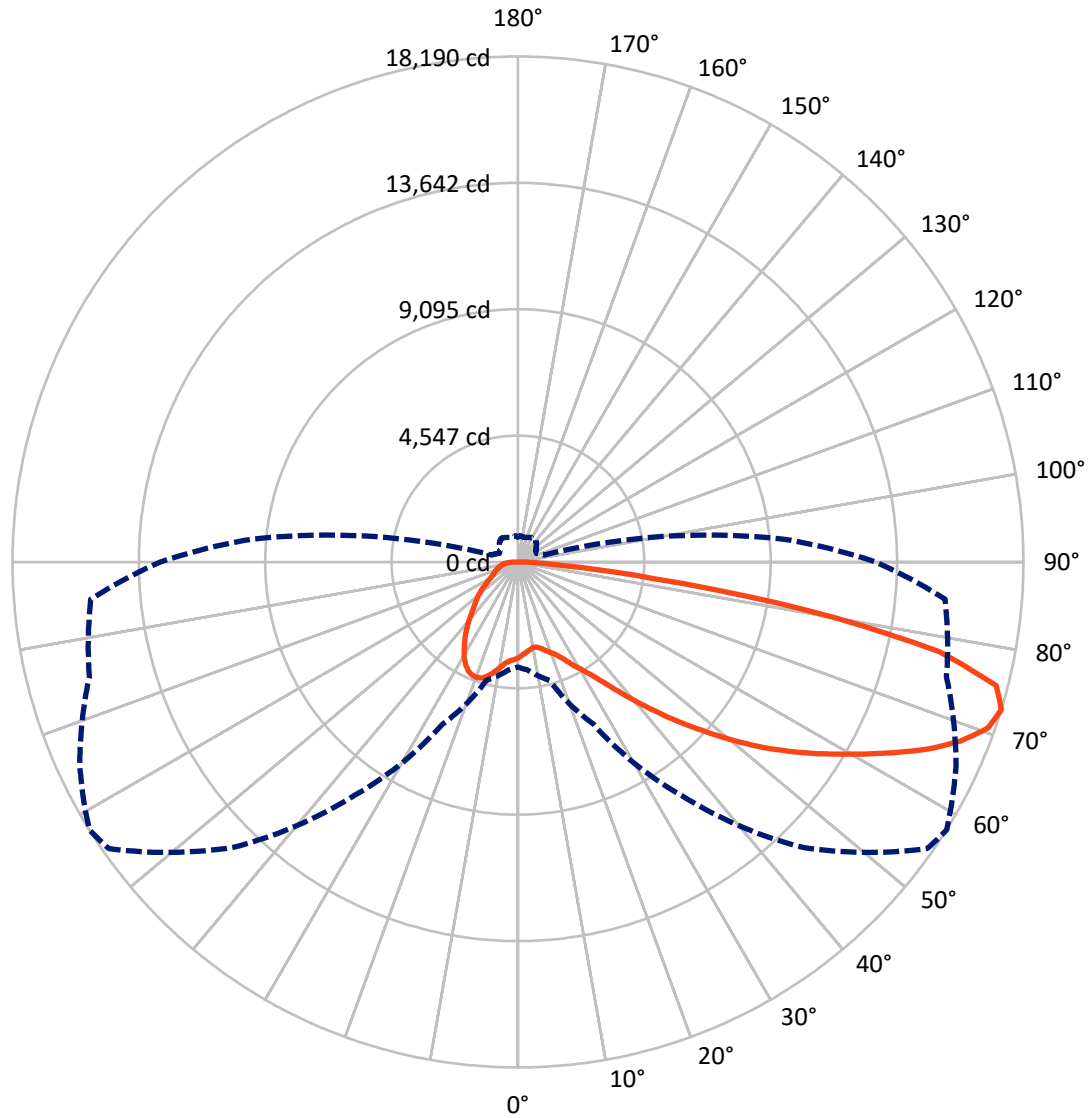
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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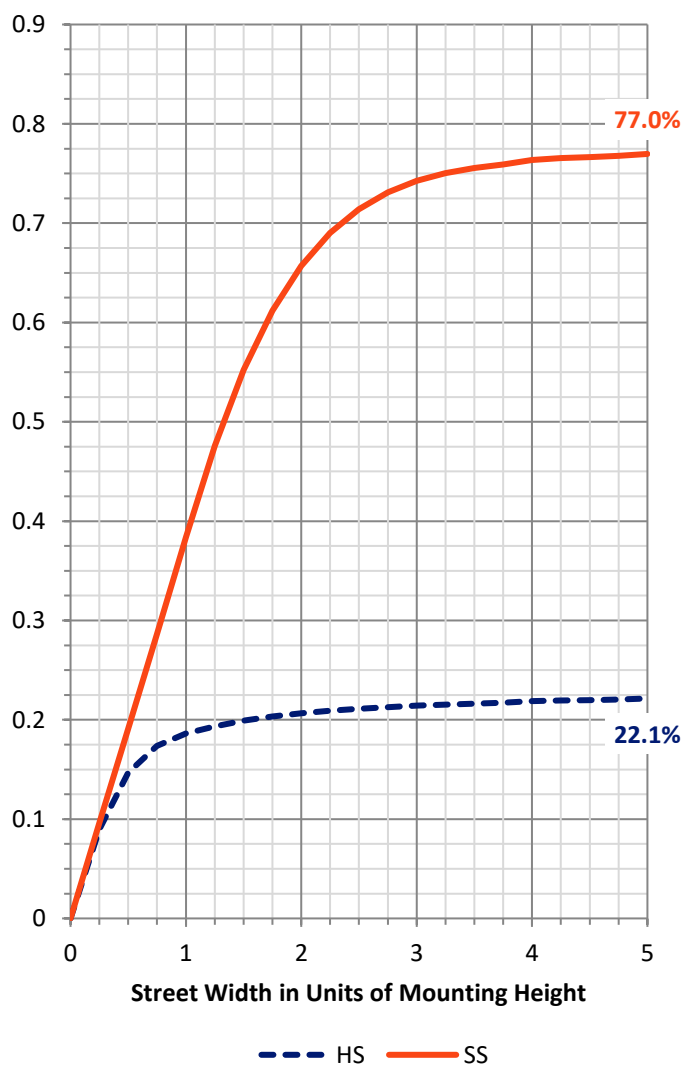
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7397.9	0.0	7397.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	25222.2	0.0	25222.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	32620.0	0.0	32620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	1.0
10°-20°	1052.6	3.2
20°-30°	1885.6	5.8
30°-40°	2836.4	8.7
40°-50°	4593.1	14.1
50°-60°	6914.2	21.2
60°-70°	8137.2	24.9
70°-80°	5770.0	17.7
80°-90°	1099.5	3.4
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°	32620.0	100.0
0°-180°	32620.0	100.0

Coefficient of Utilization



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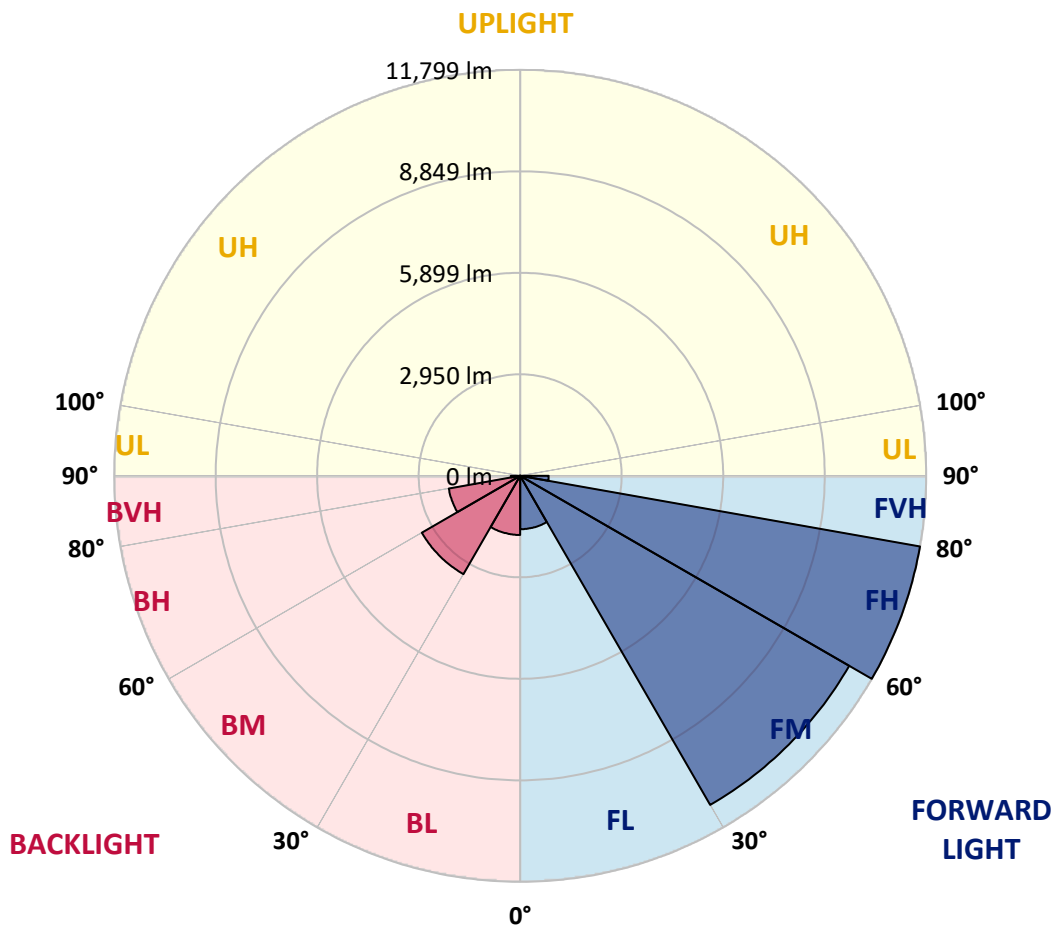
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.2	4.8			
FM (30°-60°)	11042.8	33.9			
FH (60°-80°)	11798.8	36.2			G4/12000
FVH (80°-90°)	829.3	2.5			G5
BL (0°-30°)	1718.4	5.3	B3/2500		
BM (30°-60°)	3300.9	10.1	B3/5000		
BH (60°-80°)	2108.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	270.1	0.8			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°	55°	58°	65°	75°	85°
0°	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7
2.5°	3311.5	3294.3	3298.6	3298.6	3315.8	3324.4	3328.8	3341.7	3350.3	3371.8	3402.0
5°	3156.5	3143.6	3147.9	3152.2	3182.3	3212.5	3238.3	3255.5	3281.4	3315.8	3358.9
7.5°	3044.5	3035.9	3040.2	3048.8	3074.7	3109.1	3152.2	3178.0	3216.8	3281.4	3354.6
10°	2962.7	2962.7	2967.0	2984.3	3010.1	3053.2	3087.6	3117.7	3195.3	3311.5	3423.5
12.5°	2898.1	2898.1	2911.0	2945.5	2988.6	3031.6	3113.4	3147.9	3251.2	3410.6	3544.1
15°	2893.8	2898.1	2902.4	2932.6	2979.9	3074.7	3195.3	3246.9	3371.8	3561.3	3716.3
17.5°	2962.7	2967.0	2949.8	2958.4	3014.4	3147.9	3307.2	3367.5	3526.8	3733.5	3892.9
20°	3173.7	3173.7	3122.1	3074.7	3113.4	3259.9	3440.7	3501.0	3677.6	3905.8	4065.1
22.5°	3604.4	3625.9	3505.3	3402.0	3341.7	3423.5	3587.1	3651.7	3849.8	4095.3	4254.6
25°	4125.4	4146.9	3983.3	3836.9	3724.9	3712.0	3819.7	3888.6	4052.2	4306.3	4439.8
27.5°	4629.2	4590.5	4439.8	4302.0	4159.9	4043.6	4125.4	4185.7	4375.2	4569.0	4650.8
30°	5025.4	4995.3	4848.9	4749.8	4616.3	4465.6	4418.2	4482.8	4637.9	4818.7	4861.8
32.5°	5464.7	5443.1	5296.7	5167.5	5055.6	4913.5	4810.1	4840.3	4926.4	5055.6	5081.4
35°	6024.5	6071.9	5916.8	5654.1	5529.3	5391.5	5318.3	5326.9	5391.5	5473.3	5430.2
37.5°	6614.4	6670.4	6679.0	6265.6	6097.7	5972.8	5895.3	5925.4	6003.0	6058.9	5925.4
40°	7708.2	7652.3	7428.3	7122.6	6864.2	6743.6	6636.0	6631.7	6687.7	6786.7	6545.5
42.5°	9159.5	9107.8	8655.6	8259.4	7850.3	7712.5	7501.5	7411.1	7436.9	7561.8	7225.9
45°	10550.4	10528.9	10167.1	9706.4	9215.4	8948.4	8466.1	8246.5	8225.0	8324.0	7923.6
47.5°	11786.3	11691.5	11428.9	11071.4	11019.8	10322.1	9435.1	9137.9	9034.6	9090.6	8642.7
50°	13108.3	12785.3	12423.6	12204.0	12578.6	11928.4	10412.6	10102.5	9848.5	9887.2	9422.1
52.5°	13810.2	13267.6	13030.8	13095.4	13599.2	13349.5	11476.2	11097.3	10688.2	10744.2	10197.3
55°	13207.4	13203.0	13306.4	13706.9	14408.8	14120.3	12488.2	12061.9	11614.0	11627.0	11088.7
57.5°	12380.6	12548.5	13082.5	13965.3	15412.2	14929.9	13483.0	13030.8	12621.7	12557.1	12100.6
60°	11627.0	11812.1	12587.3	13922.2	15761.0	15670.5	14430.3	14034.2	13702.6	13513.1	13164.3
62.5°	10481.5	10619.3	11717.4	13646.6	15468.2	16204.5	15390.6	15119.3	14869.6	14477.7	14309.8
65°	9133.6	9181.0	10339.4	12738.0	15102.1	16411.2	16346.6	16226.1	15984.9	15407.9	15442.3
67.5°	7673.8	7768.5	8784.8	11286.8	14301.2	16316.5	17087.3	17186.4	16902.1	16036.6	16165.8
70°	6119.2	6235.5	7006.3	9280.0	12940.4	15907.4	17772.0	17931.3	17384.4	16243.3	16299.3
72.5°	3785.2	3897.2	4413.9	6446.5	10257.6	14533.7	17983.0	18189.7	17397.4	15967.7	15429.4
75°	1309.1	1322.0	1726.8	3091.9	6089.1	10972.4	17294.0	17780.6	16850.5	14964.3	13427.0
77.5°	598.6	620.1	766.5	1274.7	2700.0	5921.1	14279.6	15498.3	15188.2	13396.8	10335.1
80°	413.4	422.0	529.7	762.2	1558.9	2084.2	9013.0	10602.1	11144.6	10373.8	6623.1
82.5°	310.1	318.7	409.1	516.8	1123.9	1012.0	3432.1	4926.4	6123.5	6011.6	2768.9
85°	297.1	292.8	318.7	344.5	749.3	602.9	1111.0	1524.4	2390.0	2045.5	697.6
87.5°	129.2	142.1	327.3	193.8	391.9	279.9	482.3	564.1	727.8	633.0	249.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7	3440.7
2.5°	3414.9	3423.5	3449.3	3488.1	3509.6	3552.7	3582.8	3600.0	3613.0	3617.3	3617.3
5°	3384.7	3402.0	3457.9	3522.5	3582.8	3673.3	3755.1	3802.4	3836.9	3849.8	3854.1
7.5°	3393.3	3436.4	3518.2	3613.0	3690.5	3806.8	3905.8	4000.5	4078.0	4108.2	4108.2
10°	3475.2	3535.5	3647.4	3772.3	3871.3	3991.9	4095.3	4177.1	4267.5	4319.2	4327.8
12.5°	3600.0	3673.3	3819.7	3957.5	4069.4	4164.2	4258.9	4319.2	4362.3	4401.0	4409.6
15°	3776.6	3867.0	4013.5	4155.6	4254.6	4314.9	4340.7	4340.7	4336.4	4340.7	4349.3
17.5°	3953.2	4039.3	4185.7	4327.8	4375.2	4340.7	4310.6	4302.0	4297.7	4289.1	4293.4
20°	4125.4	4207.2	4332.1	4439.8	4401.0	4280.4	4241.7	4237.4	4224.5	4215.8	4207.2
22.5°	4297.7	4358.0	4461.3	4500.1	4345.0	4172.8	4125.4	4099.6	4082.4	4060.8	4039.3
25°	4495.8	4513.0	4590.5	4530.2	4207.2	3974.7	3905.8	3867.0	3849.8	3828.3	3811.1
27.5°	4680.9	4680.9	4693.8	4482.8	4004.8	3712.0	3608.7	3539.8	3535.5	3531.1	3526.8
30°	4848.9	4827.3	4784.3	4340.7	3742.2	3389.0	3234.0	3165.1	3191.0	3212.5	3216.8
32.5°	5047.0	5003.9	4883.3	4146.9	3427.8	3027.3	2837.8	2807.7	2837.8	2863.7	2846.5
35°	5357.0	5279.5	4986.7	3923.0	3126.4	2695.7	2514.9	2471.8	2463.2	2458.9	2424.4
37.5°	5800.6	5667.1	5068.5	3681.9	2829.2	2402.9	2269.4	2179.0	2097.2	2011.0	1998.1
40°	6343.1	6114.9	5124.5	3406.3	2514.9	2157.4	2015.3	1899.1	1761.3	1610.5	1593.3
42.5°	6937.4	6597.2	5150.3	3100.5	2239.3	1955.1	1778.5	1632.1	1477.1	1360.8	1339.3
45°	7579.1	7118.3	5128.8	2807.7	2015.3	1782.8	1584.7	1425.4	1300.5	1218.7	1201.5
47.5°	8203.5	7716.9	5068.5	2575.2	1843.1	1636.4	1434.0	1287.6	1192.8	1102.4	1080.9
50°	9004.4	8289.6	4995.3	2394.3	1653.6	1490.0	1339.3	1184.2	1076.6	1033.5	1024.9
52.5°	9891.5	8862.3	4909.2	2166.1	1468.4	1373.7	1279.0	1141.2	1106.7	1024.9	1012.0
55°	10851.8	9542.7	4891.9	1877.5	1304.8	1291.9	1218.7	1179.9	1188.5	1024.9	1003.4
57.5°	11863.8	10270.5	4930.7	1589.0	1171.3	1218.7	1244.5	1214.4	1201.5	1046.4	1003.4
60°	12918.8	10972.4	4814.4	1322.0	1068.0	1158.4	1274.7	1197.1	1102.4	1037.8	1007.7
62.5°	13943.7	11562.4	4310.6	1132.6	990.4	1141.2	1257.4	1132.6	1024.9	1024.9	1012.0
65°	14688.7	11825.0	3371.8	994.8	938.8	1119.6	1227.3	1089.5	1003.4	1033.5	1016.3
67.5°	14774.8	11553.7	2265.1	887.1	895.7	1080.9	1158.4	1050.7	981.8	1059.3	1033.5
70°	14245.2	10847.5	1386.6	805.3	839.7	1012.0	1098.1	1012.0	951.7	1037.8	999.1
72.5°	12871.5	9529.8	977.5	736.4	779.4	947.4	1042.1	977.5	908.6	938.8	900.0
75°	10559.0	7385.3	775.1	671.8	719.1	887.1	994.8	925.8	856.9	844.0	818.2
77.5°	7480.0	4732.6	624.4	620.1	654.6	813.9	930.2	865.6	796.7	770.8	753.6
80°	4302.0	2321.1	538.3	559.8	594.3	740.7	852.6	796.7	732.1	693.3	667.5
82.5°	1645.0	809.6	473.7	486.6	525.4	663.2	775.1	727.8	663.2	697.6	585.7
85°	534.0	443.5	387.6	400.5	439.2	551.2	684.7	645.9	572.7	508.1	469.4
87.5°	236.8	241.2	206.7	228.2	275.6	366.0	499.5	473.7	417.7	348.8	335.9
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)