

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: P380929

Luminaire Tested: **PRV-XL-PA3B-730-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380929
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-PA3B-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27802 lumens
Efficiency: N/A
Efficacy: 118.8 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

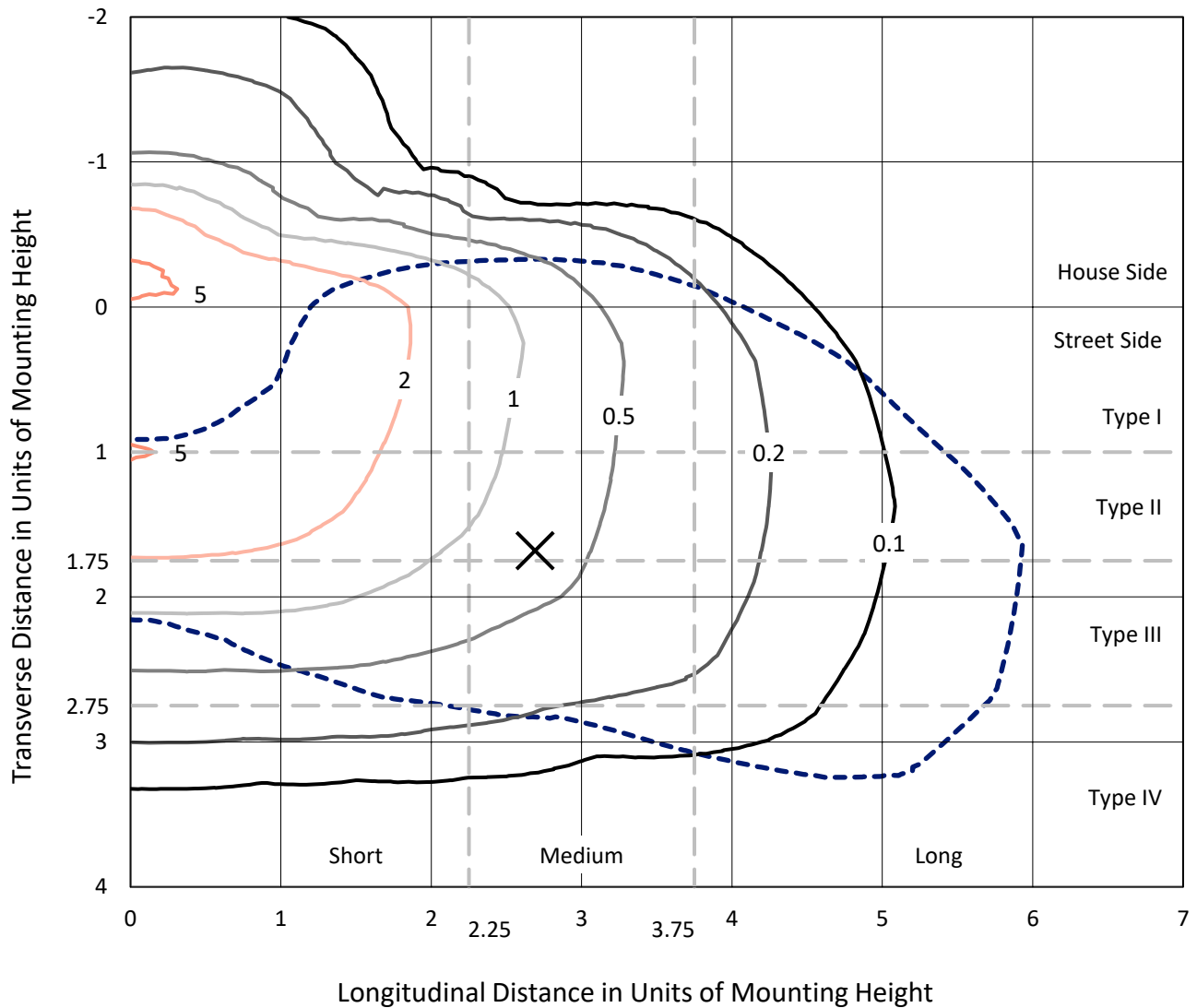
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

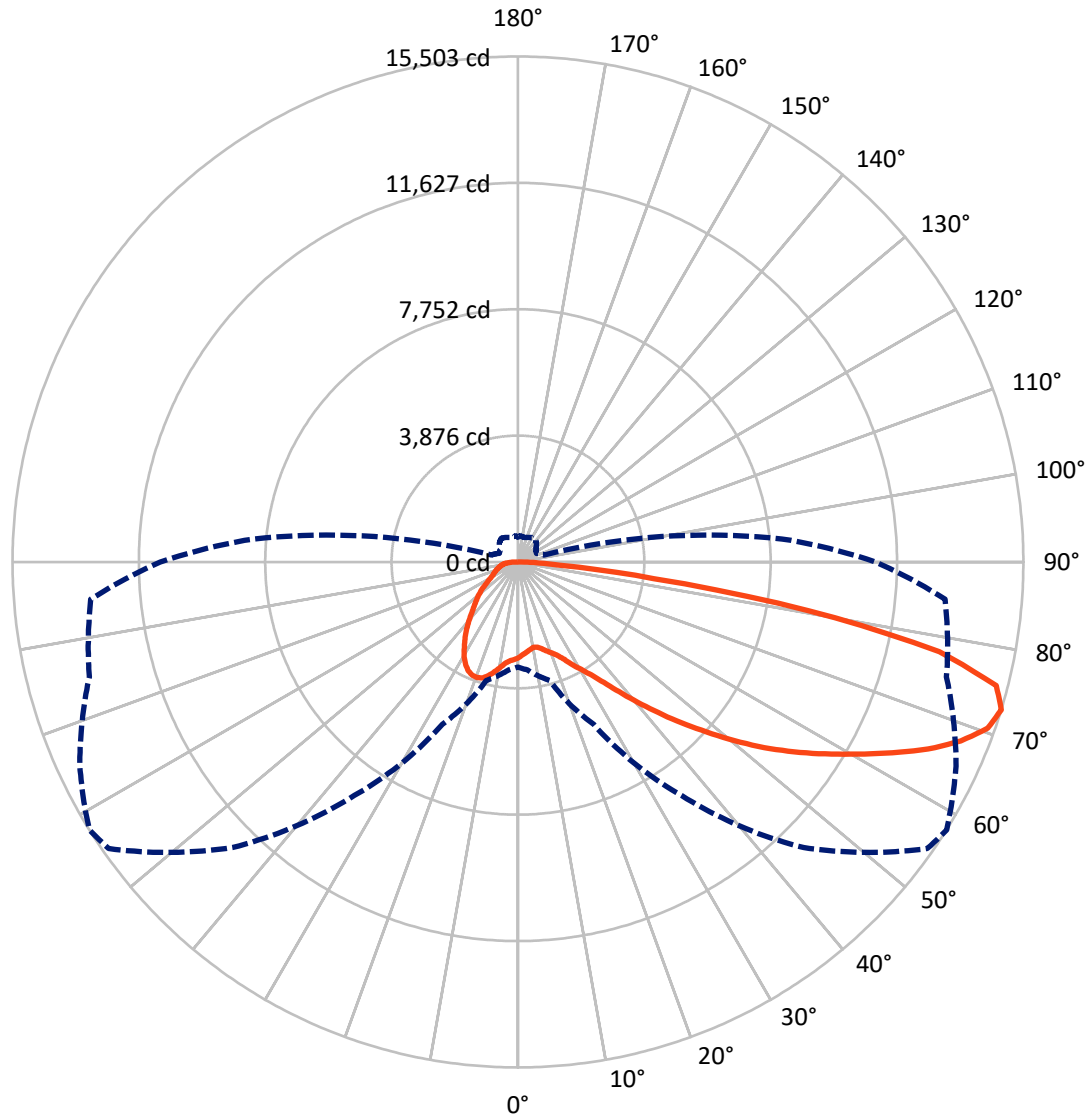
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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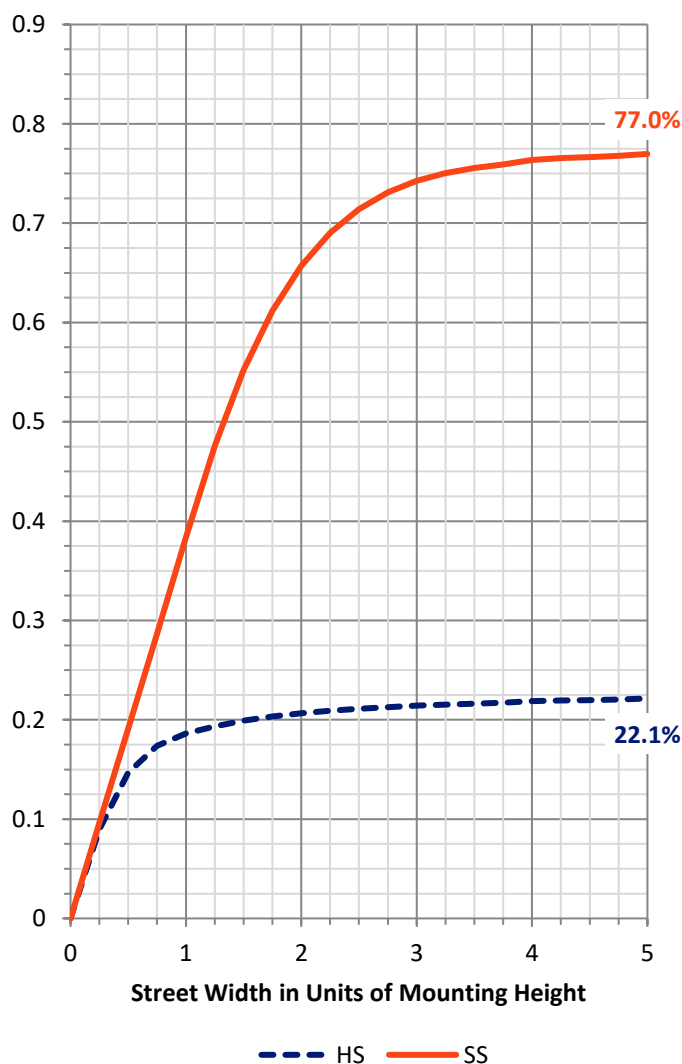
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6305.2	0.0	6305.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21496.8	0.0	21496.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	27802.0	0.0	27802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.5	1.0
10°-20°	897.1	3.2
20°-30°	1607.1	5.8
30°-40°	2417.5	8.7
40°-50°	3914.7	14.1
50°-60°	5892.9	21.2
60°-70°	6935.3	24.9
70°-80°	4917.8	17.7
80°-90°	937.1	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°	27802.0	100.0
0°-180°	27802.0	100.0

Coefficient of Utilization



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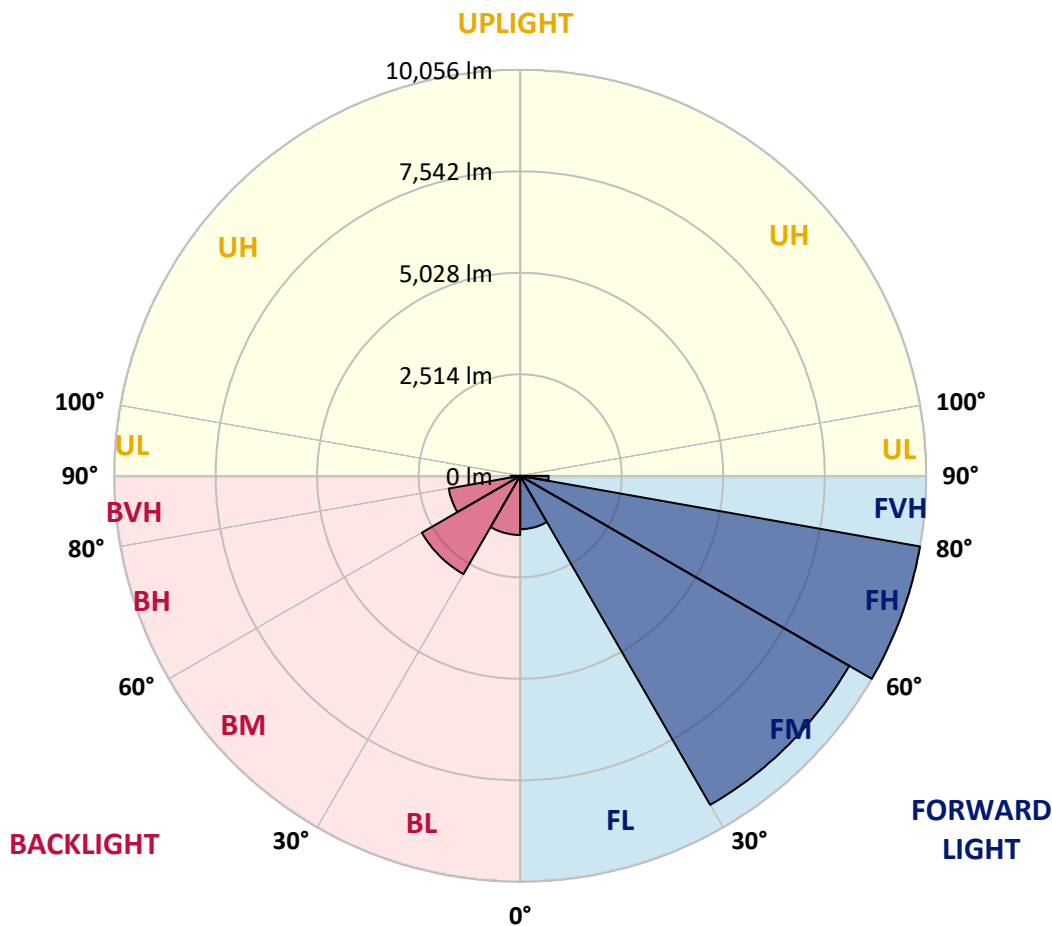
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.1	4.8			
FM (30°-60°)	9411.8	33.9			
FH (60°-80°)	10056.1	36.2			G4/12000
FVH (80°-90°)	706.8	2.5			G4/750
BL (0°-30°)	1464.6	5.3	B3/2500		
BM (30°-60°)	2813.3	10.1	B3/5000		
BH (60°-80°)	1797.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	230.2	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5
2.5°	2822.4	2807.7	2811.4	2811.4	2826.1	2833.4	2837.1	2848.1	2855.4	2873.8	2899.5
5°	2690.3	2679.3	2682.9	2686.6	2712.3	2738.0	2760.0	2774.7	2796.7	2826.1	2862.8
7.5°	2594.9	2587.5	2591.2	2598.5	2620.5	2649.9	2686.6	2708.6	2741.7	2796.7	2859.1
10°	2525.1	2525.1	2528.8	2543.5	2565.5	2602.2	2631.6	2657.3	2723.3	2822.4	2917.8
12.5°	2470.1	2470.1	2481.1	2510.4	2547.1	2583.8	2653.6	2682.9	2771.0	2906.8	3020.6
15°	2466.4	2470.1	2473.7	2499.4	2539.8	2620.5	2723.3	2767.4	2873.8	3035.3	3167.4
17.5°	2525.1	2528.8	2514.1	2521.5	2569.2	2682.9	2818.7	2870.1	3005.9	3182.1	3317.9
20°	2705.0	2705.0	2660.9	2620.5	2653.6	2778.4	2932.5	2983.9	3134.4	3328.9	3464.7
22.5°	3072.0	3090.3	2987.6	2899.5	2848.1	2917.8	3057.3	3112.4	3281.2	3490.4	3626.2
25°	3516.1	3534.4	3395.0	3270.2	3174.8	3163.7	3255.5	3314.2	3453.7	3670.2	3784.0
27.5°	3945.5	3912.5	3784.0	3666.6	3545.4	3446.4	3516.1	3567.5	3729.0	3894.1	3963.9
30°	4283.2	4257.5	4132.7	4048.3	3934.5	3806.0	3765.7	3820.7	3952.8	4107.0	4143.7
32.5°	4657.5	4639.2	4514.4	4404.3	4308.9	4187.7	4099.7	4125.3	4198.8	4308.9	4330.9
35°	5134.7	5175.0	5042.9	4819.0	4712.6	4595.1	4532.7	4540.1	4595.1	4664.9	4628.2
37.5°	5637.5	5685.2	5692.5	5340.2	5197.1	5090.6	5024.6	5050.2	5116.3	5164.0	5050.2
40°	6569.7	6522.0	6331.2	6070.6	5850.4	5747.6	5655.8	5652.2	5699.9	5784.3	5578.8
42.5°	7806.6	7762.6	7377.2	7039.5	6690.8	6573.4	6393.6	6316.5	6338.5	6444.9	6158.7
45°	8992.1	8973.7	8665.4	8272.7	7854.3	7626.8	7215.7	7028.5	7010.2	7094.6	6753.2
47.5°	10045.4	9964.7	9740.8	9436.2	9392.1	8797.6	8041.5	7788.2	7700.2	7747.9	7366.2
50°	11172.2	10896.9	10588.6	10401.5	10720.8	10166.6	8874.6	8610.4	8393.8	8426.9	8030.5
52.5°	11770.5	11308.0	11106.1	11161.2	11590.6	11377.7	9781.2	9458.2	9109.5	9157.2	8691.1
55°	11256.6	11252.9	11341.0	11682.4	12280.6	12034.7	10643.7	10280.3	9898.6	9909.6	9450.9
57.5°	10551.9	10695.1	11150.2	11902.6	13135.8	12724.7	11491.5	11106.1	10757.5	10702.4	10313.4
60°	9909.6	10067.5	10728.1	11865.9	13433.1	13356.0	12299.0	11961.3	11678.7	11517.2	11219.9
62.5°	8933.4	9050.8	9986.7	11631.0	13183.5	13811.1	13117.4	12886.2	12673.3	12339.3	12196.2
65°	7784.6	7824.9	8812.2	10856.6	12871.5	13987.3	13932.2	13829.5	13623.9	13132.1	13161.5
67.5°	6540.4	6621.1	7487.3	9619.7	12188.9	13906.5	14563.5	14647.9	14405.7	13668.0	13778.1
70°	5215.4	5314.5	5971.5	7909.4	11029.1	13557.9	15147.1	15282.9	14816.7	13844.1	13891.8
72.5°	3226.1	3321.6	3762.0	5494.3	8742.5	12387.1	15326.9	15503.1	14827.8	13609.2	13150.5
75°	1115.8	1126.8	1471.8	2635.2	5189.7	9351.8	14739.7	15154.4	14361.6	12754.1	11443.8
77.5°	510.2	528.5	653.3	1086.4	2301.2	5046.6	12170.5	13209.2	12944.9	11418.1	8808.6
80°	352.3	359.7	451.4	649.6	1328.6	1776.4	7681.8	9036.1	9498.6	8841.6	5644.8
82.5°	264.3	271.6	348.7	440.4	957.9	862.5	2925.2	4198.8	5219.1	5123.7	2360.0
85°	253.2	249.6	271.6	293.6	638.6	513.8	946.9	1299.3	2037.0	1743.4	594.6
87.5°	110.1	121.1	278.9	165.2	334.0	238.6	411.1	480.8	620.3	539.5	212.9
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°	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5	2932.5
2.5°	2910.5	2917.8	2939.9	2972.9	2991.2	3027.9	3053.6	3068.3	3079.3	3083.0	3083.0
5°	2884.8	2899.5	2947.2	3002.3	3053.6	3130.7	3200.4	3240.8	3270.2	3281.2	3284.9
7.5°	2892.1	2928.8	2998.6	3079.3	3145.4	3244.5	3328.9	3409.7	3475.7	3501.4	3501.4
10°	2961.9	3013.3	3108.7	3215.1	3299.5	3402.3	3490.4	3560.1	3637.2	3681.2	3688.6
12.5°	3068.3	3130.7	3255.5	3372.9	3468.4	3549.1	3629.9	3681.2	3718.0	3751.0	3758.3
15°	3218.8	3295.9	3420.7	3541.8	3626.2	3677.6	3699.6	3699.6	3695.9	3699.6	3706.9
17.5°	3369.3	3442.7	3567.5	3688.6	3729.0	3699.6	3673.9	3666.6	3662.9	3655.6	3659.2
20°	3516.1	3585.8	3692.3	3784.0	3751.0	3648.2	3615.2	3611.5	3600.5	3593.2	3585.8
22.5°	3662.9	3714.3	3802.4	3835.4	3703.3	3556.5	3516.1	3494.1	3479.4	3461.0	3442.7
25°	3831.7	3846.4	3912.5	3861.1	3585.8	3387.6	3328.9	3295.9	3281.2	3262.8	3248.2
27.5°	3989.5	3989.5	4000.6	3820.7	3413.3	3163.7	3075.7	3016.9	3013.3	3009.6	3005.9
30°	4132.7	4114.3	4077.6	3699.6	3189.4	2888.5	2756.3	2697.6	2719.6	2738.0	2741.7
32.5°	4301.5	4264.8	4162.0	3534.4	2921.5	2580.2	2418.7	2393.0	2418.7	2440.7	2426.0
35°	4565.8	4499.7	4250.1	3343.6	2664.6	2297.6	2143.4	2106.7	2099.4	2095.7	2066.3
37.5°	4943.8	4830.0	4319.9	3138.1	2411.3	2048.0	1934.2	1857.1	1787.4	1714.0	1703.0
40°	5406.3	5211.7	4367.6	2903.2	2143.4	1838.8	1717.7	1618.6	1501.1	1372.7	1358.0
42.5°	5912.8	5622.8	4389.6	2642.6	1908.5	1666.3	1515.8	1391.0	1258.9	1159.8	1141.4
45°	6459.6	6066.9	4371.3	2393.0	1717.7	1519.5	1350.6	1214.8	1108.4	1038.7	1024.0
47.5°	6991.8	6577.1	4319.9	2194.8	1570.9	1394.7	1222.2	1097.4	1016.7	939.6	921.2
50°	7674.5	7065.2	4257.5	2040.7	1409.4	1269.9	1141.4	1009.3	917.6	880.9	873.5
52.5°	8430.5	7553.3	4184.1	1846.1	1251.6	1170.8	1090.1	972.6	943.3	873.5	862.5
55°	9249.0	8133.2	4169.4	1600.2	1112.1	1101.1	1038.7	1005.6	1013.0	873.5	855.2
57.5°	10111.5	8753.5	4202.4	1354.3	998.3	1038.7	1060.7	1035.0	1024.0	891.9	855.2
60°	11010.7	9351.8	4103.3	1126.8	910.2	987.3	1086.4	1020.3	939.6	884.5	858.8
62.5°	11884.2	9854.6	3673.9	965.3	844.2	972.6	1071.7	965.3	873.5	873.5	862.5
65°	12519.2	10078.5	2873.8	847.8	800.1	954.3	1046.0	928.6	855.2	880.9	866.2
67.5°	12592.6	9847.2	1930.5	756.1	763.4	921.2	987.3	895.5	836.8	902.9	880.9
70°	12141.1	9245.3	1181.8	686.3	715.7	862.5	935.9	862.5	811.1	884.5	851.5
72.5°	10970.3	8122.2	833.1	627.6	664.3	807.5	888.2	833.1	774.4	800.1	767.1
75°	8999.4	6294.5	660.6	572.6	612.9	756.1	847.8	789.1	730.4	719.4	697.3
77.5°	6375.2	4033.6	532.2	528.5	557.9	693.7	792.8	737.7	679.0	657.0	642.3
80°	3666.6	1978.3	458.8	477.1	506.5	631.3	726.7	679.0	623.9	590.9	568.9
82.5°	1402.0	690.0	403.7	414.7	447.8	565.2	660.6	620.3	565.2	594.6	499.2
85°	455.1	378.0	330.3	341.3	374.4	469.8	583.6	550.5	488.1	433.1	400.1
87.5°	201.9	205.5	176.2	194.5	234.9	312.0	425.7	403.7	356.0	297.3	286.3
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)