

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: P380944

Luminaire Tested: **PRV-XL-PA3A-750-U-T3**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3A-750-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

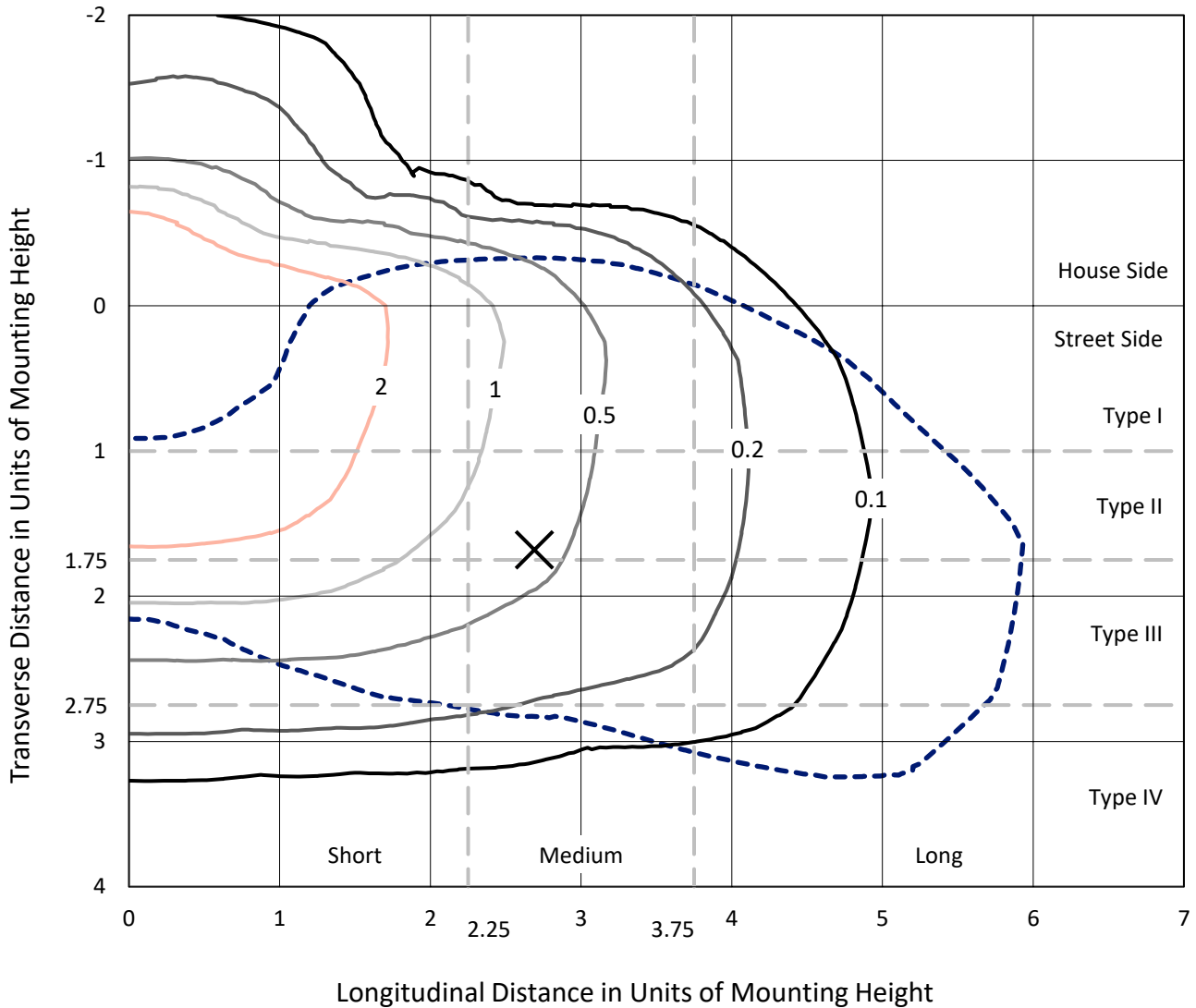
Lumens per Lamp: N/A  
Luminaire Lumens: 24621 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): 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

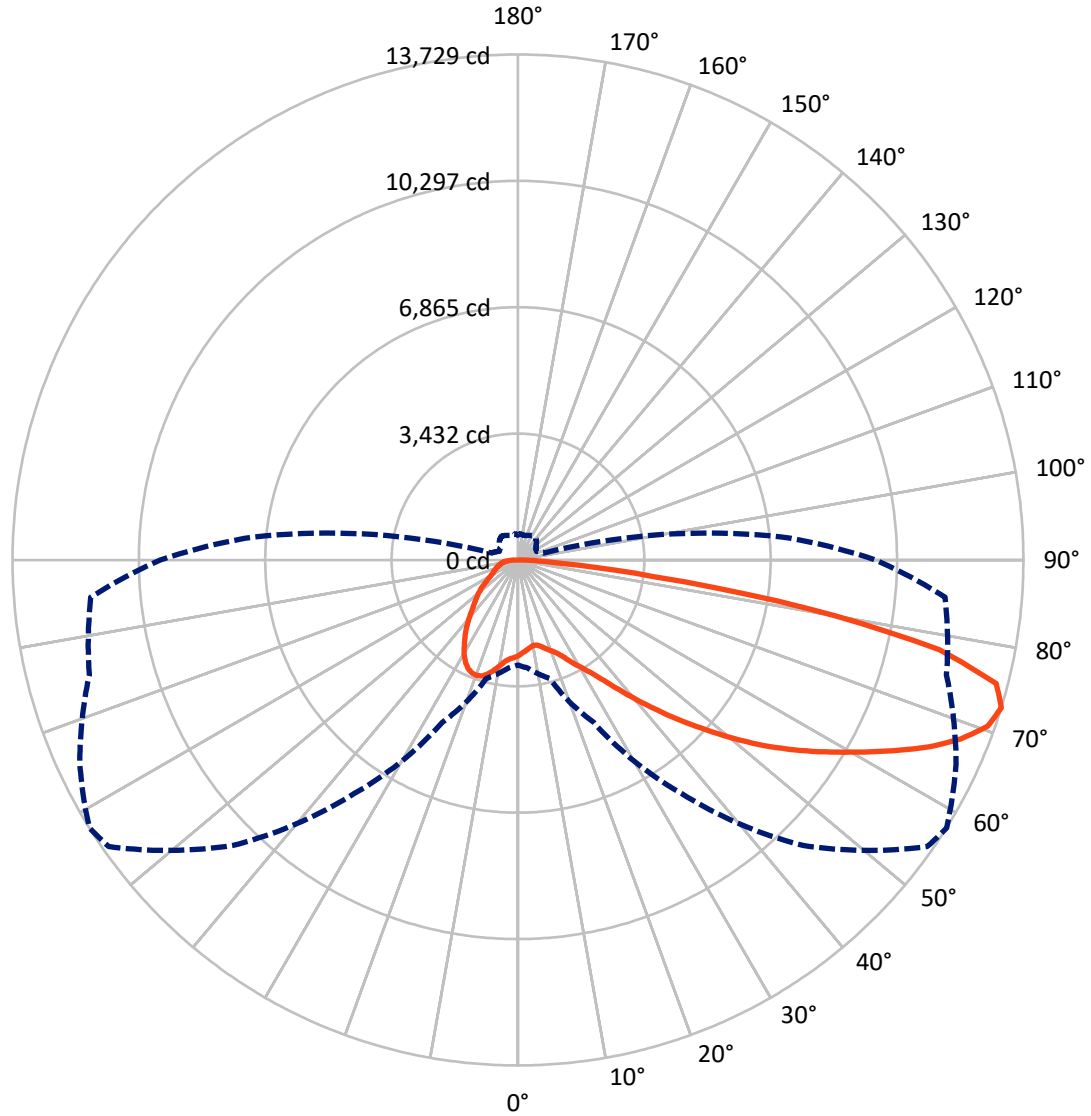
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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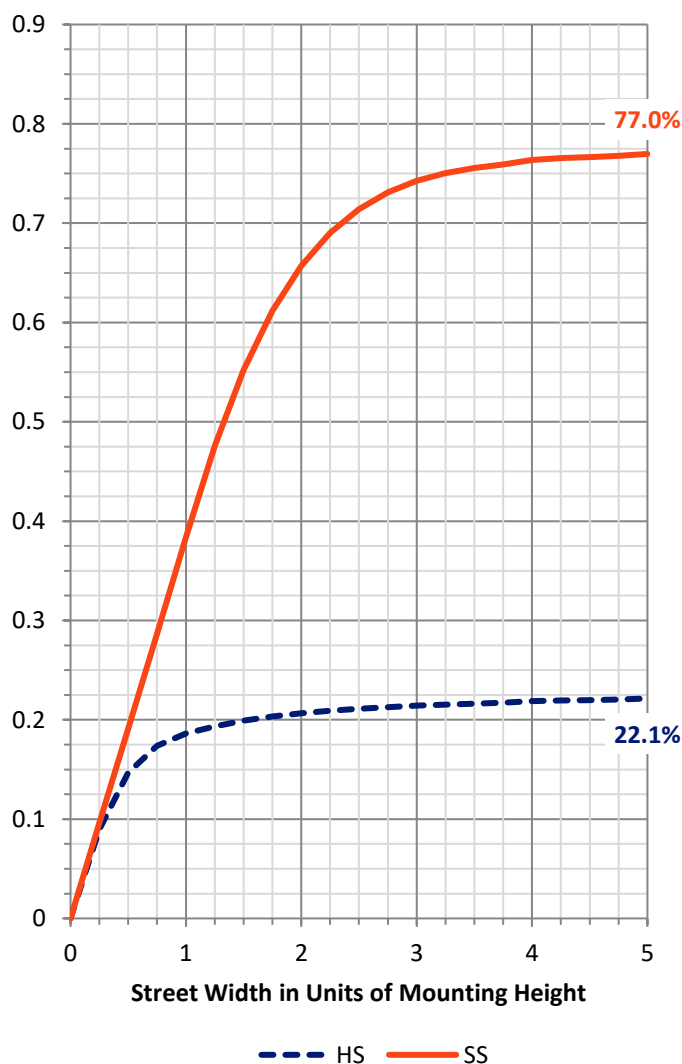
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5583.8	0.0	5583.8
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	19037.2	0.0	19037.2
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	24621.0	0.0	24621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	1.0
10°-20°	794.5	3.2
20°-30°	1423.2	5.8
30°-40°	2140.9	8.7
40°-50°	3466.8	14.1
50°-60°	5218.7	21.2
60°-70°	6141.8	24.9
70°-80°	4355.1	17.7
80°-90°	829.9	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°	24621.0	100.0
0°-180°	24621.0	100.0

**Coefficient of Utilization**



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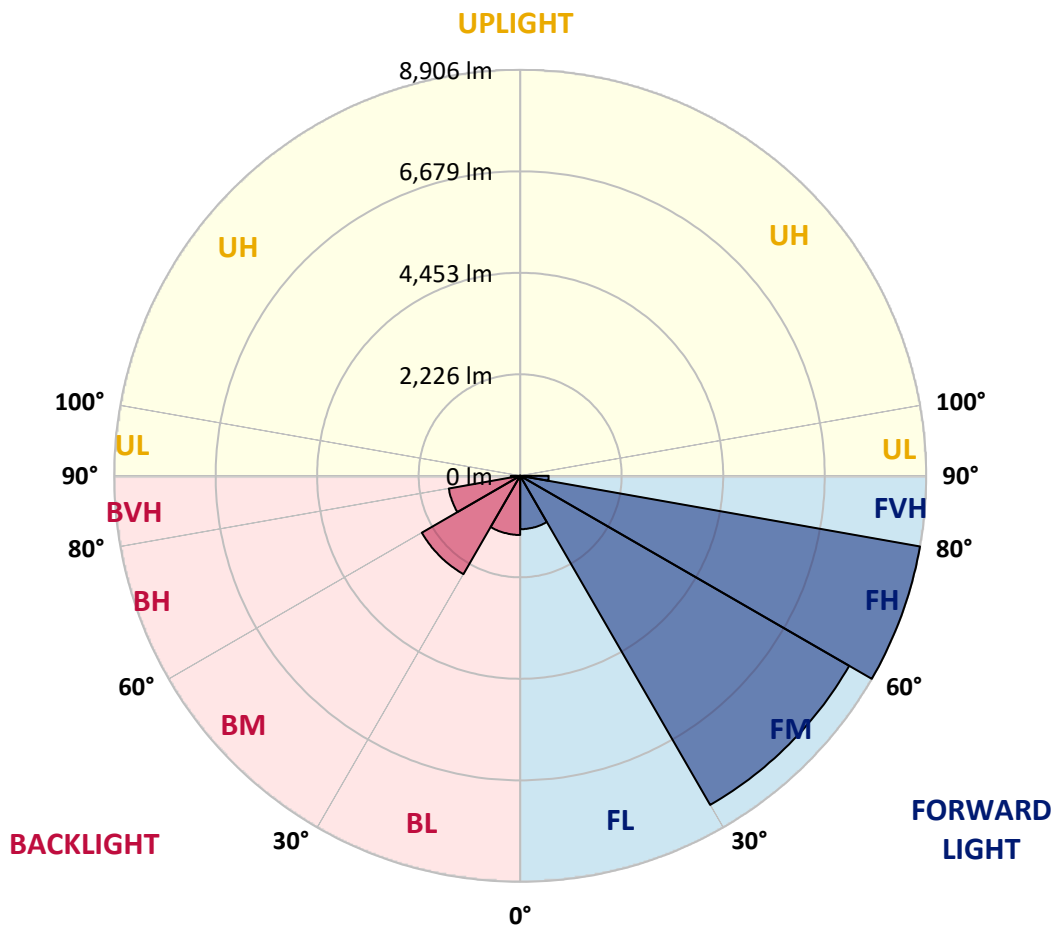
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.8	4.8			
FM (30°-60°)	8334.9	33.9			
FH (60°-80°)	8905.5	36.2			G4/12000
FVH (80°-90°)	626.0	2.5			G4/750
BL (0°-30°)	1297.0	5.3	B3/2500		
BM (30°-60°)	2491.4	10.1	B2/2500		
BH (60°-80°)	1591.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	203.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0
2.5°	2499.5	2486.5	2489.7	2489.7	2502.7	2509.2	2512.5	2522.2	2528.7	2545.0	2567.7
5°	2382.5	2372.7	2376.0	2379.2	2402.0	2424.7	2444.2	2457.2	2476.7	2502.7	2535.2
7.5°	2298.0	2291.5	2294.7	2301.2	2320.7	2346.7	2379.2	2398.7	2428.0	2476.7	2532.0
10°	2236.2	2236.2	2239.5	2252.5	2272.0	2304.5	2330.5	2353.2	2411.7	2499.5	2584.0
12.5°	2187.5	2187.5	2197.2	2223.2	2255.7	2288.2	2350.0	2376.0	2454.0	2574.2	2675.0
15°	2184.2	2187.5	2190.7	2213.5	2249.2	2320.7	2411.7	2450.7	2545.0	2688.0	2805.0
17.5°	2236.2	2239.5	2226.5	2233.0	2275.2	2376.0	2496.2	2541.7	2662.0	2818.0	2938.3
20°	2395.5	2395.5	2356.5	2320.7	2350.0	2460.5	2597.0	2642.5	2775.8	2948.0	3068.3
22.5°	2720.5	2736.8	2645.7	2567.7	2522.2	2584.0	2707.5	2756.3	2905.8	3091.0	3211.3
25°	3113.8	3130.0	3006.5	2896.0	2811.5	2801.8	2883.0	2935.0	3058.5	3250.3	3351.1
27.5°	3494.1	3464.8	3351.1	3247.1	3139.8	3052.0	3113.8	3159.3	3302.3	3448.6	3510.3
30°	3793.1	3770.4	3659.8	3585.1	3484.3	3370.6	3334.8	3383.6	3500.6	3637.1	3669.6
32.5°	4124.6	4108.4	3997.9	3900.4	3815.9	3708.6	3630.6	3653.3	3718.3	3815.9	3835.4
35°	4547.2	4582.9	4465.9	4267.6	4173.4	4069.4	4014.1	4020.6	4069.4	4131.1	4098.6
37.5°	4992.5	5034.7	5041.2	4729.2	4602.4	4508.2	4449.7	4472.4	4530.9	4573.2	4472.4
40°	5818.0	5775.8	5606.8	5376.0	5181.0	5090.0	5008.7	5005.5	5047.7	5122.5	4940.5
42.5°	6913.4	6874.4	6533.1	6234.1	5925.3	5821.3	5662.0	5593.8	5613.3	5707.5	5454.0
45°	7963.2	7947.0	7674.0	7326.2	6955.6	6754.1	6390.1	6224.3	6208.1	6282.8	5980.6
47.5°	8896.1	8824.6	8626.3	8356.5	8317.5	7791.0	7121.4	6897.1	6819.1	6861.4	6523.4
50°	9893.9	9650.1	9377.1	9211.4	9494.1	9003.3	7859.2	7625.2	7433.4	7462.7	7111.7
52.5°	10423.7	10014.2	9835.4	9884.2	10264.5	10075.9	8662.1	8376.0	8067.3	8109.5	7696.7
55°	9968.7	9965.4	10043.4	10345.7	10875.5	10657.7	9425.9	9104.1	8766.1	8775.8	8369.5
57.5°	9344.6	9471.4	9874.4	10540.7	11632.8	11268.8	10176.7	9835.4	9526.6	9477.9	9133.4
60°	8775.8	8915.6	9500.6	10508.2	11896.1	11827.9	10891.8	10592.7	10342.5	10199.5	9936.2
62.5°	7911.2	8015.2	8844.1	10300.2	11675.1	12230.9	11616.6	11411.8	11223.3	10927.5	10800.8
65°	6893.9	6929.6	7804.0	9614.4	11398.8	12386.9	12338.2	12247.1	12065.1	11629.6	11655.6
67.5°	5792.0	5863.5	6630.6	8519.0	10794.3	12315.4	12897.2	12972.0	12757.4	12104.1	12201.6
70°	4618.7	4706.4	5288.2	7004.4	9767.2	12006.6	13414.0	13534.3	13121.5	12260.1	12302.4
72.5°	2857.0	2941.5	3331.6	4865.7	7742.2	10969.8	13573.3	13729.3	13131.2	12052.1	11645.8
75°	988.1	997.8	1303.4	2333.7	4595.9	8281.8	13053.2	13420.5	12718.4	11294.8	10134.4
77.5°	451.8	468.0	578.6	962.1	2037.9	4469.2	10778.0	11697.8	11463.8	10111.7	7800.7
80°	312.0	318.5	399.8	575.3	1176.6	1573.1	6802.9	8002.2	8411.8	7830.0	4999.0
82.5°	234.0	240.5	308.8	390.0	848.3	763.8	2590.5	3718.3	4621.9	4537.4	2089.9
85°	224.3	221.0	240.5	260.0	565.6	455.0	838.6	1150.6	1803.9	1543.9	526.5
87.5°	97.5	107.3	247.0	146.3	295.8	211.3	364.0	425.8	549.3	477.8	188.5
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°	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0	2597.0
2.5°	2577.5	2584.0	2603.5	2632.7	2649.0	2681.5	2704.3	2717.3	2727.0	2730.3	2730.3
5°	2554.7	2567.7	2610.0	2658.7	2704.3	2772.5	2834.3	2870.0	2896.0	2905.8	2909.0
7.5°	2561.2	2593.7	2655.5	2727.0	2785.5	2873.3	2948.0	3019.5	3078.0	3100.8	3100.8
10°	2623.0	2668.5	2753.0	2847.3	2922.0	3013.0	3091.0	3152.8	3221.1	3260.1	3266.6
12.5°	2717.3	2772.5	2883.0	2987.0	3071.5	3143.0	3214.5	3260.1	3292.6	3321.8	3328.3
15°	2850.5	2918.8	3029.3	3136.5	3211.3	3256.8	3276.3	3276.3	3273.1	3276.3	3282.8
17.5°	2983.8	3048.8	3159.3	3266.6	3302.3	3276.3	3253.6	3247.1	3243.8	3237.3	3240.6
20°	3113.8	3175.5	3269.8	3351.1	3321.8	3230.8	3201.5	3198.3	3188.5	3182.0	3175.5
22.5°	3243.8	3289.3	3367.3	3396.6	3279.6	3149.5	3113.8	3094.3	3081.3	3065.0	3048.8
25°	3393.3	3406.3	3464.8	3419.3	3175.5	3000.0	2948.0	2918.8	2905.8	2889.5	2876.5
27.5°	3533.1	3533.1	3542.8	3383.6	3022.8	2801.8	2723.8	2671.7	2668.5	2665.2	2662.0
30°	3659.8	3643.6	3611.1	3276.3	2824.5	2558.0	2441.0	2389.0	2408.5	2424.7	2428.0
32.5°	3809.4	3776.9	3685.8	3130.0	2587.2	2285.0	2141.9	2119.2	2141.9	2161.5	2148.5
35°	4043.4	3984.9	3763.9	2961.0	2359.7	2034.7	1898.2	1865.7	1859.2	1855.9	1829.9
37.5°	4378.2	4277.4	3825.6	2779.0	2135.4	1813.7	1712.9	1644.7	1582.9	1517.9	1508.1
40°	4787.7	4615.4	3867.9	2571.0	1898.2	1628.4	1521.1	1433.4	1329.4	1215.6	1202.6
42.5°	5236.2	4979.5	3887.4	2340.2	1690.2	1475.6	1342.4	1231.9	1114.9	1027.1	1010.8
45°	5720.5	5372.8	3871.1	2119.2	1521.1	1345.6	1196.1	1075.9	981.6	919.8	906.8
47.5°	6191.8	5824.5	3825.6	1943.7	1391.1	1235.1	1082.4	971.8	900.3	832.1	815.8
50°	6796.4	6256.8	3770.4	1807.2	1248.1	1124.6	1010.8	893.8	812.6	780.1	773.6
52.5°	7465.9	6689.1	3705.3	1634.9	1108.4	1036.8	965.3	861.3	835.3	773.6	763.8
55°	8190.8	7202.7	3692.3	1417.1	984.8	975.1	919.8	890.6	897.1	773.6	757.3
57.5°	8954.6	7752.0	3721.6	1199.4	884.1	919.8	939.3	916.6	906.8	789.8	757.3
60°	9750.9	8281.8	3633.8	997.8	806.1	874.3	962.1	903.6	832.1	783.3	760.6
62.5°	10524.5	8727.1	3253.6	854.8	747.6	861.3	949.1	854.8	773.6	773.6	763.8
65°	11086.8	8925.3	2545.0	750.8	708.6	845.1	926.3	822.3	757.3	780.1	767.1
67.5°	11151.8	8720.6	1709.7	669.6	676.1	815.8	874.3	793.1	741.1	799.6	780.1
70°	10752.0	8187.5	1046.6	607.8	633.8	763.8	828.8	763.8	718.3	783.3	754.1
72.5°	9715.2	7192.9	737.8	555.8	588.3	715.1	786.6	737.8	685.8	708.6	679.3
75°	7969.7	5574.3	585.1	507.0	542.8	669.6	750.8	698.8	646.8	637.1	617.6
77.5°	5645.8	3572.1	471.3	468.0	494.0	614.3	702.1	653.3	601.3	581.8	568.8
80°	3247.1	1751.9	406.3	422.5	448.5	559.1	643.6	601.3	552.6	523.3	503.8
82.5°	1241.6	611.1	357.5	367.3	396.5	500.5	585.1	549.3	500.5	526.5	442.0
85°	403.0	334.8	292.5	302.3	331.5	416.0	516.8	487.5	432.3	383.5	354.3
87.5°	178.8	182.0	156.0	172.3	208.0	276.3	377.0	357.5	315.3	263.3	253.5
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)