

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: P381129

Luminaire Tested: **PRV-XL-PA3B-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381129
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-PA3B-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30616 lumens
Efficiency: N/A
Efficacy: 130.8 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

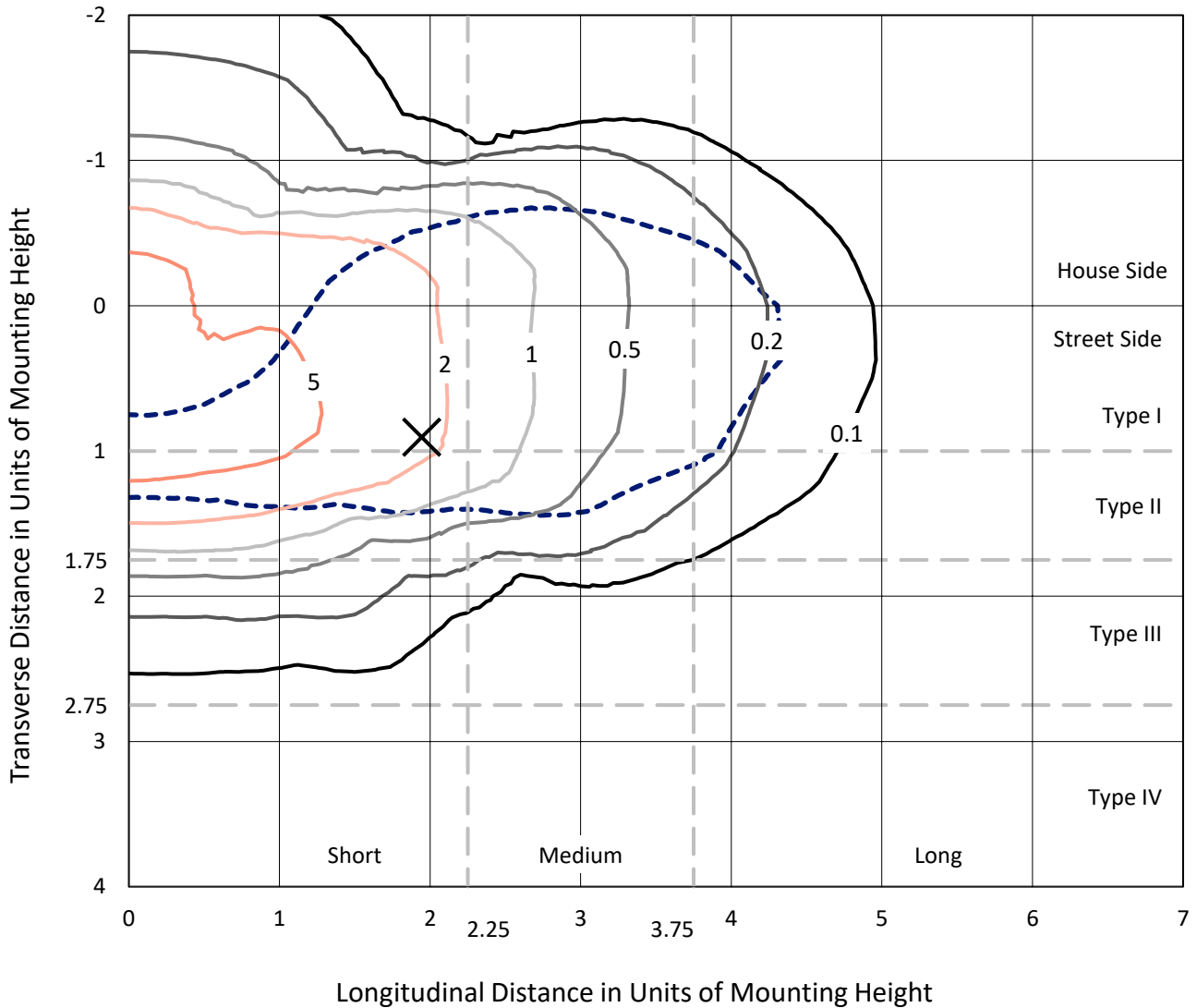
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

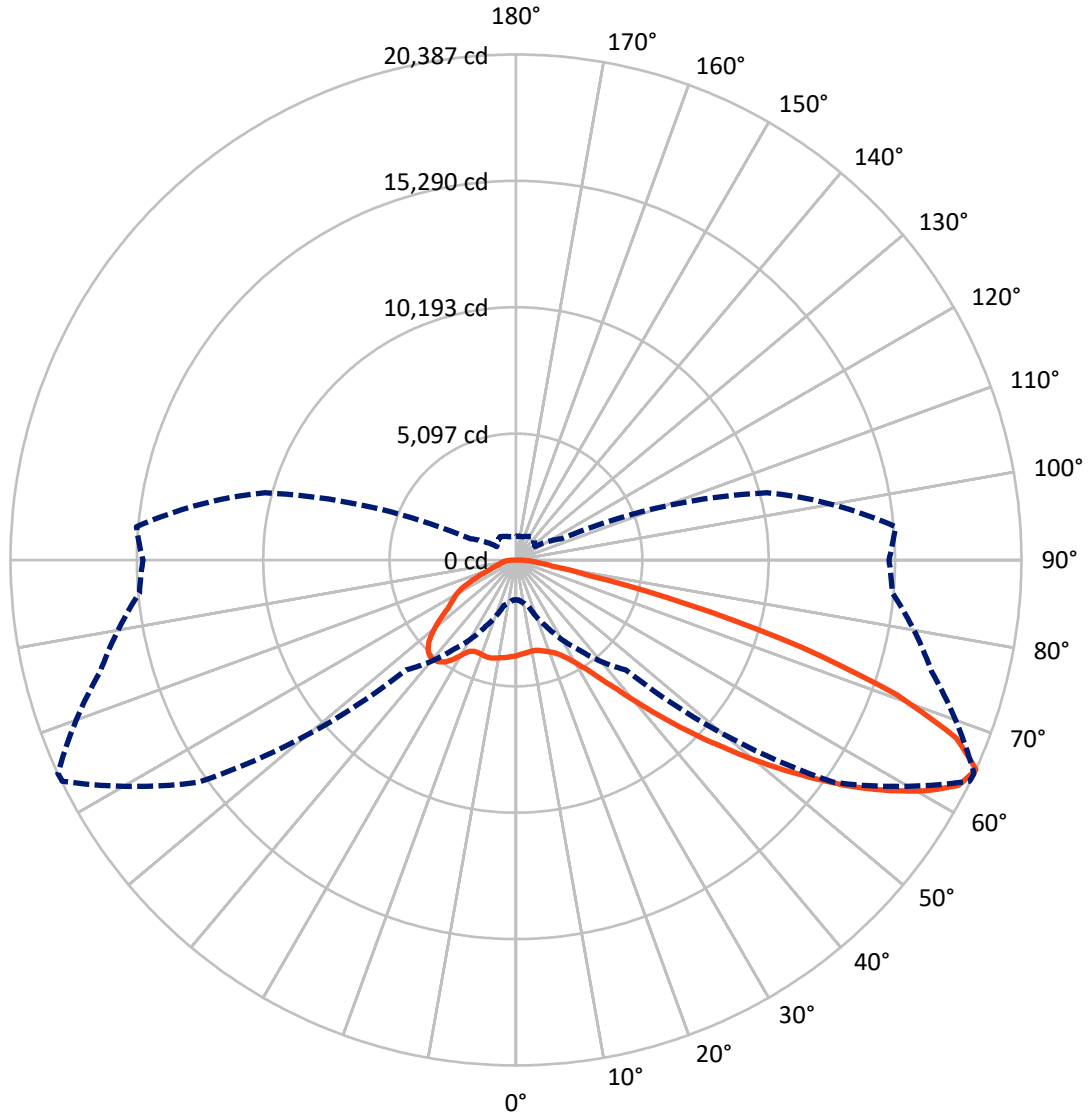
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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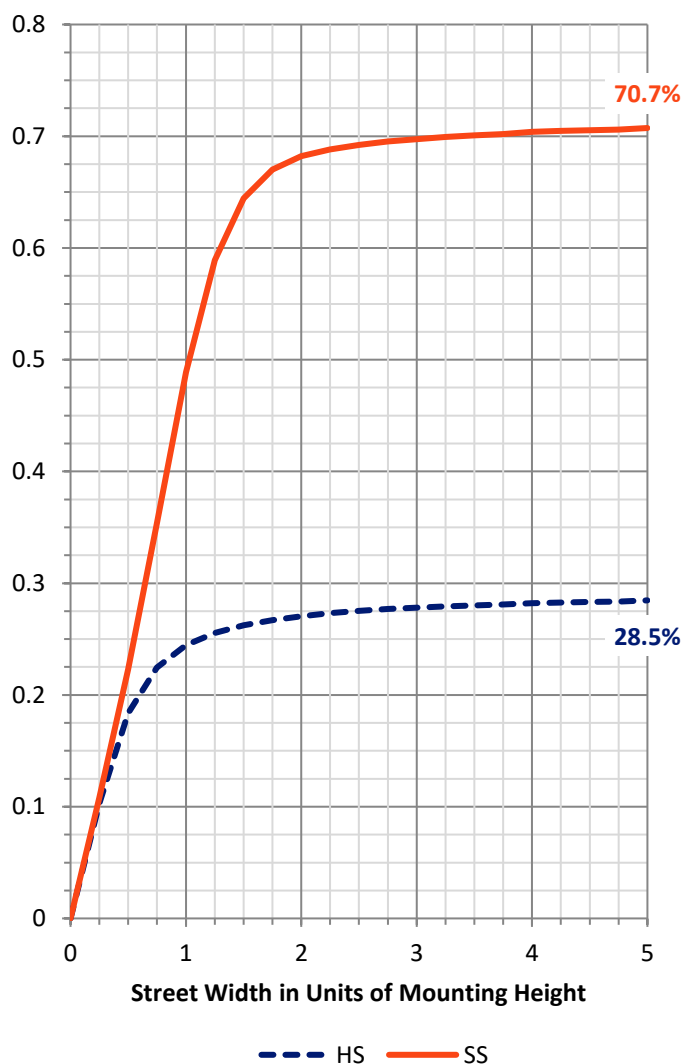
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8851.5	0.0	8851.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21764.5	0.0	21764.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	30616.0	0.0	30616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	1.2
10°-20°	1100.4	3.6
20°-30°	1954.6	6.4
30°-40°	3306.7	10.8
40°-50°	5756.4	18.8
50°-60°	7439.1	24.3
60°-70°	6509.6	21.3
70°-80°	3540.8	11.6
80°-90°	639.8	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°	30616.0	100.0
0°-180°	30616.0	100.0

Coefficient of Utilization



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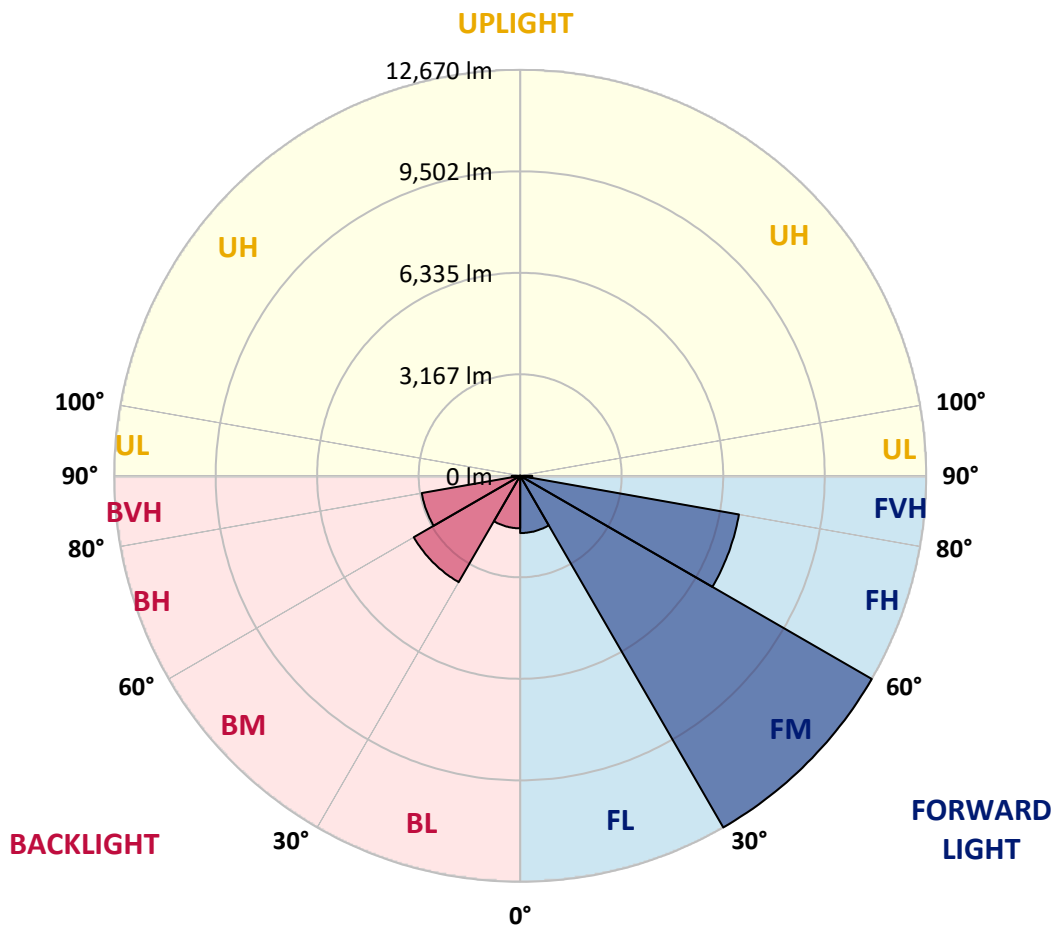
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.4	5.8			
FM (30°-60°)	12669.7	41.4			
FH (60°-80°)	6931.9	22.6			G3/7500
FVH (80°-90°)	376.5	1.2			G3/500
BL (0°-30°)	1637.2	5.3	B3/2500		
BM (30°-60°)	3832.5	12.5	B3/5000		
BH (60°-80°)	3118.5	10.2	B4/5000		G4/5000
BVH (80°-90°)	263.3	0.9			G3/500
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°	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6
2.5°	3800.1	3796.1	3788.0	3796.1	3800.1	3808.2	3804.1	3812.2	3808.2	3820.3	3840.4
5°	3703.4	3695.3	3691.3	3711.5	3723.6	3743.7	3751.8	3780.0	3775.9	3796.1	3828.3
7.5°	3594.6	3594.6	3590.6	3614.7	3630.9	3667.1	3695.3	3743.7	3747.7	3784.0	3820.3
10°	3510.0	3514.0	3510.0	3530.1	3554.3	3598.6	3647.0	3715.5	3719.5	3771.9	3808.2
12.5°	3477.7	3477.7	3477.7	3505.9	3538.2	3598.6	3655.0	3727.6	3735.6	3792.1	3824.3
15°	3522.1	3526.1	3518.0	3546.2	3582.5	3655.0	3707.4	3784.0	3792.1	3844.4	3864.6
17.5°	3679.2	3695.3	3675.2	3691.3	3683.3	3739.7	3788.0	3864.6	3868.6	3913.0	3921.0
20°	3989.5	4005.6	3973.4	3953.3	3880.7	3876.7	3896.8	3957.3	3957.3	3985.5	3965.3
22.5°	4469.1	4485.2	4428.8	4352.2	4178.9	4094.3	4050.0	4078.2	4074.1	4086.2	4033.8
25°	5105.8	5101.8	5033.2	4892.2	4614.1	4408.6	4299.8	4255.5	4255.5	4231.3	4166.8
27.5°	5895.6	5835.2	5714.3	5545.0	5158.2	4872.1	4638.3	4525.5	4505.3	4432.8	4311.9
30°	6737.9	6693.5	6520.2	6274.4	5827.1	5460.4	5073.5	4847.9	4835.8	4678.6	4497.3
32.5°	7729.2	7656.7	7463.2	7169.0	6633.1	6117.3	5633.7	5291.2	5271.0	5021.2	4771.3
35°	9002.6	8942.2	8567.4	8273.2	7584.1	6907.1	6334.9	5879.5	5863.4	5557.1	5238.8
37.5°	10529.9	10372.8	10010.1	9458.0	8732.6	7930.7	7205.3	6633.1	6612.9	6274.4	5871.4
40°	11892.0	11751.0	11428.6	10920.8	10143.1	9252.5	8269.2	7576.1	7555.9	7144.9	6637.1
42.5°	12899.5	12802.7	12593.2	12299.0	11742.9	11202.9	9627.2	8716.5	8680.2	8148.3	7515.6
45°	13483.8	13407.2	13286.3	13358.9	13350.8	13250.0	11247.2	10074.5	9957.7	9268.6	8494.9
47.5°	13342.7	13274.2	13322.6	13886.8	14664.5	15248.8	13133.2	11464.8	11307.7	10409.0	9538.6
50°	12323.2	12351.4	12605.3	13685.3	15430.2	16727.8	15224.7	13048.6	12839.0	11557.5	10529.9
52.5°	10465.4	10533.9	11150.5	12661.7	15345.6	17686.9	17114.6	14684.7	14406.6	12677.8	11432.6
55°	8313.5	8486.8	9284.7	10872.5	14241.4	17755.4	18541.2	16328.8	16022.6	13729.6	12218.4
57.5°	6149.5	6407.4	7330.2	8789.0	12125.7	16671.4	19254.5	17900.5	17529.7	14773.3	13048.6
60°	3900.9	4058.0	5121.9	6842.6	9280.7	14019.7	19161.8	19238.4	18916.0	15813.0	13915.0
62.5°	2490.4	2567.0	3103.0	4880.1	6488.0	10380.8	18150.3	20249.8	20032.2	16760.0	14737.0
65°	1599.8	1632.1	1906.1	3002.2	4416.7	6266.4	15631.7	20358.6	20386.9	17352.4	15244.8
67.5°	1301.6	1317.8	1418.5	1853.7	3123.1	3461.6	10888.6	18811.2	19153.7	17199.3	15071.5
70°	1184.8	1204.9	1309.7	1478.9	2417.9	2389.7	5271.0	15740.5	16300.6	16316.7	14301.8
72.5°	999.4	1027.6	1168.6	1398.3	1869.8	1886.0	2232.5	11211.0	12037.1	14583.9	13145.3
75°	834.2	850.3	971.2	1233.1	1583.7	1507.2	1567.6	5944.0	7136.8	11694.5	11916.2
77.5°	677.0	693.1	781.8	983.3	1406.4	1172.7	1233.1	2462.2	3042.5	7938.7	9740.1
80°	483.6	499.7	600.4	765.7	1063.9	1055.8	914.8	1358.0	1474.9	4291.8	6326.8
82.5°	346.6	358.7	455.4	548.1	737.5	1059.8	689.1	922.8	967.2	1902.1	2550.9
85°	233.7	233.7	314.3	362.7	475.5	669.0	556.1	624.6	652.8	902.7	689.1
87.5°	100.7	100.7	169.3	185.4	249.8	310.3	415.1	314.3	322.4	487.6	282.1
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°	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6	3868.6
2.5°	3852.5	3856.5	3864.6	3888.8	3904.9	3929.1	3941.2	3957.3	3957.3	3949.2	3953.3
5°	3844.4	3856.5	3884.7	3929.1	3957.3	4001.6	4033.8	4058.0	4066.1	4058.0	4062.1
7.5°	3840.4	3860.6	3908.9	3973.4	4013.7	4070.1	4114.4	4142.7	4162.8	4154.7	4158.8
10°	3828.3	3860.6	3921.0	4001.6	4062.1	4118.5	4158.8	4170.9	4183.0	4174.9	4170.9
12.5°	3844.4	3880.7	3945.2	4041.9	4110.4	4154.7	4166.8	4146.7	4118.5	4102.4	4098.3
15°	3876.7	3913.0	3977.4	4078.2	4138.6	4154.7	4126.5	4062.1	3997.6	3961.3	3957.3
17.5°	3921.0	3945.2	3997.6	4086.2	4134.6	4114.4	4058.0	3981.5	3933.1	3904.9	3908.9
20°	3949.2	3949.2	3989.5	4058.0	4098.3	4082.2	4013.7	3929.1	3852.5	3816.2	3804.1
22.5°	3989.5	3969.4	3973.4	4033.8	4090.3	4066.1	3921.0	3771.9	3663.1	3622.8	3618.8
25°	4098.3	4041.9	4005.6	4041.9	4174.9	3977.4	3687.3	3514.0	3413.3	3377.0	3381.0
27.5°	4231.3	4154.7	4078.2	4138.6	4243.4	3775.9	3389.1	3191.6	3131.2	3103.0	3115.1
30°	4364.3	4263.5	4162.8	4380.4	4195.0	3461.6	3006.2	2812.8	2760.4	2740.3	2756.4
32.5°	4610.1	4444.9	4324.0	4702.8	4045.9	3103.0	2591.2	2413.9	2365.5	2341.3	2333.3
35°	5021.2	4811.6	4690.7	4984.9	3836.4	2704.0	2212.4	2087.4	2035.1	1982.7	1974.6
37.5°	5613.5	5359.7	5250.9	5146.1	3542.2	2309.1	1922.2	1837.6	1761.0	1680.4	1676.4
40°	6322.8	5992.3	5911.7	5218.6	3135.2	1938.3	1720.7	1640.1	1543.4	1466.9	1470.9
42.5°	7140.8	6717.7	6544.4	5198.5	2631.5	1740.9	1575.7	1487.0	1402.4	1333.9	1329.8
45°	8015.3	7535.8	7136.8	5057.4	2131.8	1603.9	1487.0	1382.2	1297.6	1221.0	1213.0
47.5°	8982.5	8446.5	7684.9	4783.4	1761.0	1507.2	1434.6	1285.5	1208.9	1160.6	1160.6
50°	9957.7	9316.9	8188.6	4368.3	1543.4	1434.6	1358.0	1233.1	1172.7	1132.4	1132.4
52.5°	10791.9	10223.7	8603.7	3872.7	1406.4	1374.2	1305.7	1208.9	1144.5	1108.2	1104.2
55°	11601.8	11065.9	8974.4	3381.0	1293.6	1293.6	1293.6	1188.8	1116.3	1084.0	1080.0
57.5°	12407.8	11952.4	9361.3	3058.6	1192.8	1225.1	1269.4	1164.6	1092.1	1063.9	1059.8
60°	13318.6	13016.3	9808.6	2833.0	1104.2	1152.5	1237.2	1136.4	1051.8	1027.6	1023.6
62.5°	14285.7	14285.7	10215.6	2514.6	1023.6	1092.1	1188.8	1100.1	1015.5	995.4	991.3
65°	15043.3	15369.7	10477.5	2039.1	943.0	1031.6	1132.4	1051.8	967.2	963.1	955.1
67.5°	15132.0	15643.8	10312.3	1539.4	870.4	967.2	1076.0	999.4	918.8	918.8	906.7
70°	14495.3	15015.1	9796.5	1152.5	818.1	902.7	1003.4	934.9	858.4	866.4	846.3
72.5°	13431.4	13560.3	8515.0	910.7	757.6	834.2	914.8	862.4	793.9	793.9	765.7
75°	12029.0	11311.7	6185.8	761.6	685.1	753.6	826.1	781.8	721.3	701.2	685.1
77.5°	9574.9	8196.7	3594.6	656.9	624.6	677.0	725.4	693.1	640.7	596.4	596.4
80°	5835.2	4803.5	1587.7	568.2	552.1	592.4	624.6	588.4	544.0	499.7	487.6
82.5°	2220.4	1853.7	769.7	487.6	483.6	507.8	531.9	495.7	463.4	443.3	382.8
85°	608.5	560.1	527.9	407.0	399.0	394.9	423.1	407.0	362.7	298.2	266.0
87.5°	229.7	261.9	286.1	249.8	266.0	245.8	282.1	257.9	229.7	149.1	133.0
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)