

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: LUMARK

Report Number: P285829

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C175-D-UNV-T4-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47687 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

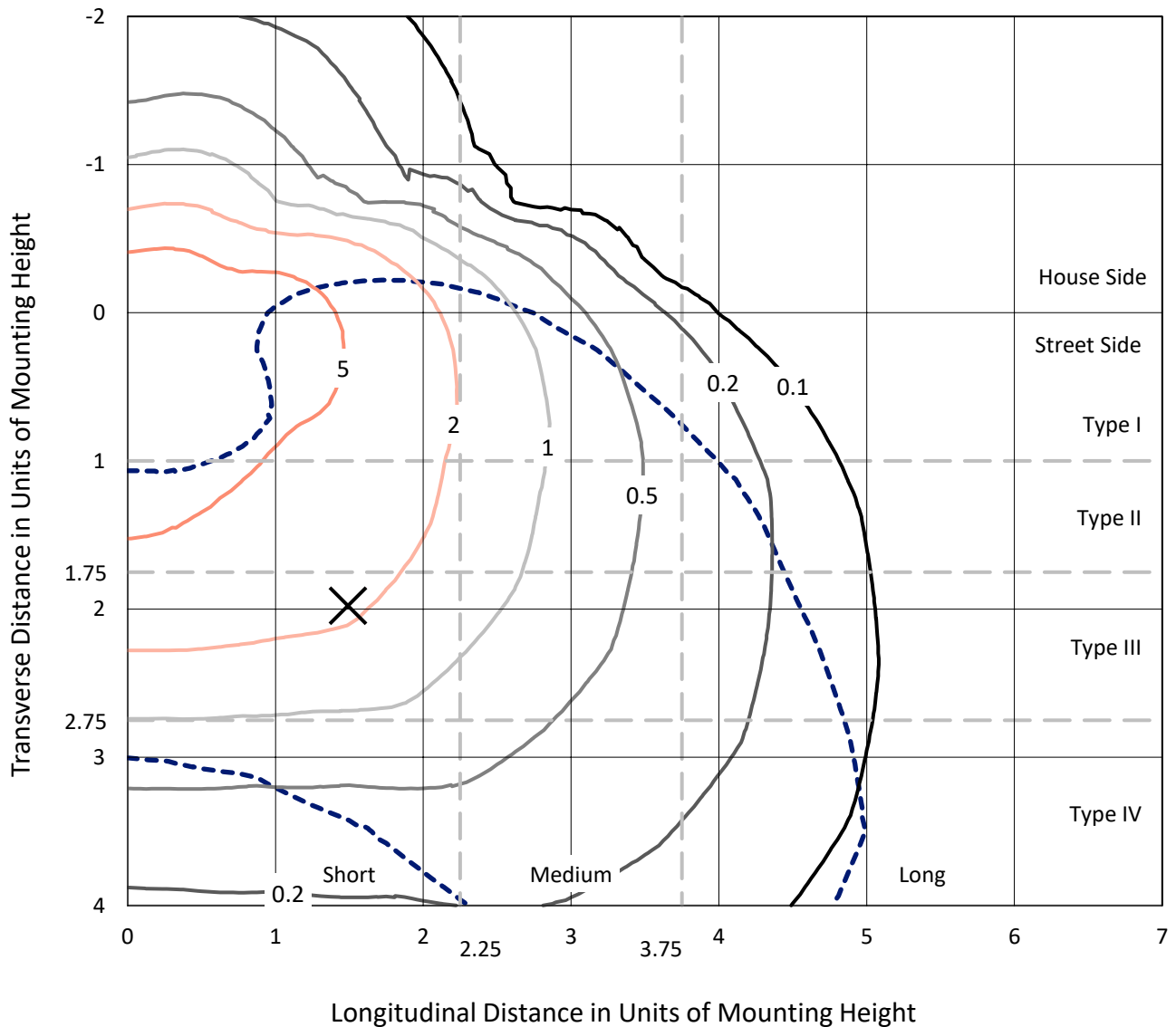
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

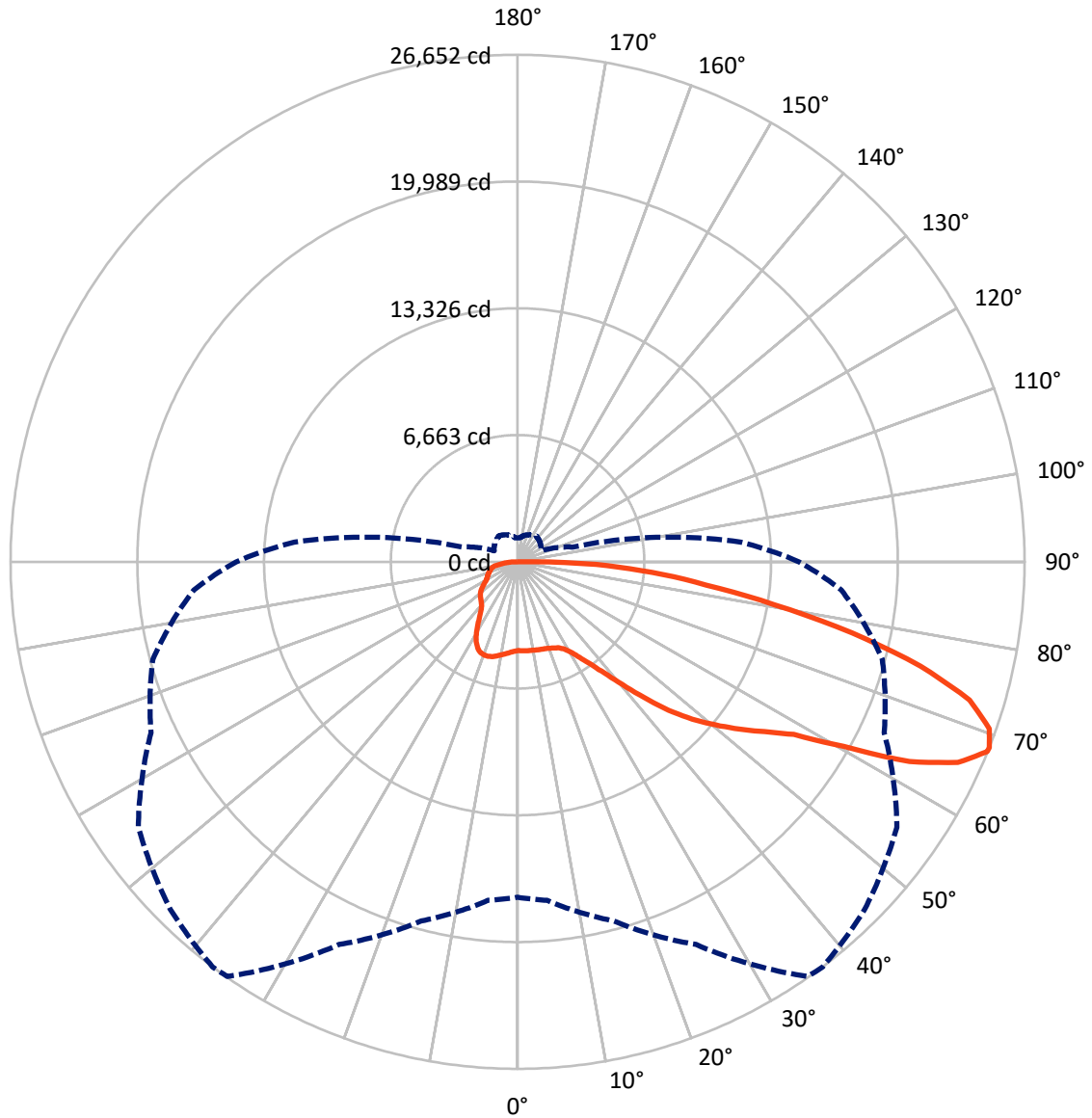
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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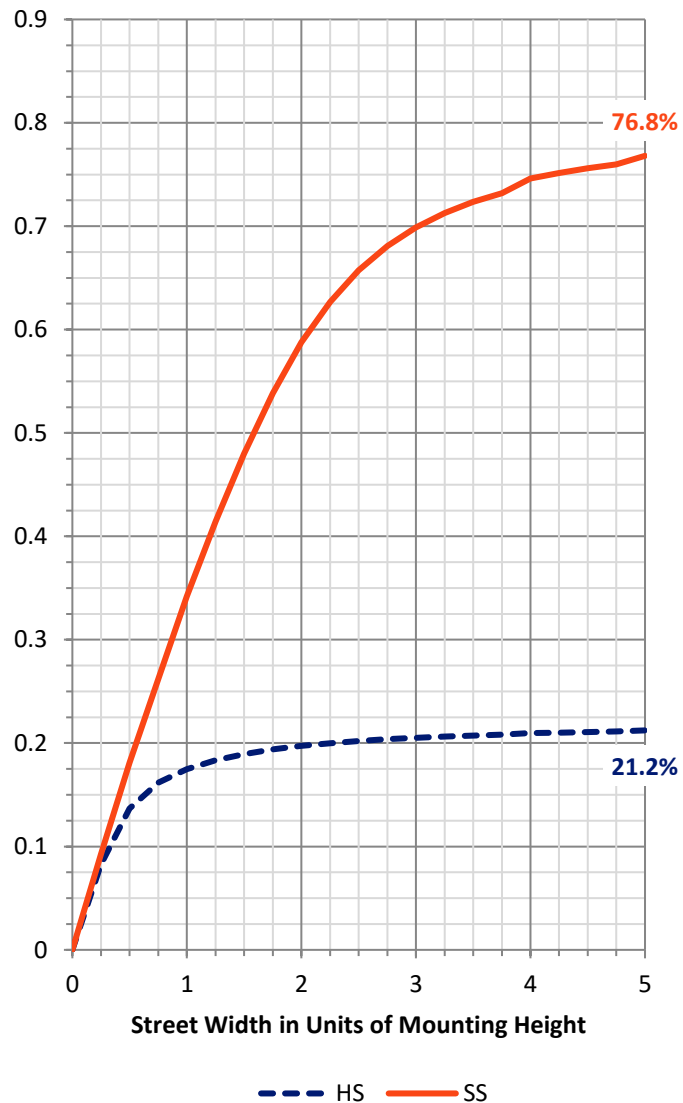
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10297.0	0.0	10297.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37390.0	0.0	37390.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	47687.0	0.0	47687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	0.9
10°-20°	1407.5	3.0
20°-30°	2404.2	5.0
30°-40°	3830.2	8.0
40°-50°	6643.0	13.9
50°-60°	9629.3	20.2
60°-70°	12143.6	25.5
70°-80°	8998.3	18.9
80°-90°	2178.0	4.6
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°	47687.0	100.0
0°-180°	47687.0	100.0

Coefficient of Utilization



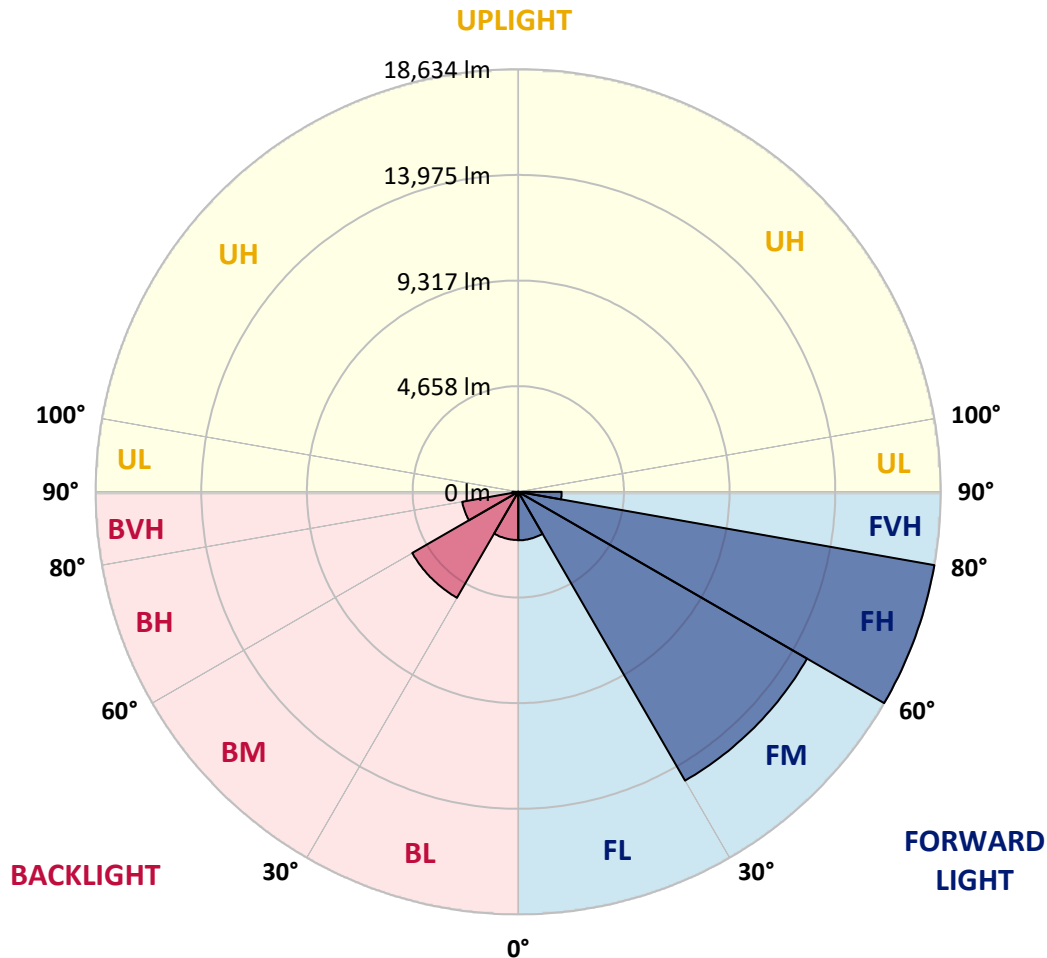
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.8	4.5			
FM (30°-60°)	14704.6	30.8			
FH (60°-80°)	18633.6	39.1			G5
FVH (80°-90°)	1914.0	4.0			G5
BL (0°-30°)	2126.7	4.5	B3/2500		
BM (30°-60°)	5397.9	11.3	B4/8500		
BH (60°-80°)	2508.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	264.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4661.2	4674.0	4677.7	4670.4	4677.7	4685.0	4668.5	4666.7	4659.4	4630.2	4633.8
5°	4663.0	4679.5	4681.3	4675.8	4688.6	4695.9	4688.6	4681.3	4674.0	4632.0	4641.1
7.5°	4663.0	4675.8	4679.5	4675.8	4694.1	4706.9	4706.9	4712.4	4712.4	4664.9	4672.2
10°	4646.6	4657.6	4663.0	4672.2	4703.2	4721.5	4732.5	4758.1	4772.7	4739.8	4741.6
12.5°	4571.7	4580.8	4599.1	4652.1	4725.2	4747.1	4778.2	4823.8	4860.4	4860.4	4864.0
15°	4513.2	4522.4	4557.1	4628.3	4739.8	4769.0	4829.3	4906.1	4973.7	5010.2	5039.5
17.5°	4527.8	4538.8	4590.0	4650.3	4761.7	4791.0	4876.8	4988.3	5099.8	5178.3	5236.8
20°	4573.5	4580.8	4639.3	4708.7	4827.5	4847.6	4931.6	5068.7	5224.0	5353.7	5448.7
22.5°	4703.2	4699.6	4747.1	4774.5	4896.9	4915.2	5012.0	5152.7	5353.7	5549.2	5688.1
25°	4811.1	4827.5	4865.9	4887.8	4988.3	5004.7	5125.3	5280.6	5512.7	5764.9	5987.8
27.5°	4929.8	4944.4	4982.8	5032.1	5172.8	5182.0	5266.0	5457.9	5715.5	6024.3	6380.6
30°	5198.4	5196.6	5235.0	5288.0	5478.0	5494.4	5573.0	5770.3	6009.7	6395.2	6824.6
32.5°	5662.5	5658.9	5664.4	5737.4	5943.9	5982.3	6082.8	6344.1	6643.7	7016.5	7493.4
35°	6614.5	6576.1	6503.1	6444.6	6561.5	6605.4	6824.6	7148.1	7683.4	8416.1	9006.3
37.5°	8187.7	8127.4	7880.8	7546.4	7411.2	7405.7	7559.2	8050.7	8883.9	10353.0	10886.5
40°	9695.2	9697.0	9362.6	8909.5	8487.4	8465.5	8377.8	8986.2	10183.1	12171.1	12421.4
42.5°	11124.1	11114.9	10725.7	10311.0	9806.7	9740.9	9485.1	9952.8	11480.4	13667.6	13716.9
45°	12412.3	12383.0	11964.6	11697.8	11264.8	11133.2	10793.3	10941.4	12695.5	14868.0	14694.4
47.5°	13656.6	13627.4	13104.8	12847.1	12467.1	12357.4	11997.5	12063.3	13857.6	15867.5	15485.6
50°	14941.1	14932.0	14175.5	13925.2	13521.4	13475.7	13258.3	13305.8	15070.9	16698.9	16222.0
52.5°	16463.2	16227.5	15377.8	14899.1	14612.2	14610.4	14367.4	14489.8	16412.0	17440.7	16733.6
55°	18096.7	17798.9	16929.1	16240.3	15746.9	15754.2	15376.0	15573.3	17590.6	18104.0	17223.3
57.5°	19262.5	19200.4	18940.9	18252.0	17232.4	17111.9	16530.8	16686.1	18624.8	18791.1	17576.0
60°	20349.7	20614.6	20788.2	20568.9	20055.5	19706.5	18094.9	17862.8	19536.6	19395.9	17760.5
62.5°	21034.9	21171.9	21981.4	22282.9	23088.7	23116.1	21188.4	19288.1	20313.1	19775.9	17842.7
65°	20280.2	20483.1	21824.2	23002.8	25301.4	25433.0	24619.9	21665.3	20932.6	19907.5	17687.4
67.5°	18175.3	18387.2	19998.8	22416.2	26525.7	26615.2	25771.0	24132.0	21241.4	19880.1	17232.4
68°	17636.3	17862.8	19543.9	22195.2	26609.7	26651.7	25816.7	24336.7	21261.5	19849.0	17084.4
70°	15405.2	15628.2	17331.1	20812.0	26277.2	26304.6	25528.0	24552.3	21157.3	19582.2	16110.5
72.5°	12101.6	12326.4	13669.4	17654.5	24607.1	24846.4	24449.9	23938.3	20716.9	18542.6	13813.7
75°	8575.1	8805.3	10203.2	13817.4	21213.9	21879.0	22670.2	22761.6	19068.8	15924.2	10290.9
77.5°	6046.2	6234.5	7444.1	10329.2	17121.0	17981.6	19629.7	19765.0	15969.8	12151.0	5428.6
80°	3924.9	4085.6	5169.2	7570.1	12942.1	13685.8	15496.6	14937.5	11348.8	6607.2	944.7
82.5°	2369.9	2490.5	3292.6	5236.8	9470.4	9965.6	10703.8	8968.0	5266.0	933.7	330.7
85°	1359.4	1441.7	2033.7	3363.9	6673.0	7095.1	7197.4	4502.3	990.3	257.6	186.4
87.5°	696.2	738.2	1090.8	2066.6	3943.1	4124.0	3610.6	1611.6	197.3	115.1	93.2
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°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4615.5	4628.3	4637.5	4668.5	4701.4	4717.9	4701.4	4727.0	4736.1	4728.8	4717.9
5°	4626.5	4646.6	4661.2	4723.3	4759.9	4787.3	4769.0	4805.6	4818.4	4803.7	4803.7
7.5°	4657.6	4685.0	4708.7	4791.0	4833.0	4869.5	4858.6	4884.1	4895.1	4876.8	4887.8
10°	4739.8	4767.2	4798.3	4900.6	4928.0	4962.7	4942.6	4962.7	4966.4	4953.6	4962.7
12.5°	4882.3	4900.6	4960.9	5065.0	5068.7	5077.8	5035.8	4997.4	4981.0	4957.2	4973.7
15°	5065.0	5097.9	5180.1	5267.9	5244.1	5224.0	5119.9	4995.6	4917.0	4858.6	4854.9
17.5°	5267.9	5326.3	5428.6	5485.3	5430.5	5339.1	5163.7	4953.6	4763.5	4659.4	4626.5
20°	5476.2	5567.5	5680.8	5691.8	5598.6	5423.2	5156.4	4845.8	4531.5	4337.8	4290.3
22.5°	5730.1	5848.9	5951.2	5896.4	5710.0	5452.4	5088.8	4655.7	4224.5	3930.3	3886.5
25°	6066.3	6183.3	6201.6	6040.8	5752.1	5397.6	4933.5	4372.5	3826.2	3460.7	3426.0
27.5°	6472.0	6534.1	6415.3	6115.7	5700.9	5233.1	4668.5	3979.7	3382.2	3064.2	3011.2
30°	6921.5	6899.6	6572.5	6117.5	5551.1	4953.6	4266.5	3533.8	3031.3	2757.3	2706.1
32.5°	7491.6	7347.2	6731.5	6035.3	5304.4	4577.2	3793.3	3177.5	2790.2	2510.6	2461.3
35°	8624.4	8185.9	6947.1	5905.6	4977.3	4125.8	3378.5	2919.9	2583.7	2262.1	2216.4
37.5°	10347.5	9439.4	7336.3	5763.0	4613.7	3663.6	3060.6	2718.9	2421.1	2077.5	2006.3
40°	11858.6	10824.4	7957.5	5629.6	4242.8	3312.7	2877.9	2622.1	2331.5	1984.4	1911.3
42.5°	13018.9	11933.5	8668.3	5470.7	3855.4	3053.3	2801.1	2609.3	2320.6	1984.4	1916.7
45°	13956.3	12849.0	9300.5	5297.1	3480.8	2848.6	2731.7	2585.5	2298.6	1973.4	1909.4
47.5°	14696.3	13532.3	9799.3	5097.9	3091.6	2709.8	2660.4	2503.3	2242.0	1940.5	1876.5
50°	15337.6	14022.0	10078.9	4864.0	2746.3	2600.1	2559.9	2371.7	2128.7	1843.7	1801.6
52.5°	15785.3	14420.4	10184.9	4767.2	2499.6	2475.9	2422.9	2238.3	2006.3	1728.5	1681.0
55°	16121.5	14625.0	10097.2	4546.1	2253.0	2284.0	2260.3	2136.0	1920.4	1657.3	1609.8
57.5°	16293.3	14692.6	9846.9	3712.9	2019.1	2055.6	2072.1	2079.4	1907.6	1677.4	1633.5
60°	16353.6	14586.6	9300.5	2651.3	1768.7	1841.8	1933.2	1960.6	1851.0	1600.6	1564.1
62.5°	16262.2	14310.7	8229.8	1832.7	1578.7	1708.4	1829.0	1821.7	1704.8	1487.4	1438.0
65°	15905.9	13634.7	6258.2	1478.2	1514.8	1648.1	1781.5	1692.0	1578.7	1377.7	1352.1
67.5°	15043.4	12211.3	3510.1	1364.9	1494.7	1613.4	1699.3	1591.5	1465.4	1275.4	1264.4
68°	14787.6	11792.8	2996.6	1357.6	1491.0	1602.5	1677.4	1565.9	1443.5	1258.9	1251.6
70°	13296.6	9636.7	1352.1	1333.9	1469.1	1562.3	1617.1	1494.7	1363.1	1202.3	1191.3
72.5°	10274.4	5967.7	908.1	1268.1	1414.3	1502.0	1536.7	1421.6	1311.9	1132.9	1118.3
75°	6090.1	1640.8	860.6	1154.8	1321.1	1443.5	1480.0	1364.9	1235.2	1028.7	1005.0
77.5°	1498.3	592.0	833.2	1026.9	1224.2	1346.7	1405.1	1326.6	1169.4	926.4	902.6
80°	455.0	471.4	793.0	888.0	1101.8	1202.3	1237.0	1237.0	1081.7	652.3	687.0
82.5°	299.7	378.2	676.1	666.9	875.2	995.8	930.1	933.7	849.7	290.5	339.9
85°	188.2	308.8	456.8	436.7	557.3	610.3	661.5	679.7	597.5	84.1	5.5
87.5°	96.8	131.6	160.8	171.8	221.1	316.1	423.9	416.6	307.0	74.9	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)