

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: P381009

Luminaire Tested: **PRV-XL-PA3B-750-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3B-750-U-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30161 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

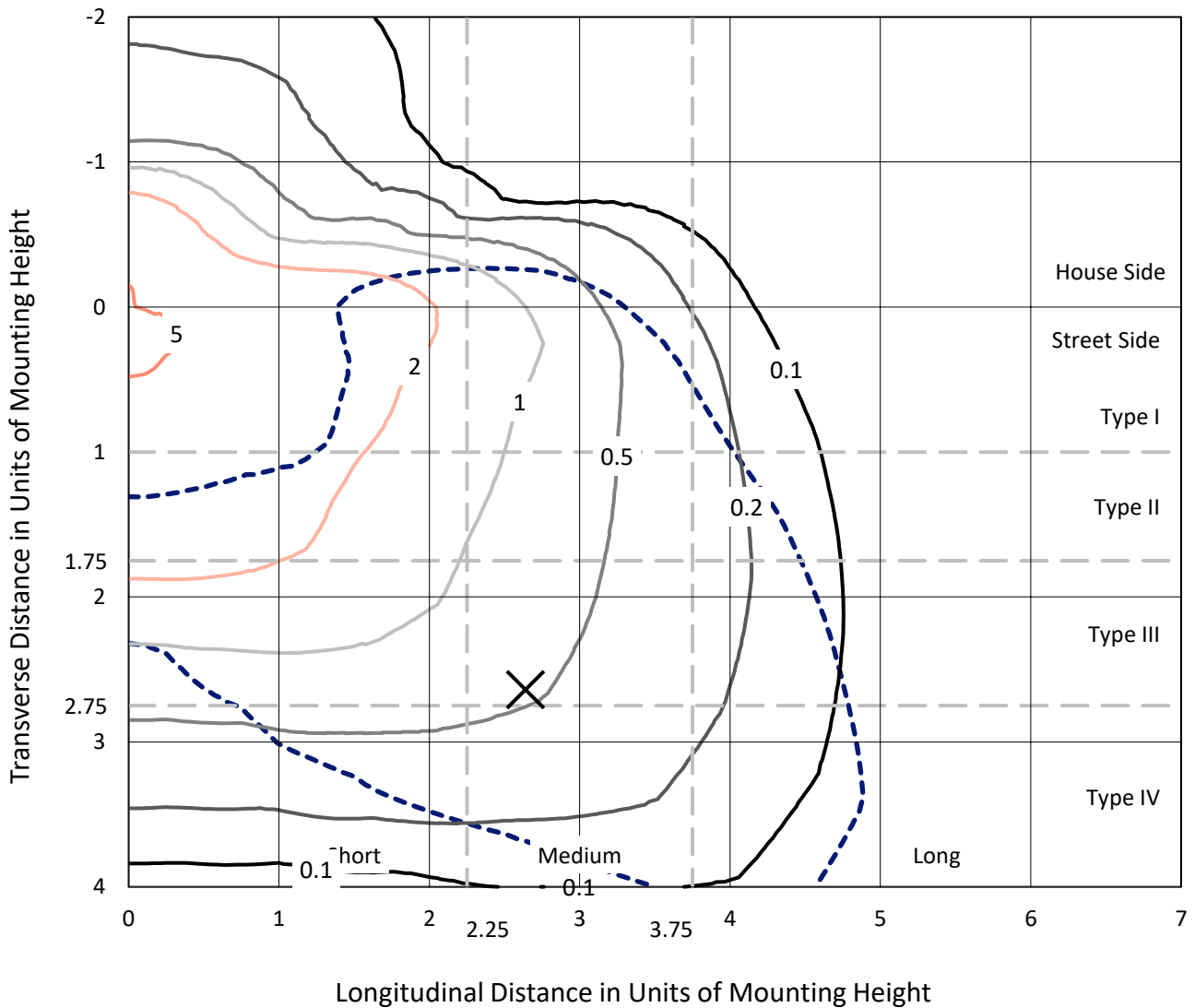
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P381009  
 CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

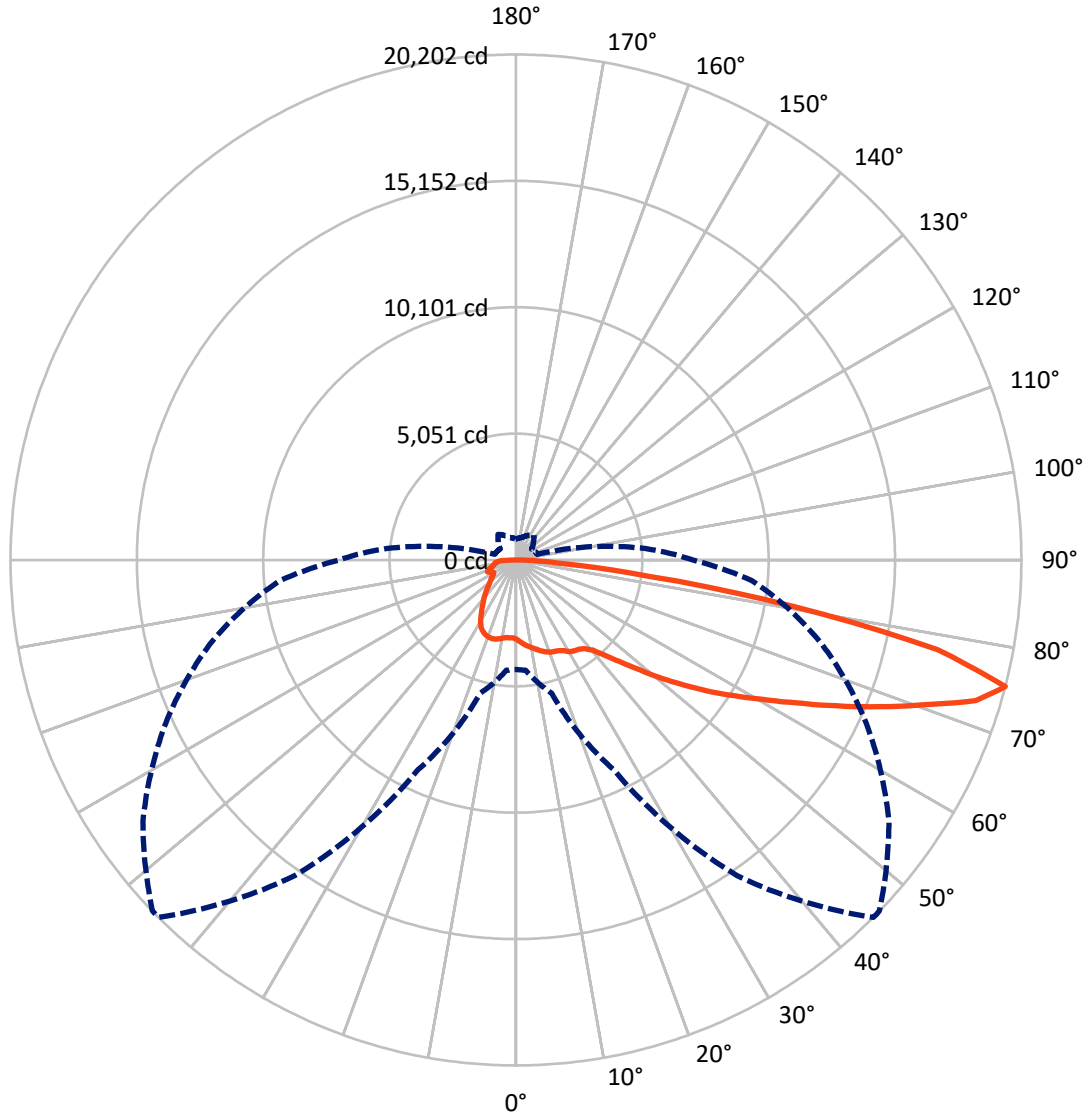
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P381009  
CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P381009

CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

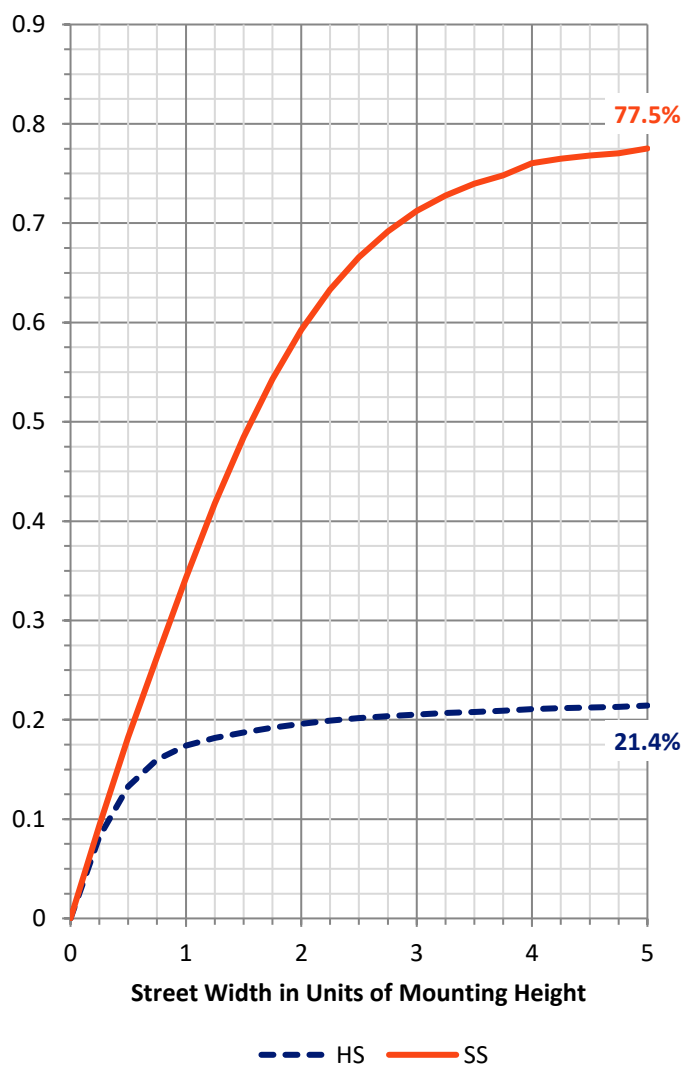
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6665.4	0.0	6665.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	23495.6	0.0	23495.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	30161.0	0.0	30161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.4	1.0
10°-20°	996.9	3.3
20°-30°	1699.6	5.6
30°-40°	2381.4	7.9
40°-50°	3498.5	11.6
50°-60°	5568.0	18.5
60°-70°	7920.5	26.3
70°-80°	6631.8	22.0
80°-90°	1150.9	3.8
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°	30161.0	100.0
0°-180°	30161.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P381009

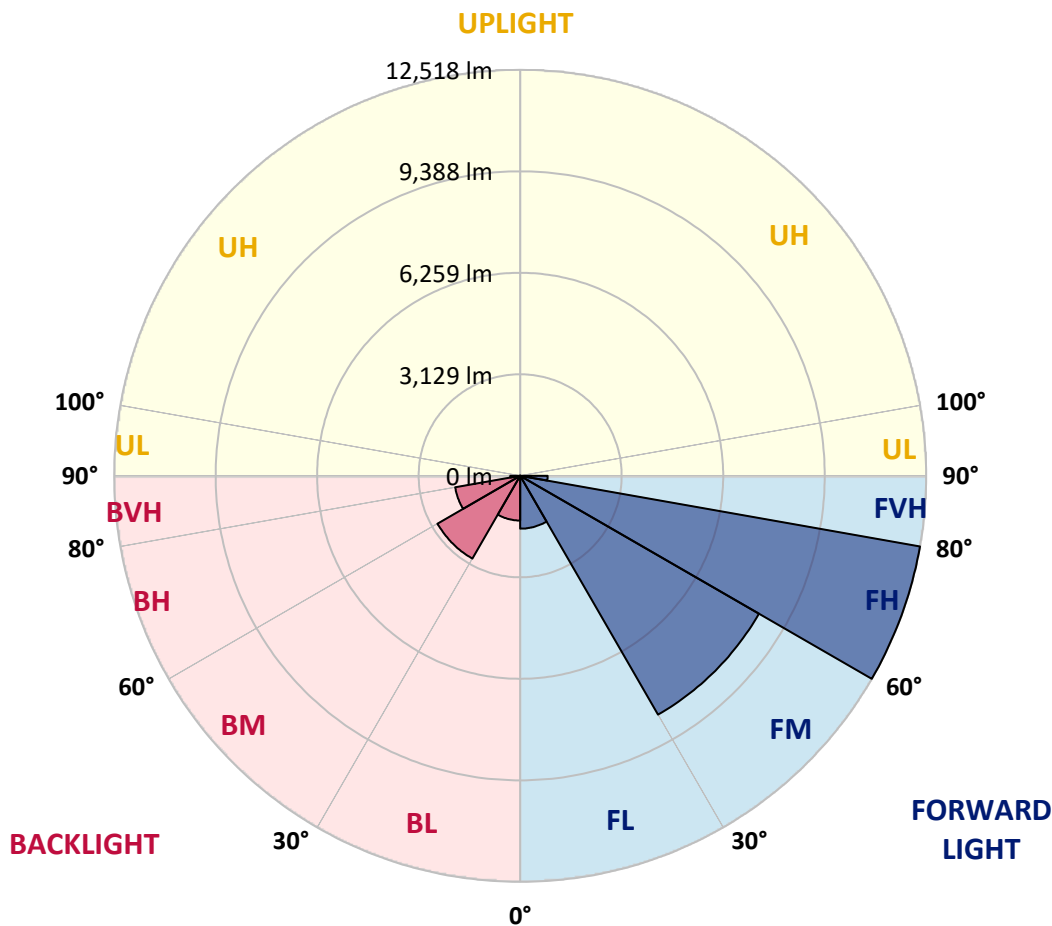
CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.4	5.4			
FM (30°-60°)	8501.5	28.2			
FH (60°-80°)	12517.6	41.5			G5
FVH (80°-90°)	846.1	2.8			G5
BL (0°-30°)	1379.5	4.6	B3/2500		
BM (30°-60°)	2946.4	9.8	B3/5000		
BH (60°-80°)	2034.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	304.8	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





REPORT NUMBER: P381009

CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6
2.5°	3348.9	3332.8	3324.7	3324.7	3292.5	3272.3	3268.3	3240.1	3215.9	3191.7	3171.6
5°	3542.4	3530.3	3506.1	3485.9	3441.6	3385.2	3377.1	3316.7	3256.2	3199.8	3151.4
7.5°	3719.7	3695.5	3667.3	3627.0	3554.4	3477.9	3465.8	3381.2	3296.5	3211.9	3147.4
10°	3868.8	3844.6	3804.3	3747.9	3655.2	3562.5	3550.4	3461.8	3373.1	3272.3	3179.7
12.5°	4009.8	3989.7	3929.2	3852.7	3743.9	3659.2	3647.1	3570.6	3477.9	3365.0	3244.1
15°	4130.7	4110.6	4046.1	3957.4	3832.5	3768.0	3751.9	3679.4	3586.7	3465.8	3340.9
17.5°	4191.2	4191.2	4122.7	4026.0	3909.1	3860.7	3848.6	3760.0	3675.3	3558.5	3433.5
20°	4211.3	4219.4	4171.0	4054.2	3953.4	3933.3	3921.2	3848.6	3751.9	3639.1	3522.2
22.5°	4223.4	4239.5	4199.2	4066.3	3981.6	3969.5	3961.5	3913.1	3836.5	3727.7	3610.9
25°	4263.7	4263.7	4235.5	4086.4	4017.9	4013.9	4013.9	3985.7	3933.3	3840.6	3723.7
27.5°	4324.2	4320.1	4283.9	4130.7	4098.5	4110.6	4106.6	4102.5	4066.3	3973.6	3848.6
30°	4424.9	4424.9	4384.6	4219.4	4199.2	4251.6	4255.7	4263.7	4207.3	4062.2	3961.5
32.5°	4578.1	4561.9	4521.6	4308.0	4275.8	4324.2	4332.2	4328.2	4279.8	4142.8	4094.5
35°	5049.6	5013.3	4868.2	4505.5	4344.3	4372.5	4376.6	4396.7	4404.8	4296.0	4271.8
37.5°	5875.7	5827.4	5605.7	4973.0	4561.9	4493.4	4489.4	4541.8	4586.1	4489.4	4489.4
40°	6774.4	6734.1	6605.1	5779.0	4964.9	4739.3	4723.1	4771.5	4827.9	4759.4	4779.6
42.5°	7548.2	7580.4	7592.5	6633.3	5569.4	5198.7	5154.3	5085.8	5174.5	5114.0	5194.6
45°	8128.5	8112.4	8334.0	7507.9	6351.2	5775.0	5714.5	5529.1	5642.0	5637.9	5815.3
47.5°	8745.1	8716.8	8809.5	8330.0	7241.9	6480.2	6387.5	6113.5	6282.7	6399.6	6693.8
50°	9329.4	9337.5	9369.7	8978.8	8209.1	7338.6	7221.7	6855.0	7096.8	7342.6	7757.7
52.5°	10091.1	10034.7	9994.4	9736.4	9293.1	8233.3	8156.7	7737.6	8076.1	8366.2	8918.3
55°	10756.0	10719.7	10695.6	10683.5	10199.9	9220.6	9140.0	8704.8	9192.4	9397.9	10212.0
57.5°	11465.3	11445.1	11574.1	11779.6	11586.2	10224.1	10139.4	9720.3	10264.4	10409.4	11614.4
60°	11985.2	11997.3	12351.9	12875.8	12742.8	11312.2	11211.4	10840.6	11308.1	11437.1	13016.8
62.5°	11989.2	12110.1	12932.2	13871.2	14024.3	12565.5	12448.6	12045.6	12380.1	12380.1	14274.2
65°	10844.7	10981.7	12827.4	14117.0	15322.0	14056.6	13943.7	13311.0	13436.0	13266.7	15455.0
67.5°	9704.2	9865.4	11602.3	14137.2	16232.8	15652.4	15519.5	14576.4	14362.9	13935.7	16281.1
70°	8946.6	9059.4	10510.2	13875.2	16780.8	17320.9	17220.1	15777.4	15092.3	14495.8	16107.8
72.5°	7532.0	7491.7	8878.0	12630.0	17087.1	19214.9	19130.3	17083.1	15725.0	14229.9	13738.2
75°	4372.5	4420.9	5509.0	9252.8	15402.6	20202.3	20194.2	18199.4	15446.9	12569.5	9466.4
77.5°	1261.4	1297.7	1809.5	4066.3	9740.5	17232.2	17784.3	16643.8	13057.1	8958.6	4908.5
80°	552.1	580.3	785.8	1354.1	4195.2	11255.7	11739.3	11255.7	7874.6	4110.6	1926.3
82.5°	326.4	346.6	511.8	838.2	2011.0	5355.8	6008.7	5247.0	3397.3	1745.0	797.9
85°	185.4	193.4	294.2	532.0	1265.4	1873.9	2103.7	1970.7	1656.3	991.4	419.1
87.5°	84.6	88.7	145.1	249.9	709.3	632.7	656.9	870.5	959.1	604.5	209.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381009

CATALOG NUMBER: PRV-XL-PA3B-750-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6
2.5°	3163.5	3151.4	3127.3	3119.2	3107.1	3111.1	3115.2	3115.2	3119.2	3107.1	3107.1
5°	3131.3	3111.1	3087.0	3087.0	3087.0	3119.2	3147.4	3163.5	3171.6	3171.6	3163.5
7.5°	3119.2	3095.0	3066.8	3074.9	3082.9	3123.2	3175.6	3228.0	3244.1	3244.1	3236.1
10°	3143.4	3119.2	3099.1	3111.1	3131.3	3163.5	3203.8	3252.2	3292.5	3296.5	3292.5
12.5°	3199.8	3171.6	3151.4	3175.6	3199.8	3220.0	3240.1	3260.3	3312.6	3320.7	3320.7
15°	3292.5	3264.3	3240.1	3260.3	3268.3	3268.3	3268.3	3268.3	3320.7	3328.8	3328.8
17.5°	3385.2	3361.0	3336.8	3340.9	3316.7	3284.4	3272.3	3268.3	3296.5	3320.7	3324.7
20°	3473.8	3453.7	3429.5	3389.2	3328.8	3268.3	3248.2	3248.2	3264.3	3300.6	3300.6
22.5°	3570.6	3546.4	3506.1	3413.4	3312.6	3228.0	3207.9	3220.0	3240.1	3288.5	3284.4
25°	3679.4	3647.1	3578.6	3405.3	3260.3	3159.5	3163.5	3199.8	3236.1	3288.5	3288.5
27.5°	3800.3	3755.9	3618.9	3340.9	3143.4	3046.7	3082.9	3167.6	3220.0	3276.4	3284.4
30°	3933.3	3893.0	3651.2	3228.0	2954.0	2865.3	2954.0	3091.0	3171.6	3224.0	3236.1
32.5°	4094.5	4062.2	3679.4	3082.9	2708.1	2631.6	2760.5	2929.8	3058.8	3119.2	3131.3
35°	4296.0	4263.7	3715.6	2917.7	2478.4	2397.8	2514.7	2688.0	2857.3	2933.8	2958.0
37.5°	4557.9	4509.5	3747.9	2740.4	2285.0	2192.3	2248.7	2405.9	2559.0	2663.8	2692.0
40°	4892.4	4815.8	3776.1	2538.9	2115.7	2011.0	2031.1	2107.7	2196.3	2289.0	2325.3
42.5°	5363.9	5210.8	3780.1	2325.3	1942.5	1845.7	1837.7	1861.9	1861.9	1861.9	1873.9
45°	6020.8	5730.6	3788.2	2123.8	1765.1	1664.4	1640.2	1632.1	1571.7	1454.8	1446.8
47.5°	6851.0	6411.7	3824.5	1954.5	1579.8	1491.1	1458.9	1426.6	1313.8	1192.9	1168.7
50°	7914.9	7201.6	3897.0	1793.3	1422.6	1362.1	1321.8	1245.3	1120.3	1027.6	1003.5
52.5°	9140.0	8140.6	3965.5	1624.1	1305.7	1265.4	1217.1	1124.4	991.4	935.0	926.9
55°	10546.5	9188.4	4102.5	1475.0	1205.0	1176.8	1132.4	1043.8	943.0	902.7	898.7
57.5°	11985.2	10361.1	4296.0	1342.0	1108.2	1092.1	1092.1	1015.6	951.1	935.0	935.0
60°	13371.5	11368.6	4146.9	1217.1	1019.6	1027.6	1104.2	1084.1	1035.7	1055.9	1067.9
62.5°	14447.5	11961.0	3365.0	1116.3	955.1	1027.6	1225.1	1225.1	1168.7	1160.6	1160.6
65°	14906.9	11952.9	2365.6	1039.7	930.9	1128.4	1366.2	1301.7	1152.6	1096.2	1084.1
67.5°	14790.0	11429.0	1632.1	987.3	922.9	1233.2	1430.6	1249.3	1080.0	1031.7	995.4
70°	13762.4	10320.8	1257.4	939.0	910.8	1188.8	1410.5	1188.8	1023.6	979.3	947.0
72.5°	11102.6	8277.6	1043.8	890.6	862.4	1100.2	1342.0	1132.4	979.3	930.9	898.7
75°	7080.7	5206.7	882.6	826.1	769.7	987.3	1249.3	1076.0	930.9	866.4	842.3
77.5°	3405.3	2244.7	769.7	749.6	693.2	914.8	1156.6	1003.5	866.4	814.1	797.9
80°	1378.3	1027.6	669.0	673.0	636.7	870.5	1092.1	935.0	802.0	745.5	717.3
82.5°	717.3	596.4	564.2	580.3	580.3	830.2	1043.8	878.5	745.5	721.4	628.7
85°	386.9	370.8	435.2	467.5	503.7	749.6	971.2	818.1	681.1	584.3	564.2
87.5°	189.4	241.8	245.8	282.1	350.6	600.5	818.1	685.1	568.2	471.5	463.4
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)