

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: P380937

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

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380937  
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-740-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30527 lumens  
Efficiency: N/A  
Efficacy: 130.5 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

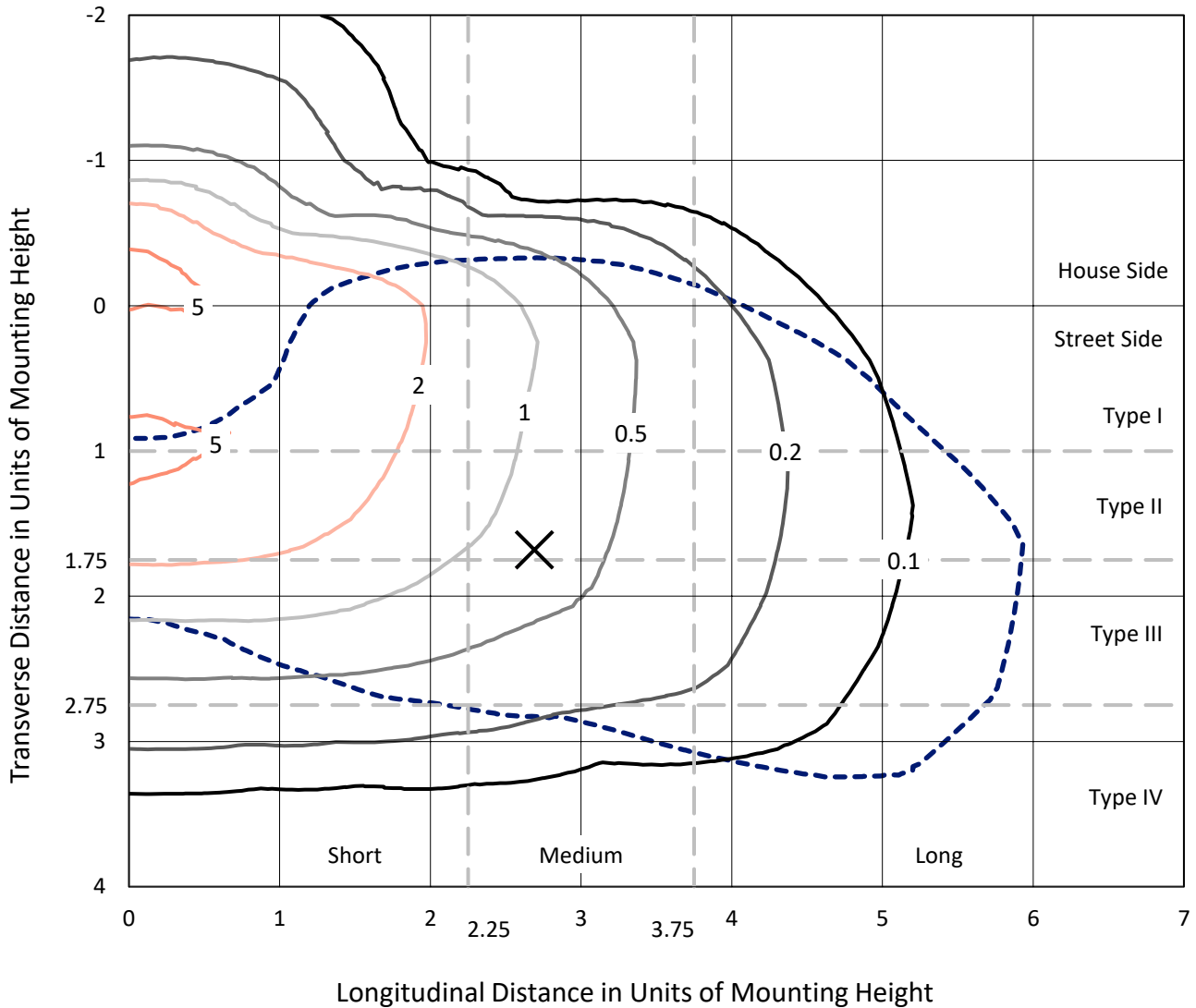
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P380937  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

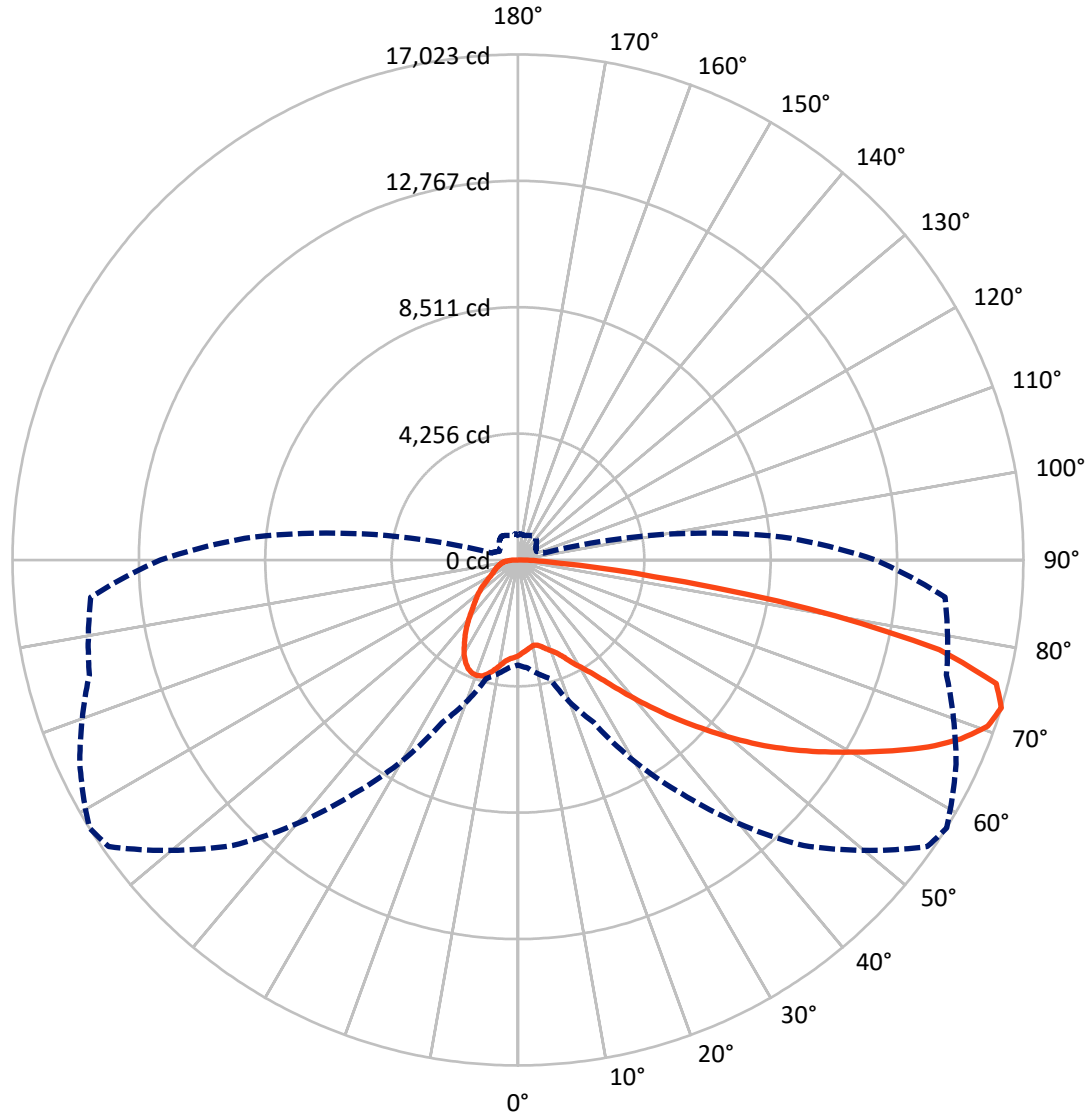
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P380937  
CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P380937  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

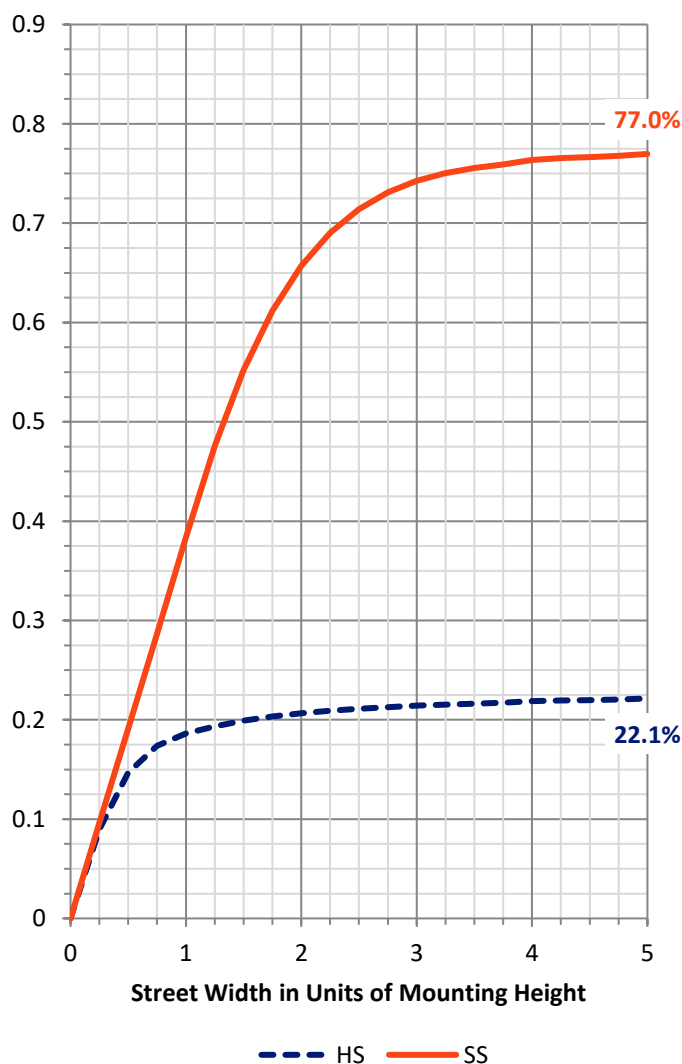
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6923.2	0.0	6923.2
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	23603.8	0.0	23603.8
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	30527.0	0.0	30527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.2	1.0
10°-20°	985.1	3.2
20°-30°	1764.6	5.8
30°-40°	2654.4	8.7
40°-50°	4298.4	14.1
50°-60°	6470.5	21.2
60°-70°	7615.1	24.9
70°-80°	5399.8	17.7
80°-90°	1028.9	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°	30527.0	100.0
0°-180°	30527.0	100.0

**Coefficient of Utilization**

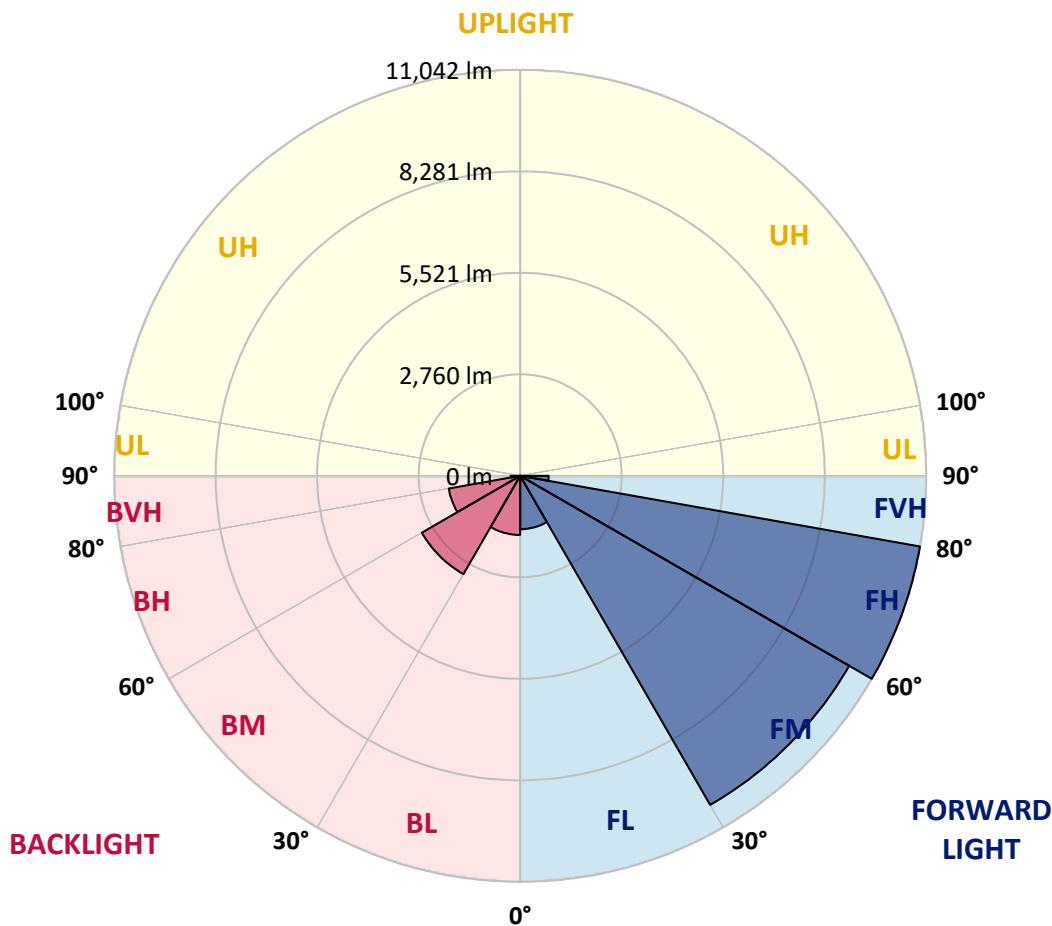


REPORT NUMBER: P380937  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.7	4.8			
FM (30°-60°)	10334.3	33.9			
FH (60°-80°)	11041.7	36.2			G4/12000
FVH (80°-90°)	776.1	2.5			G5
BL (0°-30°)	1608.1	5.3	B3/2500		
BM (30°-60°)	3089.1	10.1	B3/5000		
BH (60°-80°)	1973.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	252.8	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-G5**  
 Type IV Medium





REPORT NUMBER: P380937

CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9
2.5°	3099.1	3082.9	3087.0	3087.0	3103.1	3111.1	3115.2	3127.3	3135.3	3155.5	3183.7
5°	2954.0	2941.9	2945.9	2949.9	2978.2	3006.4	3030.5	3046.7	3070.8	3103.1	3143.4
7.5°	2849.2	2841.1	2845.2	2853.2	2877.4	2909.6	2949.9	2974.1	3010.4	3070.8	3139.4
10°	2772.6	2772.6	2776.7	2792.8	2817.0	2857.3	2889.5	2917.7	2990.2	3099.1	3203.8
12.5°	2712.2	2712.2	2724.3	2756.5	2796.8	2837.1	2913.7	2945.9	3042.6	3191.7	3316.7
15°	2708.1	2712.2	2716.2	2744.4	2788.7	2877.4	2990.2	3038.6	3155.5	3332.8	3477.9
17.5°	2772.6	2776.7	2760.5	2768.6	2821.0	2945.9	3095.0	3151.4	3300.5	3494.0	3643.1
20°	2970.1	2970.1	2921.7	2877.4	2913.7	3050.7	3219.9	3276.4	3441.6	3655.2	3804.3
22.5°	3373.1	3393.2	3280.4	3183.7	3127.3	3203.8	3357.0	3417.4	3602.8	3832.5	3981.6
25°	3860.7	3880.9	3727.7	3590.7	3485.9	3473.8	3574.6	3639.1	3792.2	4030.0	4154.9
27.5°	4332.2	4296.0	4154.9	4025.9	3893.0	3784.1	3860.7	3917.1	4094.5	4275.8	4352.4
30°	4703.0	4674.8	4537.8	4445.1	4320.1	4179.1	4134.8	4195.2	4340.3	4509.5	4549.8
32.5°	5114.0	5093.9	4956.9	4836.0	4731.2	4598.2	4501.5	4529.7	4610.3	4731.2	4755.4
35°	5637.9	5682.3	5537.2	5291.4	5174.5	5045.5	4977.0	4985.1	5045.5	5122.1	5081.8
37.5°	6190.0	6242.4	6250.5	5863.6	5706.4	5589.6	5517.0	5545.2	5617.8	5670.2	5545.2
40°	7213.7	7161.3	6951.7	6665.6	6423.8	6310.9	6210.2	6206.2	6258.6	6351.2	6125.6
42.5°	8571.8	8523.4	8100.2	7729.5	7346.6	7217.7	7020.2	6935.6	6959.8	7076.6	6762.3
45°	9873.4	9853.3	9514.8	9083.6	8624.1	8374.3	7922.9	7717.4	7697.3	7789.9	7415.2
47.5°	11030.0	10941.4	10695.6	10361.1	10312.7	9659.8	8829.7	8551.6	8454.9	8507.3	8088.2
50°	12267.2	11965.0	11626.5	11420.9	11771.6	11163.0	9744.5	9454.3	9216.6	9252.8	8817.6
52.5°	12924.1	12416.4	12194.7	12255.2	12726.7	12492.9	10739.9	10385.2	10002.4	10054.8	9543.0
55°	12359.9	12355.9	12452.6	12827.4	13484.3	13214.3	11686.9	11288.0	10868.8	10880.9	10377.2
57.5°	11586.2	11743.3	12243.1	13069.2	14423.3	13971.9	12617.8	12194.7	11811.9	11751.4	11324.2
60°	10880.9	11054.2	11779.6	13028.9	14749.7	14665.1	13504.4	13133.7	12823.4	12646.1	12319.6
62.5°	9809.0	9937.9	10965.6	12771.0	14475.7	15164.8	14403.1	14149.2	13915.5	13548.8	13391.6
65°	8547.6	8591.9	9676.0	11920.7	14133.1	15358.2	15297.8	15184.9	14959.3	14419.2	14451.5
67.5°	7181.4	7270.1	8221.1	10562.6	13383.5	15269.6	15990.9	16083.6	15817.6	15007.6	15128.5
70°	5726.6	5835.4	6556.8	8684.6	12110.1	14886.7	16631.7	16780.8	16269.0	15201.1	15253.5
72.5°	3542.3	3647.1	4130.7	6032.9	9599.4	13601.2	16829.2	17022.6	16281.1	14943.1	14439.4
75°	1225.1	1237.2	1616.0	2893.5	5698.4	10268.4	16184.4	16639.8	15769.3	14004.2	12565.5
77.5°	560.2	580.3	717.3	1192.9	2526.8	5541.2	13363.4	14503.9	14213.7	12537.3	9671.9
80°	386.9	394.9	495.7	713.3	1458.9	1950.5	8434.7	9921.8	10429.6	9708.2	6198.1
82.5°	290.2	298.2	382.8	483.6	1051.8	947.0	3211.9	4610.3	5730.6	5625.8	2591.3
85°	278.1	274.0	298.2	322.4	701.2	564.2	1039.7	1426.6	2236.6	1914.2	652.9
87.5°	120.9	133.0	306.3	181.3	366.7	261.9	451.4	527.9	681.1	592.4	233.7
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: P380937  
 CATALOG NUMBER: PRV-XL-PA3B-740-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9
2.5°	3195.8	3203.8	3228.0	3264.3	3284.4	3324.7	3352.9	3369.1	3381.1	3385.2	3385.2
5°	3167.6	3183.7	3236.1	3296.5	3352.9	3437.6	3514.1	3558.5	3590.7	3602.8	3606.8
7.5°	3175.6	3215.9	3292.5	3381.1	3453.7	3562.5	3655.2	3743.8	3816.4	3844.6	3844.6
10°	3252.2	3308.6	3413.4	3530.3	3622.9	3735.8	3832.5	3909.1	3993.7	4042.1	4050.1
12.5°	3369.1	3437.6	3574.6	3703.5	3808.3	3897.0	3985.6	4042.1	4082.4	4118.6	4126.7
15°	3534.3	3618.9	3755.9	3888.9	3981.6	4038.0	4062.2	4062.2	4058.2	4062.2	4070.3
17.5°	3699.5	3780.1	3917.1	4050.1	4094.5	4062.2	4034.0	4025.9	4021.9	4013.9	4017.9
20°	3860.7	3937.3	4054.2	4154.9	4118.6	4005.8	3969.5	3965.5	3953.4	3945.3	3937.3
22.5°	4021.9	4078.3	4175.1	4211.3	4066.2	3905.0	3860.7	3836.5	3820.4	3800.3	3780.1
25°	4207.3	4223.4	4296.0	4239.5	3937.3	3719.7	3655.2	3618.9	3602.8	3582.6	3566.5
27.5°	4380.6	4380.6	4392.7	4195.2	3747.9	3473.8	3377.1	3312.6	3308.6	3304.6	3300.5
30°	4537.8	4517.6	4477.3	4062.2	3502.0	3171.6	3026.5	2962.0	2986.2	3006.4	3010.4
32.5°	4723.1	4682.8	4570.0	3880.9	3207.9	2833.1	2655.8	2627.5	2655.8	2679.9	2663.8
35°	5013.3	4940.7	4666.7	3671.3	2925.8	2522.8	2353.5	2313.2	2305.1	2301.1	2268.9
37.5°	5428.4	5303.4	4743.3	3445.6	2647.7	2248.7	2123.8	2039.2	1962.6	1882.0	1869.9
40°	5936.2	5722.6	4795.7	3187.7	2353.5	2019.0	1886.0	1777.2	1648.3	1507.2	1491.1
42.5°	6492.3	6173.9	4819.8	2901.6	2095.6	1829.6	1664.4	1527.4	1382.3	1273.5	1253.3
45°	7092.8	6661.5	4799.7	2627.5	1886.0	1668.4	1483.0	1333.9	1217.1	1140.5	1124.4
47.5°	7677.1	7221.7	4743.3	2409.9	1724.8	1531.4	1342.0	1205.0	1116.3	1031.7	1011.5
50°	8426.7	7757.7	4674.8	2240.7	1547.5	1394.4	1253.3	1108.2	1007.5	967.2	959.1
52.5°	9256.9	8293.7	4594.2	2027.1	1374.2	1285.6	1196.9	1067.9	1035.7	959.1	947.0
55°	10155.5	8930.4	4578.1	1757.1	1221.1	1209.0	1140.5	1104.2	1112.3	959.1	939.0
57.5°	11102.6	9611.5	4614.3	1487.1	1096.2	1140.5	1164.7	1136.5	1124.4	979.3	939.0
60°	12089.9	10268.4	4505.5	1237.2	999.4	1084.1	1192.9	1120.3	1031.7	971.2	943.0
62.5°	13049.1	10820.5	4034.0	1059.9	926.9	1067.9	1176.8	1059.9	959.1	959.1	947.0
65°	13746.2	11066.3	3155.5	930.9	878.5	1047.8	1148.5	1019.6	939.0	967.2	951.1
67.5°	13826.8	10812.4	2119.8	830.2	838.2	1011.5	1084.1	983.3	918.8	991.4	967.2
70°	13331.2	10151.5	1297.7	753.6	785.8	947.0	1027.6	947.0	890.6	971.2	935.0
72.5°	12045.6	8918.3	914.8	689.1	729.4	886.6	975.3	914.8	850.3	878.5	842.3
75°	9881.5	6911.4	725.4	628.7	673.0	830.2	930.9	866.4	802.0	789.9	765.7
77.5°	7000.1	4428.9	584.3	580.3	612.6	761.7	870.5	810.0	745.5	721.4	705.2
80°	4025.9	2172.2	503.7	523.9	556.1	693.2	797.9	745.5	685.1	648.8	624.6
82.5°	1539.5	757.6	443.3	455.4	491.7	620.6	725.4	681.1	620.6	652.9	548.1
85°	499.7	415.1	362.7	374.8	411.1	515.8	640.8	604.5	536.0	475.5	439.3
87.5°	221.6	225.7	193.4	213.6	257.9	342.5	467.5	443.3	390.9	326.4	314.3
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)