

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: P381257

Luminaire Tested: **PRV-XL-PA3B-740-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-740-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22536 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

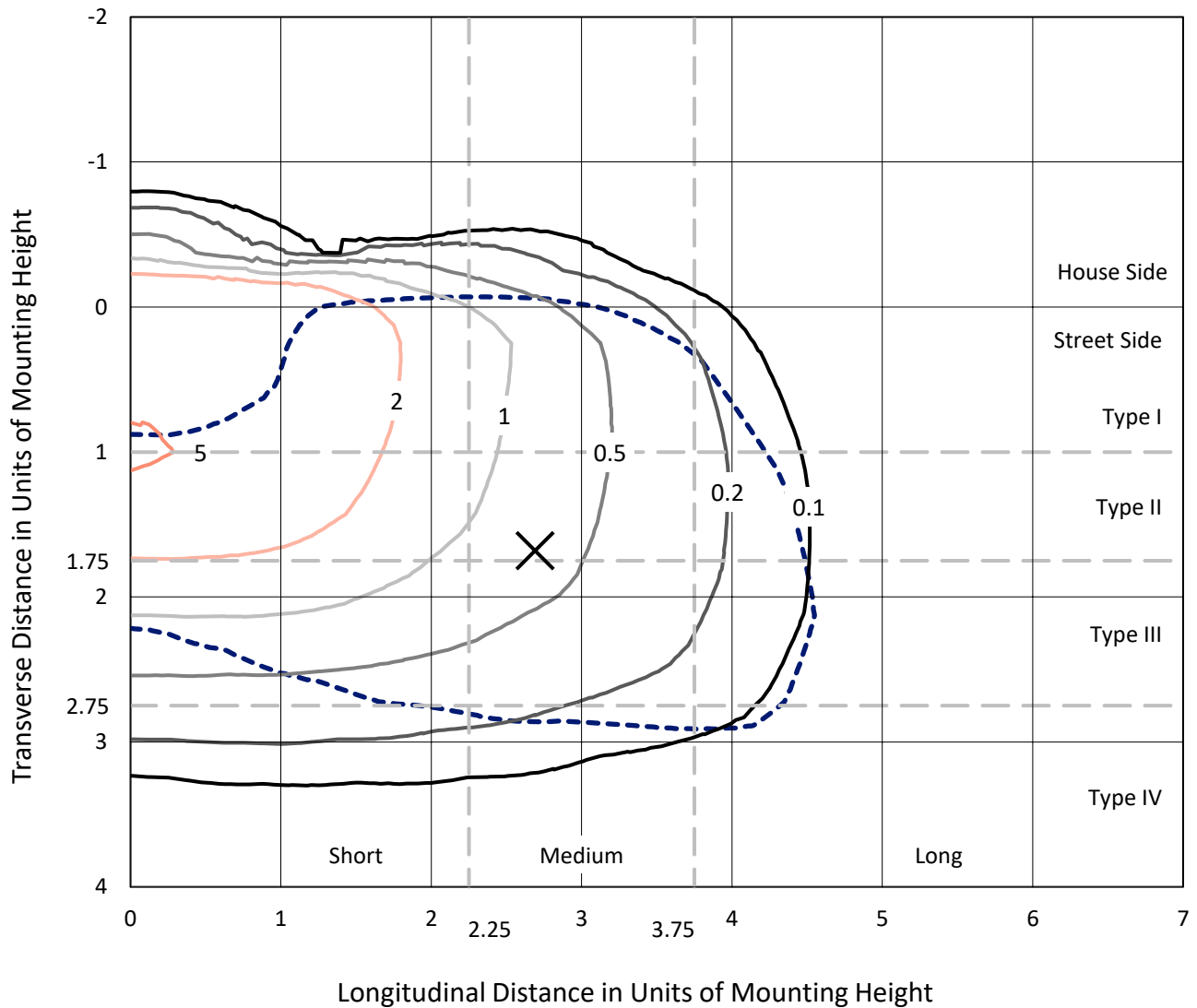
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

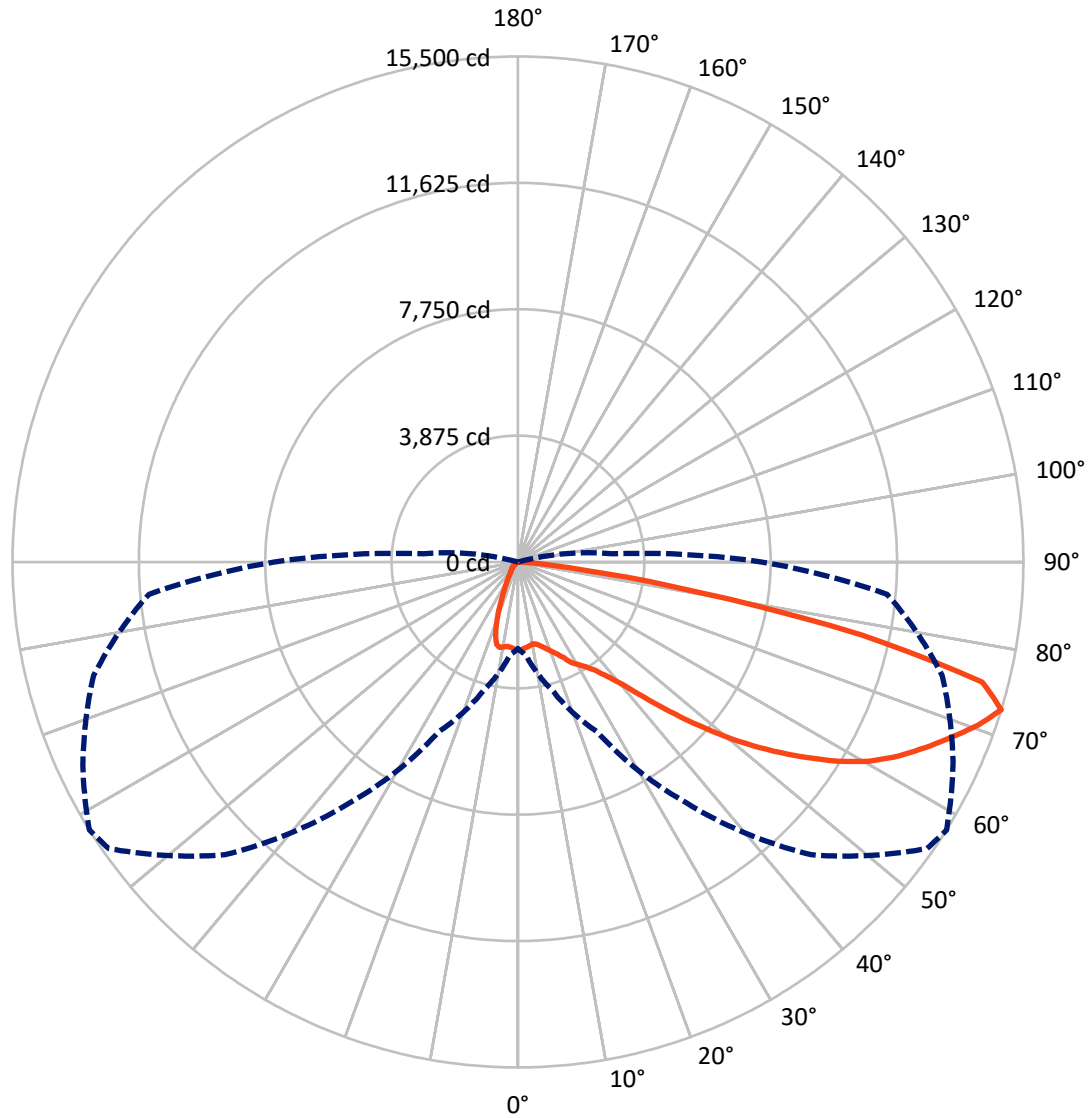
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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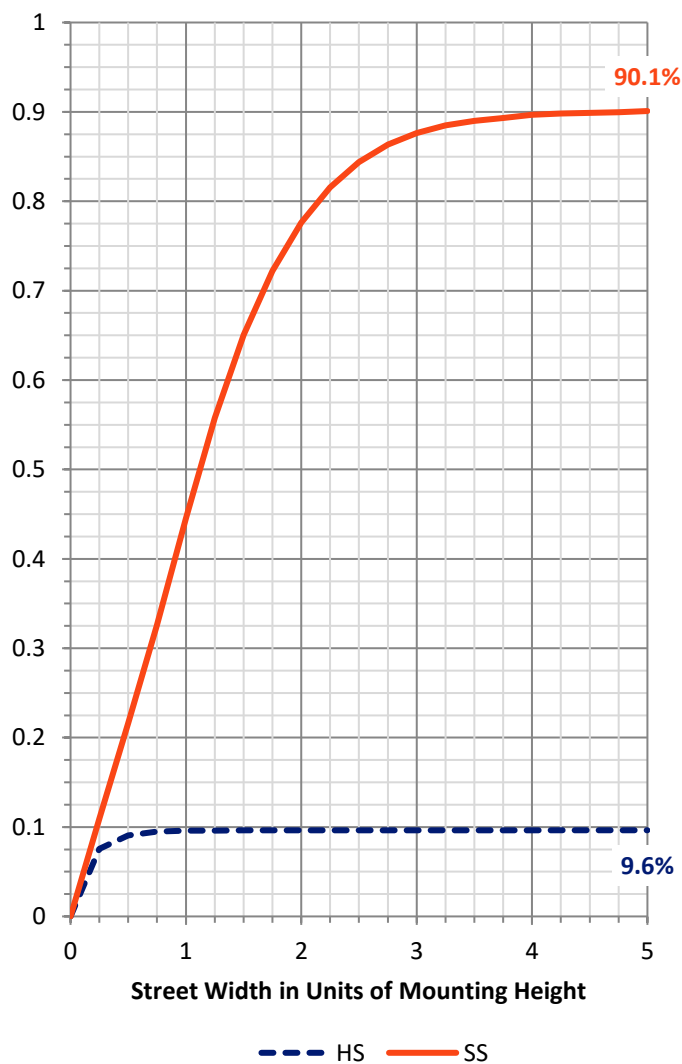
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.5	0.0	2191.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	20344.5	0.0	20344.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	22536.0	0.0	22536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.1
10°-20°	646.4	2.9
20°-30°	1015.4	4.5
30°-40°	1751.2	7.8
40°-50°	3331.8	14.8
50°-60°	5276.5	23.4
60°-70°	6157.1	27.3
70°-80°	3856.2	17.1
80°-90°	253.1	1.1
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°	22536.0	100.0
0°-180°	22536.0	100.0

Coefficient of Utilization

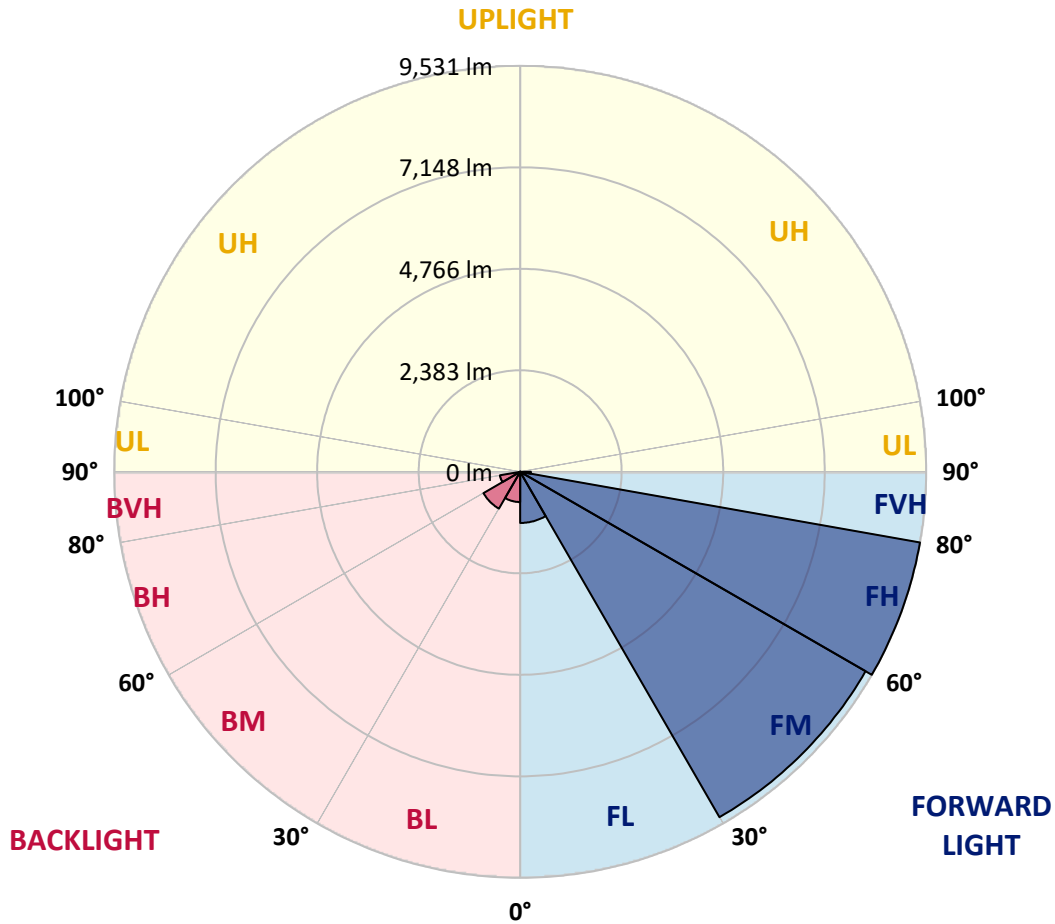


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.3	5.3			
FM (30°-60°)	9362.4	41.5			
FH (60°-80°)	9531.1	42.3			G4/12000
FVH (80°-90°)	250.7	1.1			G3/500
BL (0°-30°)	709.7	3.1	B2/1000		
BM (30°-60°)	997.1	4.4	B1/1000		
BH (60°-80°)	482.2	2.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2692.1	2680.0	2676.0	2671.9	2676.0	2680.0	2667.9	2680.0	2671.9	2676.0	2684.0
5°	2595.4	2583.3	2579.3	2583.3	2595.4	2615.5	2623.6	2635.7	2635.7	2647.8	2651.8
7.5°	2486.6	2478.5	2474.5	2482.5	2506.7	2551.0	2575.2	2591.3	2607.5	2631.6	2655.8
10°	2426.1	2422.1	2418.0	2430.1	2454.3	2494.6	2526.9	2551.0	2611.5	2680.0	2724.3
12.5°	2385.8	2385.8	2393.9	2418.0	2450.3	2482.5	2559.1	2591.3	2684.0	2788.8	2849.3
15°	2353.6	2353.6	2365.7	2410.0	2454.3	2530.9	2643.7	2680.0	2788.8	2917.8	2998.4
17.5°	2329.4	2337.4	2345.5	2389.8	2474.5	2603.4	2736.4	2788.8	2921.8	3062.9	3151.5
20°	2333.4	2341.5	2345.5	2389.8	2510.7	2688.1	2857.3	2917.8	3070.9	3220.0	3308.7
22.5°	2357.6	2369.7	2373.7	2434.2	2575.2	2776.7	2994.3	3062.9	3228.1	3385.3	3453.8
25°	2458.3	2466.4	2442.2	2494.6	2667.9	2913.7	3171.7	3244.2	3409.4	3554.5	3611.0
27.5°	2800.9	2809.0	2676.0	2615.5	2740.5	3026.6	3389.3	3490.0	3695.6	3792.3	3800.4
30°	3542.4	3550.5	3288.5	3002.4	2913.7	3123.3	3510.2	3651.3	3917.2	4026.0	3977.7
32.5°	4497.6	4489.5	4130.8	3707.7	3324.8	3292.6	3683.5	3832.6	4122.8	4227.6	4191.3
35°	5456.7	5468.8	5162.5	4525.8	3977.7	3611.0	3905.1	4078.4	4429.1	4578.2	4513.7
37.5°	6113.6	6194.2	6061.2	5372.1	4779.7	4199.3	4263.8	4449.2	4888.5	5090.0	4953.0
40°	7040.5	7020.4	6698.0	6190.2	5666.3	5069.8	4844.2	4932.8	5436.6	5706.6	5493.0
42.5°	8285.8	8245.5	7697.4	7201.8	6617.4	6129.7	5670.3	5654.2	6065.3	6379.6	6069.3
45°	9414.3	9353.8	8979.0	8499.4	7858.7	7298.5	6677.8	6536.8	6822.9	7088.9	6726.2
47.5°	10313.0	10212.2	9946.2	9692.3	9535.2	8664.7	7733.7	7520.1	7665.2	7862.7	7350.9
50°	11376.9	11098.8	10711.9	10558.8	10885.2	10212.2	8749.3	8543.8	8535.7	8648.5	7995.7
52.5°	11860.5	11356.8	11139.1	11268.1	11844.4	11651.0	9845.5	9551.3	9434.4	9446.5	8596.2
55°	11276.2	11219.7	11336.6	11739.6	12493.2	12380.4	10897.3	10534.6	10361.3	10143.7	9172.5
57.5°	10611.2	10784.5	11247.9	12017.7	13315.4	13142.1	11933.1	11522.0	11203.6	10703.9	9813.2
60°	9998.6	10175.9	10941.7	12082.2	13766.7	13875.6	12795.5	12404.6	11933.1	11276.2	10518.5
62.5°	9067.7	9204.7	10280.7	11989.5	13569.3	14302.7	13396.0	13101.8	12662.5	11820.2	11328.6
65°	8019.9	8108.5	9172.5	11247.9	13182.4	14254.4	13891.7	13726.4	13299.3	12388.5	12130.5
67.5°	6871.3	6976.1	7862.7	9914.0	12424.7	14028.7	14359.2	14343.0	13855.4	13017.2	12710.9
70°	5549.4	5557.5	6291.0	8221.4	11102.9	13577.3	14939.5	14975.8	14387.4	13488.7	12735.0
72.5°	2655.8	2873.4	4078.4	5738.8	9023.3	12690.7	15318.3	15499.7	14721.9	13472.6	11360.8
75°	608.5	628.7	1188.9	2728.4	5291.5	9740.7	14371.3	14709.8	13907.8	11651.0	8003.7
77.5°	221.7	233.7	334.5	798.0	2035.2	5033.6	10284.8	10780.5	10280.7	7532.2	3784.2
80°	149.1	145.1	173.3	354.6	935.0	1426.6	5259.3	5553.4	5069.8	2571.2	906.8
82.5°	76.6	80.6	120.9	197.5	628.7	495.7	1757.1	1910.3	1571.7	515.9	169.3
85°	36.3	36.3	68.5	124.9	266.0	173.3	390.9	471.5	423.2	225.7	56.4
87.5°	36.3	36.3	64.5	80.6	137.0	72.5	96.7	120.9	112.8	120.9	20.2
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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2684.0	2680.0	2676.0	2684.0	2680.0	2688.1	2688.1	2696.1	2696.1	2688.1	2684.0
5°	2647.8	2639.7	2631.6	2631.6	2627.6	2635.7	2659.9	2680.0	2684.0	2671.9	2667.9
7.5°	2651.8	2651.8	2643.7	2627.6	2599.4	2599.4	2599.4	2623.6	2635.7	2627.6	2623.6
10°	2724.3	2728.4	2708.2	2671.9	2623.6	2579.3	2494.6	2369.7	2252.8	2220.6	2208.5
12.5°	2849.3	2853.3	2813.0	2748.5	2647.8	2385.8	2063.4	1765.2	1535.5	1471.0	1458.9
15°	2998.4	3002.4	2929.9	2825.1	2518.8	1910.3	1430.7	1092.2	890.6	842.3	838.3
17.5°	3151.5	3143.5	3034.6	2833.1	2135.9	1354.1	870.5	697.2	644.8	632.7	636.8
20°	3300.6	3276.5	3127.3	2684.0	1644.3	886.6	636.8	596.5	584.4	576.3	576.3
22.5°	3437.7	3389.3	3203.9	2389.8	1152.6	636.8	568.2	560.2	544.1	532.0	527.9
25°	3574.7	3506.2	3252.3	2007.0	773.8	556.2	536.0	519.9	499.7	483.6	479.6
27.5°	3739.9	3643.2	3228.1	1523.4	580.3	515.9	499.7	475.5	447.3	423.2	415.1
30°	3897.1	3788.3	3091.1	1051.9	495.7	475.5	451.4	415.1	378.8	350.6	342.6
32.5°	4094.6	3969.6	2845.2	689.1	431.2	415.1	390.9	346.6	298.2	266.0	257.9
35°	4376.7	4235.6	2530.9	483.6	378.8	350.6	318.4	270.0	217.6	193.4	189.4
37.5°	4771.6	4582.2	2135.9	390.9	334.5	294.2	245.8	197.5	161.2	141.1	137.0
40°	5255.2	4965.1	1696.7	346.6	298.2	245.8	185.4	141.1	116.9	100.8	100.8
42.5°	5779.1	5323.7	1249.3	318.4	262.0	201.5	137.0	100.8	84.6	76.6	72.5
45°	6319.2	5642.1	842.3	294.2	229.7	153.1	96.7	68.5	56.4	56.4	52.4
47.5°	6879.3	5855.7	544.1	266.0	193.4	112.8	64.5	48.4	40.3	40.3	40.3
50°	7435.5	5968.5	386.9	241.8	157.2	76.6	48.4	36.3	32.2	32.2	32.2
52.5°	7838.5	5896.0	310.3	209.6	120.9	56.4	36.3	28.2	24.2	24.2	24.2
55°	8189.1	5771.1	270.0	181.4	88.7	40.3	28.2	24.2	20.2	20.2	20.2
57.5°	8547.8	5609.9	241.8	153.1	64.5	28.2	20.2	16.1	16.1	16.1	16.1
60°	8874.2	5335.8	209.6	120.9	44.3	20.2	16.1	12.1	12.1	12.1	12.1
62.5°	9192.6	5102.1	181.4	92.7	32.2	16.1	8.1	8.1	4.0	4.0	4.0
65°	9374.0	4787.7	145.1	60.5	20.2	12.1	4.0	4.0	0.0	0.0	0.0
67.5°	9317.5	4412.9	100.8	36.3	12.1	8.1	4.0	0.0	0.0	0.0	0.0
70°	8926.6	3909.2	60.5	20.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0
72.5°	7475.8	2893.6	36.3	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
75°	4993.3	1329.9	20.2	12.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	2285.1	399.0	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	459.4	104.8	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.7	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.0	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)