

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: P381128

Luminaire Tested: **PRV-XL-PA3A-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24692 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

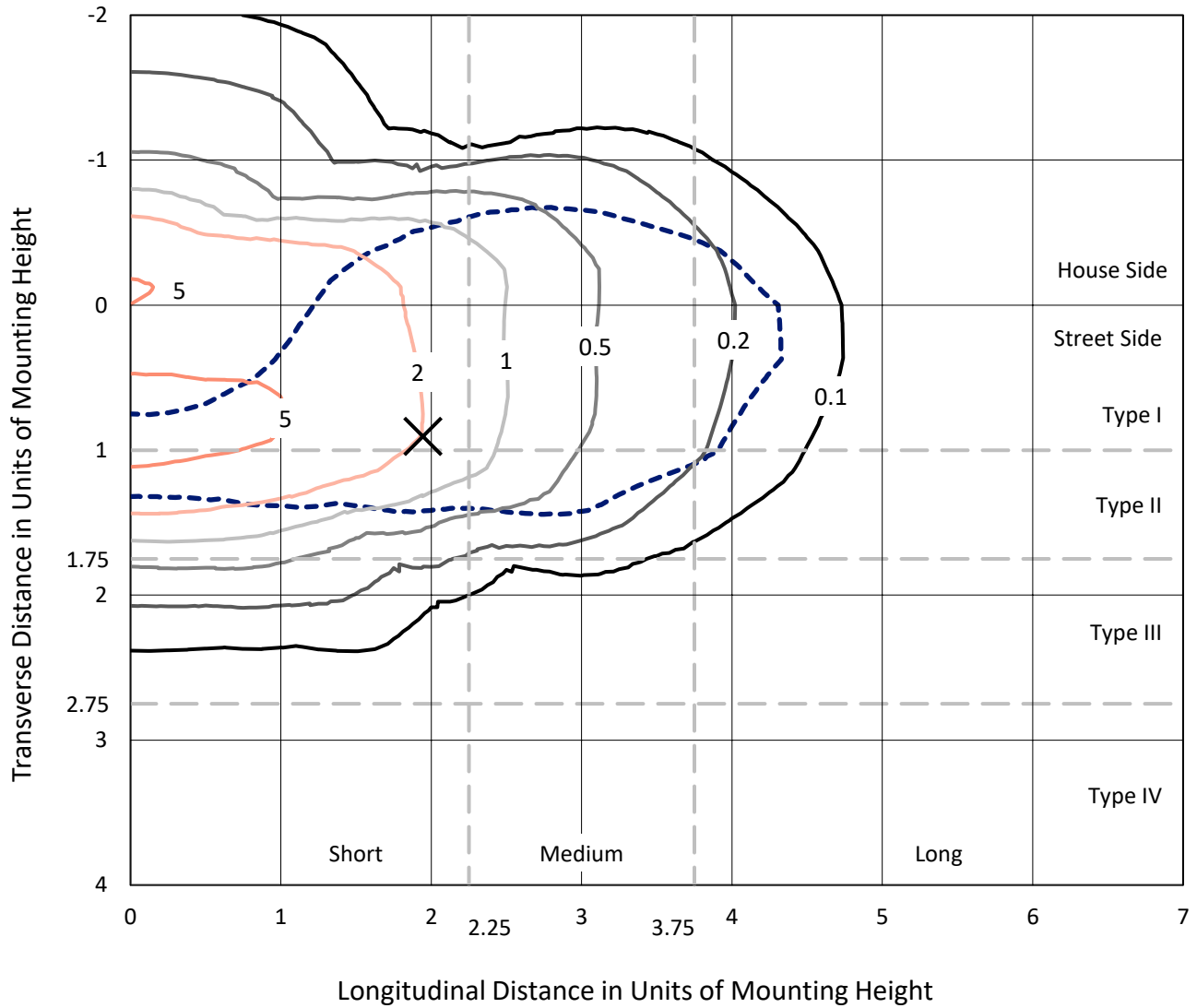
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381128
 CATALOG NUMBER: PRV-XL-PA3A-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

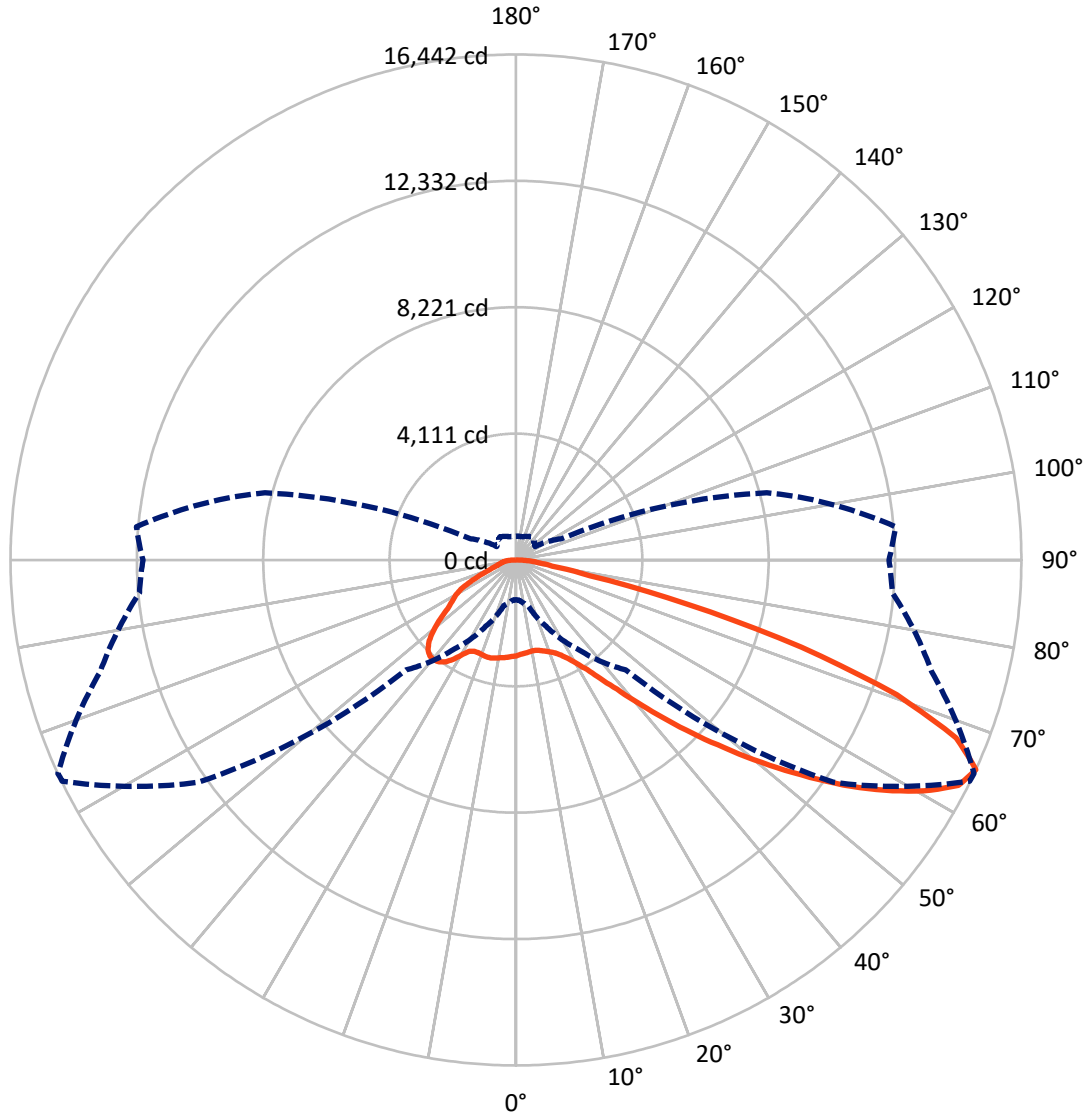
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P381128
CATALOG NUMBER: PRV-XL-PA3A-740-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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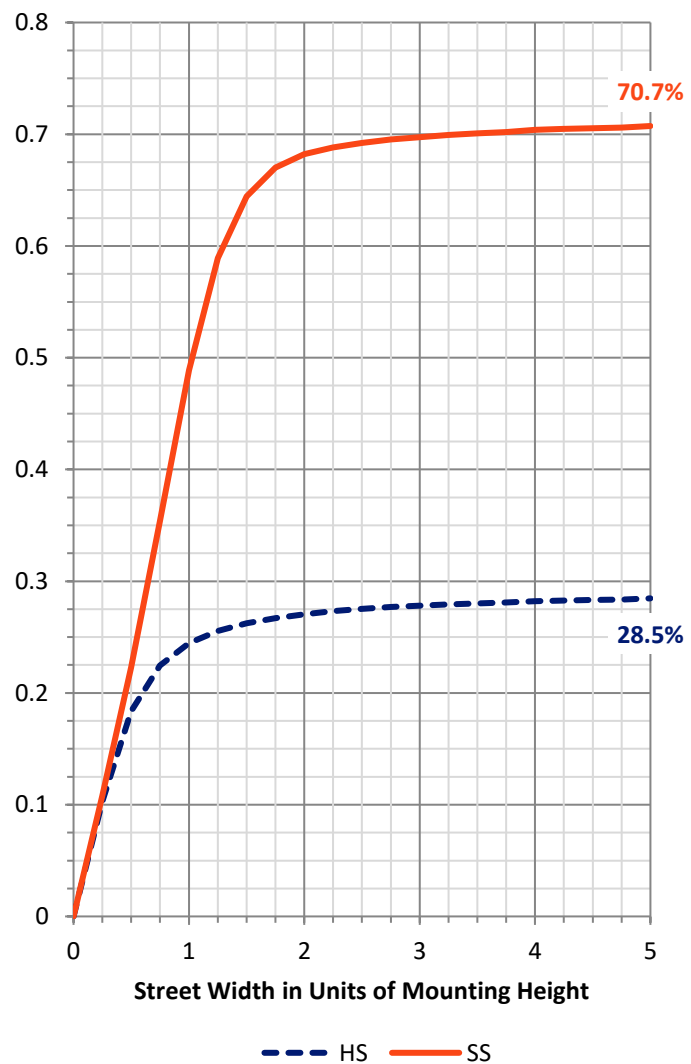
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7138.8	0.0	7138.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17553.2	0.0	17553.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	24692.0	0.0	24692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.2
10°-20°	887.5	3.6
20°-30°	1576.4	6.4
30°-40°	2666.9	10.8
40°-50°	4642.6	18.8
50°-60°	5999.7	24.3
60°-70°	5250.1	21.3
70°-80°	2855.7	11.6
80°-90°	516.0	2.1
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°	24692.0	100.0
0°-180°	24692.0	100.0



REPORT NUMBER: P381128

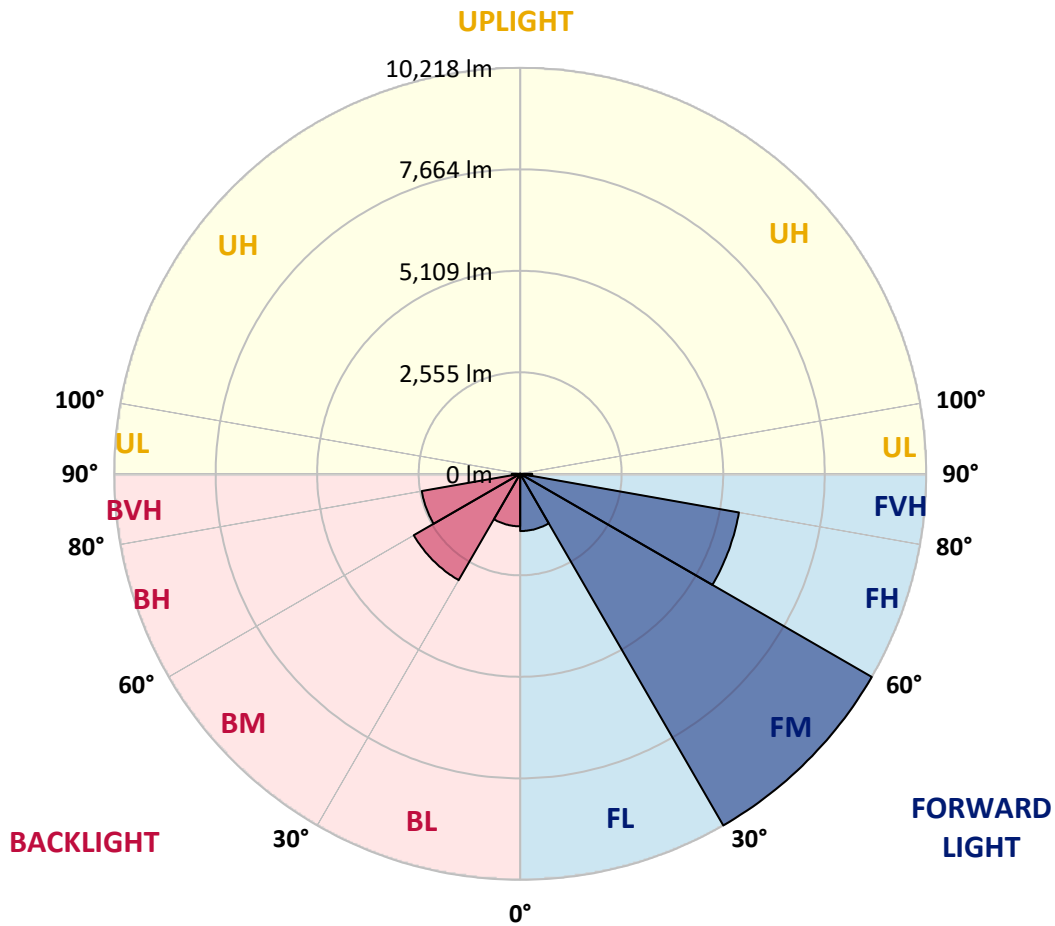
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.7	5.8			
FM (30°-60°)	10218.2	41.4			
FH (60°-80°)	5590.6	22.6			G3/7500
FVH (80°-90°)	303.6	1.2			G3/500
BL (0°-30°)	1320.4	5.3	B3/2500		
BM (30°-60°)	3090.9	12.5	B3/5000		
BH (60°-80°)	2515.1	10.2	B4/5000		G4/5000
BVH (80°-90°)	212.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3064.8	3061.6	3055.1	3061.6	3064.8	3071.3	3068.1	3074.6	3071.3	3081.1	3097.3
5°	2986.8	2980.3	2977.1	2993.3	3003.1	3019.3	3025.8	3048.6	3045.3	3061.6	3087.6
7.5°	2899.1	2899.1	2895.8	2915.3	2928.3	2957.6	2980.3	3019.3	3022.6	3051.8	3081.1
10°	2830.8	2834.1	2830.8	2847.1	2866.6	2902.3	2941.3	2996.6	2999.8	3042.1	3071.3
12.5°	2804.8	2804.8	2804.8	2827.6	2853.6	2902.3	2947.8	3006.3	3012.8	3058.3	3084.3
15°	2840.6	2843.8	2837.3	2860.1	2889.3	2947.8	2990.1	3051.8	3058.3	3100.6	3116.8
17.5°	2967.3	2980.3	2964.1	2977.1	2970.6	3016.1	3055.1	3116.8	3120.1	3155.8	3162.3
20°	3217.6	3230.6	3204.6	3188.3	3129.8	3126.6	3142.8	3191.6	3191.6	3214.3	3198.1
22.5°	3604.3	3617.3	3571.8	3510.1	3370.3	3302.1	3266.3	3289.1	3285.8	3295.6	3253.3
25°	4117.8	4114.6	4059.3	3945.6	3721.3	3555.6	3467.8	3432.1	3432.1	3412.6	3360.6
27.5°	4754.9	4706.1	4608.6	4472.1	4160.1	3929.3	3740.8	3649.8	3633.6	3575.1	3477.6
30°	5434.1	5398.4	5258.6	5060.4	4699.6	4403.9	4091.8	3909.8	3900.1	3773.3	3627.1
32.5°	6233.6	6175.1	6019.1	5781.9	5349.6	4933.6	4543.6	4267.3	4251.1	4049.6	3848.1
35°	7260.7	7211.9	6909.7	6672.4	6116.6	5570.6	5109.1	4741.9	4728.9	4481.9	4225.1
37.5°	8492.4	8365.7	8073.2	7627.9	7042.9	6396.1	5811.1	5349.6	5333.4	5060.4	4735.4
40°	9591.0	9477.2	9217.2	8807.7	8180.4	7462.2	6669.2	6110.1	6093.9	5762.4	5352.9
42.5°	10403.5	10325.5	10156.5	9919.2	9470.7	9035.2	7764.4	7029.9	7000.7	6571.7	6061.4
45°	10874.8	10813.0	10715.5	10774.0	10767.5	10686.2	9071.0	8125.2	8030.9	7475.2	6851.2
47.5°	10761.0	10705.7	10744.7	11199.8	11827.0	12298.3	10592.0	9246.5	9119.7	8394.9	7692.9
50°	9938.7	9961.5	10166.2	11037.3	12444.5	13491.1	12278.8	10523.7	10354.7	9321.2	8492.4
52.5°	8440.4	8495.7	8993.0	10211.7	12376.3	14264.6	13803.1	11843.3	11619.0	10224.7	9220.5
55°	6704.9	6844.7	7488.2	8768.7	11485.8	14319.8	14953.6	13169.3	12922.3	11073.0	9854.2
57.5°	4959.6	5167.6	5911.9	7088.4	9779.5	13445.6	15528.9	14436.8	14137.8	11914.8	10523.7
60°	3146.1	3272.8	4130.8	5518.6	7484.9	11307.0	15454.1	15515.9	15255.9	12753.3	11222.5
62.5°	2008.5	2070.3	2502.6	3935.8	5232.6	8372.2	14638.3	16331.6	16156.1	13517.1	11885.5
65°	1290.3	1316.3	1537.3	2421.3	3562.1	5053.9	12607.0	16419.4	16442.1	13994.8	12295.0
67.5°	1049.8	1062.8	1144.0	1495.0	2518.8	2791.8	8781.7	15171.4	15447.6	13871.3	12155.3
70°	955.5	971.8	1056.3	1192.8	1950.0	1927.3	4251.1	12694.8	13146.6	13159.6	11534.5
72.5°	806.0	828.8	942.5	1127.8	1508.0	1521.0	1800.5	9041.7	9708.0	11762.0	10601.7
75°	672.8	685.8	783.3	994.5	1277.3	1215.5	1264.3	4793.9	5755.9	9431.7	9610.5
77.5°	546.0	559.0	630.5	793.0	1134.3	945.8	994.5	1985.8	2453.8	6402.6	7855.4
80°	390.0	403.0	484.3	617.5	858.0	851.5	737.8	1095.3	1189.5	3461.3	5102.6
82.5°	279.5	289.3	367.3	442.0	594.8	854.8	555.8	744.3	780.0	1534.0	2057.3
85°	188.5	188.5	253.5	292.5	383.5	539.5	448.5	503.8	526.5	728.0	555.8
87.5°	81.3	81.3	136.5	149.5	201.5	250.3	334.8	253.5	260.0	393.3	227.5
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°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3107.1	3110.3	3116.8	3136.3	3149.3	3168.8	3178.6	3191.6	3191.6	3185.1	3188.3
5°	3100.6	3110.3	3133.1	3168.8	3191.6	3227.3	3253.3	3272.8	3279.3	3272.8	3276.1
7.5°	3097.3	3113.6	3152.6	3204.6	3237.1	3282.6	3318.3	3341.1	3357.3	3350.8	3354.1
10°	3087.6	3113.6	3162.3	3227.3	3276.1	3321.6	3354.1	3363.8	3373.6	3367.1	3363.8
12.5°	3100.6	3129.8	3181.8	3259.8	3315.1	3350.8	3360.6	3344.3	3321.6	3308.6	3305.3
15°	3126.6	3155.8	3207.8	3289.1	3337.8	3350.8	3328.1	3276.1	3224.1	3194.8	3191.6
17.5°	3162.3	3181.8	3224.1	3295.6	3334.6	3318.3	3272.8	3211.1	3172.1	3149.3	3152.6
20°	3185.1	3185.1	3217.6	3272.8	3305.3	3292.3	3237.1	3168.8	3107.1	3077.8	3068.1
22.5°	3217.6	3201.3	3204.6	3253.3	3298.8	3279.3	3162.3	3042.1	2954.3	2921.8	2918.6
25°	3305.3	3259.8	3230.6	3259.8	3367.1	3207.8	2973.8	2834.1	2752.8	2723.6	2726.8
27.5°	3412.6	3350.8	3289.1	3337.8	3422.3	3045.3	2733.3	2574.1	2525.3	2502.6	2512.3
30°	3519.8	3438.6	3357.3	3532.8	3383.3	2791.8	2424.6	2268.6	2226.3	2210.1	2223.1
32.5°	3718.1	3584.8	3487.3	3792.8	3263.1	2502.6	2089.8	1946.8	1907.8	1888.3	1881.8
35°	4049.6	3880.6	3783.1	4020.3	3094.1	2180.8	1784.3	1683.5	1641.3	1599.0	1592.5
37.5°	4527.4	4322.6	4234.8	4150.3	2856.8	1862.3	1550.3	1482.0	1420.3	1355.3	1352.0
40°	5099.4	4832.9	4767.9	4208.8	2528.6	1563.3	1387.8	1322.8	1244.8	1183.0	1186.3
42.5°	5759.1	5417.9	5278.1	4192.6	2122.3	1404.0	1270.8	1199.3	1131.0	1075.8	1072.5
45°	6464.4	6077.6	5755.9	4078.8	1719.3	1293.5	1199.3	1114.8	1046.5	984.8	978.3
47.5°	7244.4	6812.2	6197.9	3857.8	1420.3	1215.5	1157.0	1036.8	975.0	936.0	936.0
50°	8030.9	7514.2	6604.2	3523.1	1244.8	1157.0	1095.3	994.5	945.8	913.3	913.3
52.5°	8703.7	8245.4	6938.9	3123.3	1134.3	1108.3	1053.0	975.0	923.0	893.8	890.5
55°	9357.0	8924.7	7237.9	2726.8	1043.3	1043.3	1043.3	958.8	900.3	874.3	871.0
57.5°	10007.0	9639.7	7549.9	2466.8	962.0	988.0	1023.8	939.3	880.8	858.0	854.8
60°	10741.5	10497.7	7910.7	2284.8	890.5	929.5	997.8	916.5	848.3	828.8	825.5
62.5°	11521.5	11521.5	8238.9	2028.0	825.5	880.8	958.8	887.3	819.0	802.8	799.5
65°	12132.5	12395.8	8450.2	1644.5	760.5	832.0	913.3	848.3	780.0	776.8	770.3
67.5°	12204.0	12616.8	8316.9	1241.5	702.0	780.0	867.8	806.0	741.0	741.0	731.3
70°	11690.5	12109.8	7900.9	929.5	659.8	728.0	809.3	754.0	692.3	698.8	682.5
72.5°	10832.5	10936.5	6867.4	734.5	611.0	672.8	737.8	695.5	640.3	640.3	617.5
75°	9701.5	9123.0	4988.9	614.3	552.5	607.8	666.3	630.5	581.8	565.5	552.5
77.5°	7722.2	6610.7	2899.1	529.8	503.8	546.0	585.0	559.0	516.8	481.0	481.0
80°	4706.1	3874.1	1280.5	458.3	445.3	477.8	503.8	474.5	438.8	403.0	393.3
82.5°	1790.8	1495.0	620.8	393.3	390.0	409.5	429.0	399.8	373.8	357.5	308.8
85°	490.8	451.8	425.8	328.3	321.8	318.5	341.3	328.3	292.5	240.5	214.5
87.5°	185.3	211.3	230.8	201.5	214.5	198.3	227.5	208.0	185.3	120.3	107.3
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)