

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: P380930

Luminaire Tested: **PRV-XL-PA4A-730-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380930
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-PA4A-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30903 lumens
Efficiency: N/A
Efficacy: 126.1 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

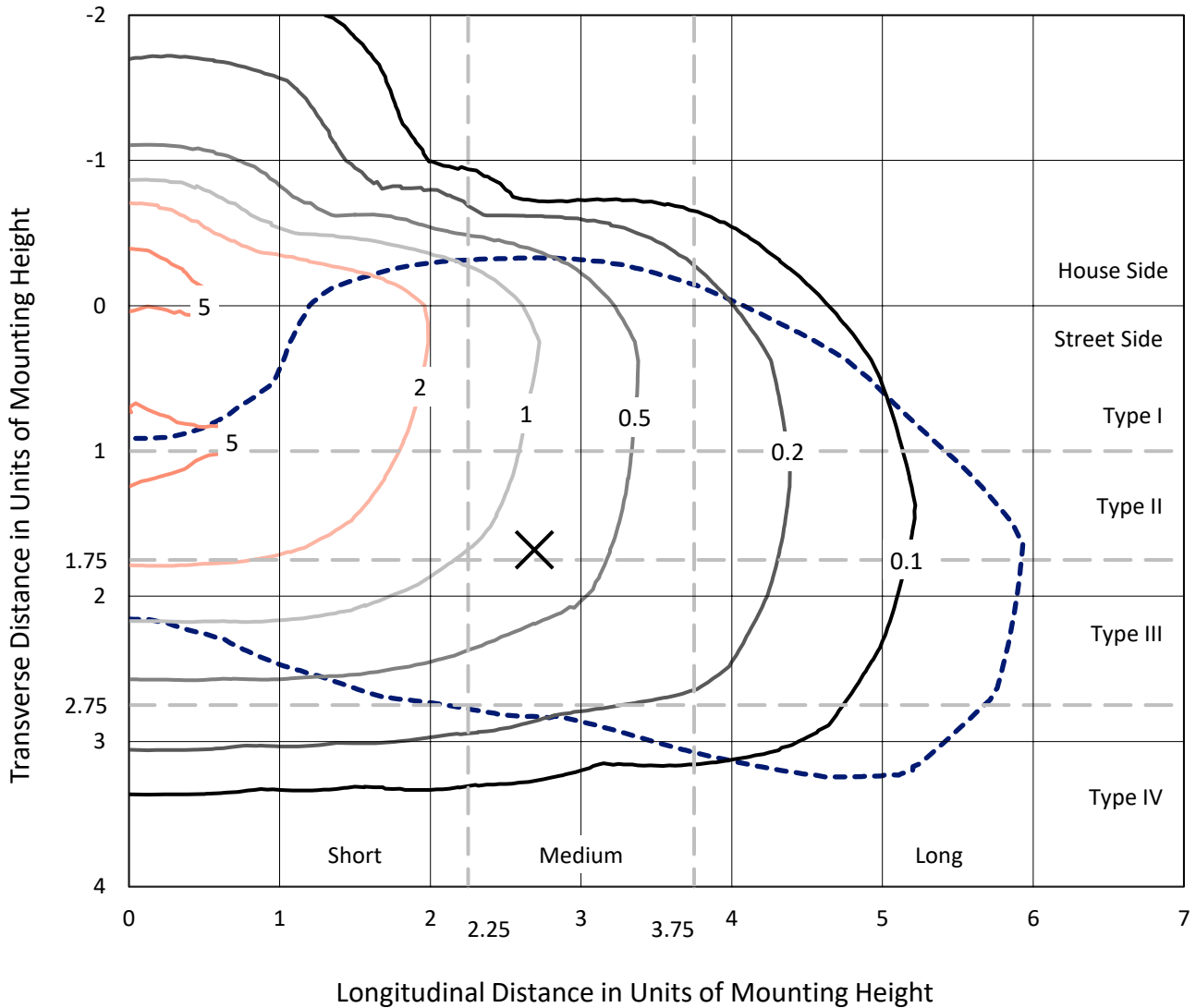
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P380930
 CATALOG NUMBER: PRV-XL-PA4A-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

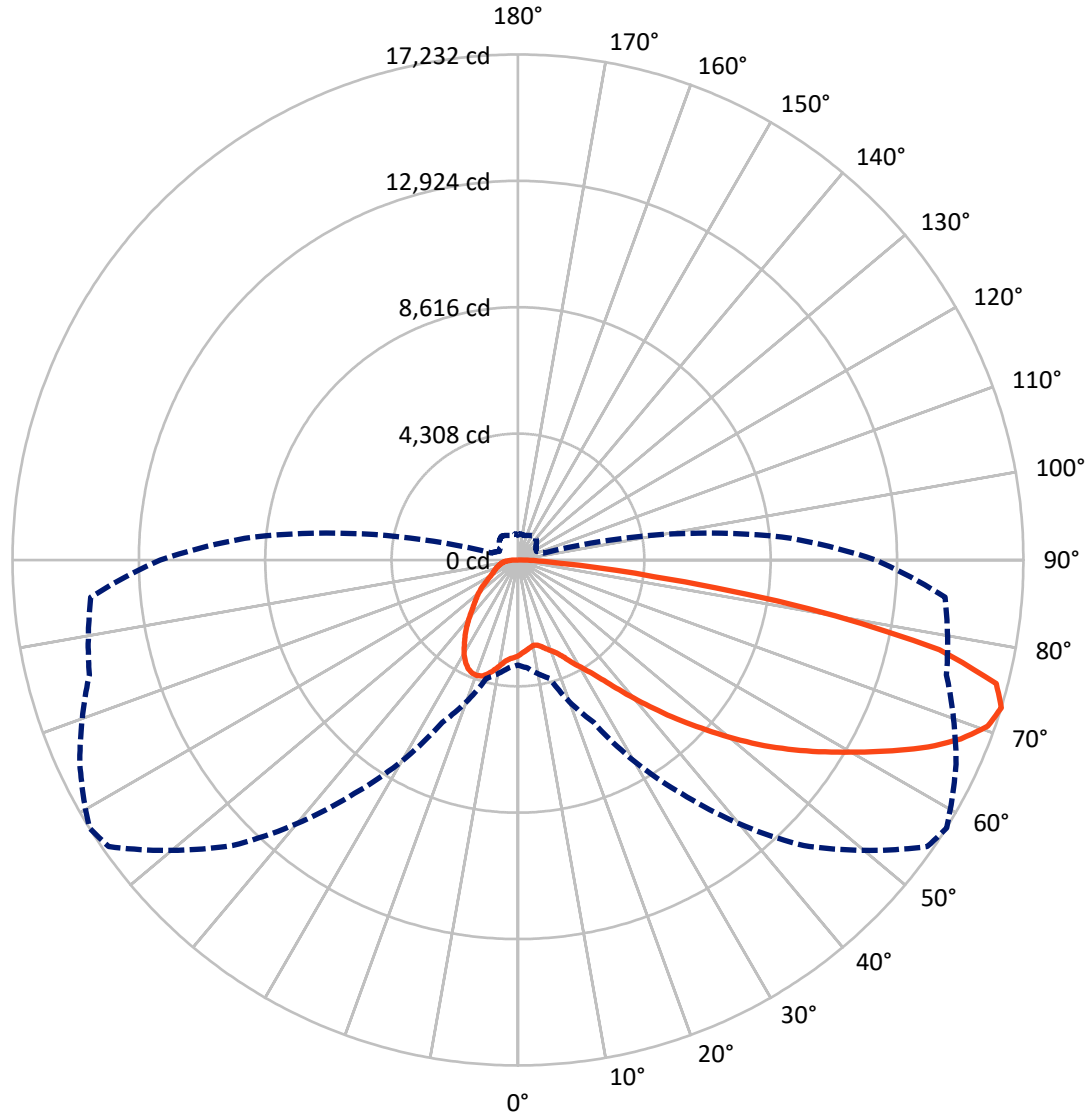
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P380930
CATALOG NUMBER: PRV-XL-PA4A-730-U-T3

Luminous Intensity Polar Plot



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

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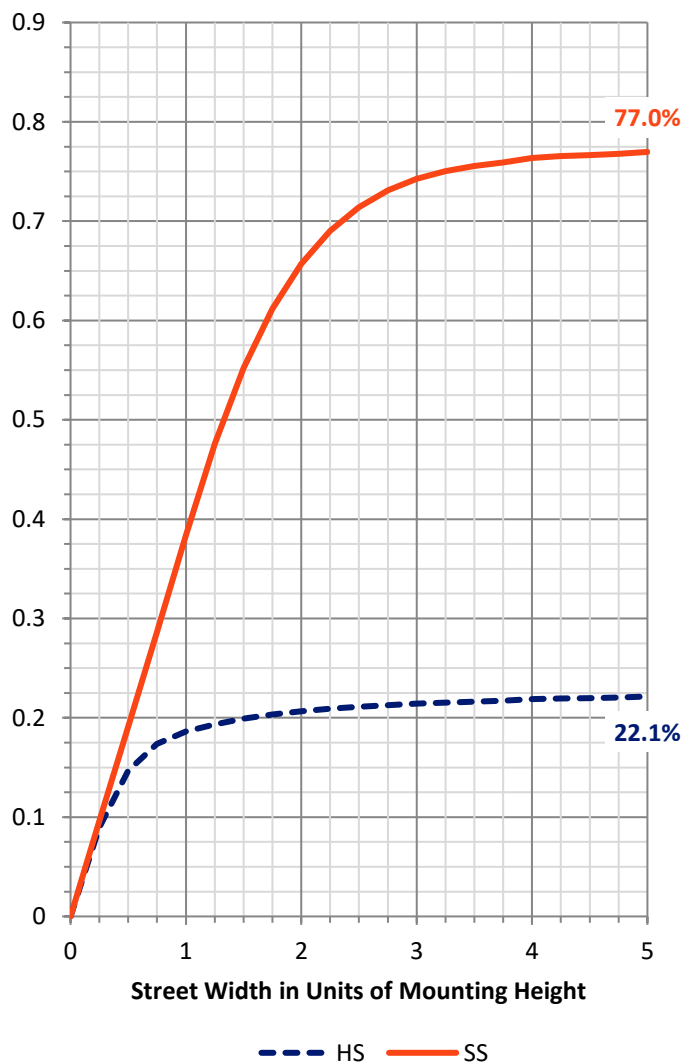
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7008.4	0.0	7008.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23894.6	0.0	23894.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	30903.0	0.0	30903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	1.0
10°-20°	997.2	3.2
20°-30°	1786.3	5.8
30°-40°	2687.1	8.7
40°-50°	4351.4	14.1
50°-60°	6550.2	21.2
60°-70°	7708.9	24.9
70°-80°	5466.3	17.7
80°-90°	1041.6	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°	30903.0	100.0
0°-180°	30903.0	100.0

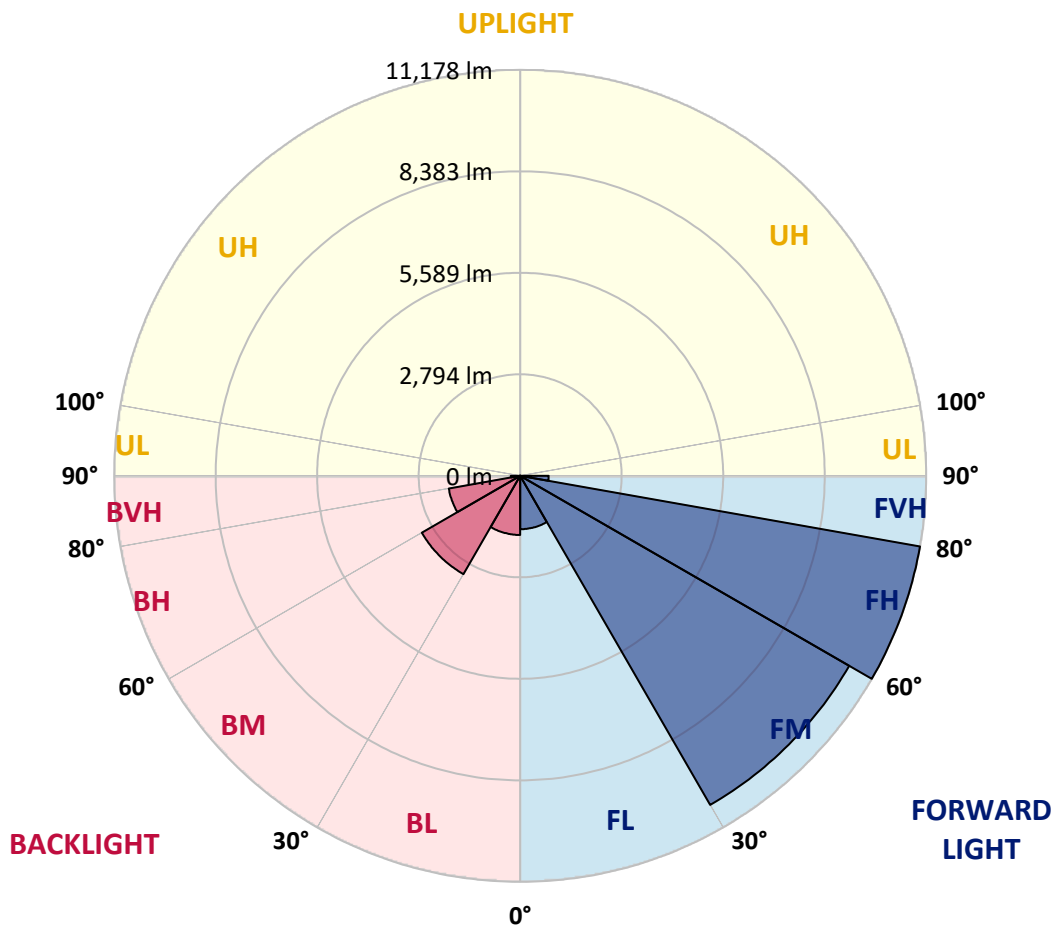


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.6	4.8			
FM (30°-60°)	10461.6	33.9			
FH (60°-80°)	11177.7	36.2			G4/12000
FVH (80°-90°)	785.7	2.5			G5
BL (0°-30°)	1627.9	5.3	B3/2500		
BM (30°-60°)	3127.1	10.1	B3/5000		
BH (60°-80°)	1997.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	255.9	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: P380930

CATALOG NUMBER: PRV-XL-PA4A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6
2.5°	3137.2	3120.9	3125.0	3125.0	3141.3	3149.5	3153.5	3165.8	3173.9	3194.3	3222.9
5°	2990.4	2978.1	2982.2	2986.3	3014.8	3043.4	3067.9	3084.2	3108.7	3141.3	3182.1
7.5°	2884.3	2876.1	2880.2	2888.4	2912.8	2945.5	2986.3	3010.8	3047.5	3108.7	3178.0
10°	2806.8	2806.8	2810.9	2827.2	2851.6	2892.4	2925.1	2953.6	3027.1	3137.2	3243.3
12.5°	2745.6	2745.6	2757.8	2790.5	2831.3	2872.0	2949.6	2982.2	3080.1	3231.1	3357.5
15°	2741.5	2745.6	2749.7	2778.2	2823.1	2912.8	3027.1	3076.0	3194.3	3373.8	3520.7
17.5°	2806.8	2810.9	2794.5	2802.7	2855.7	2982.2	3133.1	3190.3	3341.2	3537.0	3688.0
20°	3006.7	3006.7	2957.7	2912.8	2949.6	3088.3	3259.6	3316.7	3484.0	3700.2	3851.2
22.5°	3414.6	3435.0	3320.8	3222.9	3165.8	3243.3	3398.3	3459.5	3647.2	3879.7	4030.7
25°	3908.3	3928.7	3773.6	3634.9	3528.9	3516.6	3618.6	3683.9	3838.9	4079.6	4206.1
27.5°	4385.6	4348.9	4206.1	4075.5	3940.9	3830.8	3908.3	3965.4	4144.9	4328.5	4406.0
30°	4760.9	4732.3	4593.6	4499.8	4373.3	4230.6	4185.7	4246.9	4393.7	4565.1	4605.9
32.5°	5177.0	5156.6	5017.9	4895.5	4789.5	4654.8	4556.9	4585.5	4667.1	4789.5	4813.9
35°	5707.4	5752.3	5605.4	5356.5	5238.2	5107.7	5038.3	5046.5	5107.7	5185.2	5144.4
37.5°	6266.3	6319.3	6327.5	5935.8	5776.7	5658.4	5585.0	5613.5	5687.0	5740.0	5613.5
40°	7302.5	7249.5	7037.3	6747.7	6502.9	6388.7	6286.7	6282.6	6335.6	6429.5	6201.0
42.5°	8677.3	8628.4	8200.0	7824.7	7437.1	7306.6	7106.7	7021.0	7045.5	7163.8	6845.6
45°	9995.0	9974.6	9632.0	9195.4	8730.4	8477.4	8020.5	7812.5	7792.1	7885.9	7506.5
47.5°	11165.9	11076.1	10827.3	10488.7	10439.7	9778.8	8938.4	8656.9	8559.0	8612.1	8187.8
50°	12418.3	12112.4	11769.7	11561.6	11916.5	11300.5	9864.5	9570.8	9330.1	9366.8	8926.2
52.5°	13083.3	12569.3	12344.9	12406.1	12883.4	12646.8	10872.2	10513.2	10125.6	10178.6	9660.5
55°	12512.2	12508.1	12606.0	12985.4	13650.4	13377.0	11830.9	11427.0	11002.7	11015.0	10505.0
57.5°	11728.9	11888.0	12393.9	13230.2	14600.9	14144.0	12773.3	12344.9	11957.3	11896.1	11463.7
60°	11015.0	11190.4	11924.7	13189.4	14931.4	14845.7	13670.8	13295.5	12981.3	12801.8	12471.4
62.5°	9929.8	10060.3	11100.6	12928.3	14654.0	15351.6	14580.5	14323.5	14086.9	13715.7	13556.5
65°	8652.9	8697.7	9795.1	12067.5	14307.2	15547.4	15486.2	15372.0	15143.5	14596.8	14629.5
67.5°	7269.9	7359.6	8322.4	10692.7	13548.4	15457.6	16187.9	16281.7	16012.5	15192.5	15314.9
70°	5797.1	5907.3	6637.5	8791.6	12259.2	15070.1	16836.6	16987.5	16469.4	15388.3	15441.3
72.5°	3586.0	3692.0	4181.6	6107.2	9717.6	13768.7	17036.5	17232.3	16481.6	15127.2	14617.2
75°	1240.2	1252.4	1635.9	2929.2	5768.6	10394.8	16383.7	16844.7	15963.5	14176.6	12720.2
77.5°	567.1	587.5	726.2	1207.6	2557.9	5609.5	13528.0	14682.5	14388.8	12691.7	9791.1
80°	391.6	399.8	501.8	722.1	1476.8	1974.5	8538.6	10044.0	10558.0	9827.8	6274.4
82.5°	293.7	301.9	387.6	489.6	1064.8	958.7	3251.5	4667.1	5801.2	5695.1	2623.2
85°	281.5	277.4	301.9	326.4	709.9	571.1	1052.5	1444.2	2264.2	1937.8	660.9
87.5°	122.4	134.6	310.1	183.6	371.2	265.2	456.9	534.4	689.5	599.7	236.6
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: P380930
 CATALOG NUMBER: PRV-XL-PA4A-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6	3259.6
2.5°	3235.1	3243.3	3267.8	3304.5	3324.9	3365.7	3394.2	3410.6	3422.8	3426.9	3426.9
5°	3206.6	3222.9	3275.9	3337.1	3394.2	3479.9	3557.4	3602.3	3634.9	3647.2	3651.3
7.5°	3214.7	3255.5	3333.0	3422.8	3496.2	3606.4	3700.2	3790.0	3863.4	3891.9	3891.9
10°	3292.2	3349.4	3455.4	3573.7	3667.6	3781.8	3879.7	3957.2	4042.9	4091.9	4100.0
12.5°	3410.6	3479.9	3618.6	3749.2	3855.2	3945.0	4034.7	4091.9	4132.6	4169.4	4177.5
15°	3577.8	3663.5	3802.2	3936.8	4030.7	4087.8	4112.2	4112.2	4108.2	4112.2	4120.4
17.5°	3745.1	3826.7	3965.4	4100.0	4144.9	4112.2	4083.7	4075.5	4071.5	4063.3	4067.4
20°	3908.3	3985.8	4104.1	4206.1	4169.4	4055.1	4018.4	4014.3	4002.1	3993.9	3985.8
22.5°	4071.5	4128.6	4226.5	4263.2	4116.3	3953.1	3908.3	3883.8	3867.5	3847.1	3826.7
25°	4259.1	4275.4	4348.9	4291.8	3985.8	3765.5	3700.2	3663.5	3647.2	3626.8	3610.5
27.5°	4434.5	4434.5	4446.8	4246.9	3794.0	3516.6	3418.7	3353.4	3349.4	3345.3	3341.2
30°	4593.6	4573.2	4532.4	4112.2	3545.2	3210.7	3063.8	2998.5	3023.0	3043.4	3047.5
32.5°	4781.3	4740.5	4626.3	3928.7	3247.4	2868.0	2688.5	2659.9	2688.5	2712.9	2696.6
35°	5075.0	5001.6	4724.2	3716.5	2961.8	2553.8	2382.5	2341.7	2333.5	2329.5	2296.8
37.5°	5495.2	5368.8	4801.7	3488.1	2680.3	2276.4	2150.0	2064.3	1986.8	1905.2	1892.9
40°	6009.3	5793.0	4854.7	3227.0	2382.5	2043.9	1909.3	1799.1	1668.6	1525.8	1509.5
42.5°	6572.3	6250.0	4879.2	2937.3	2121.4	1852.1	1684.9	1546.2	1399.3	1289.2	1268.8
45°	7180.1	6743.6	4858.8	2659.9	1909.3	1689.0	1501.3	1350.4	1232.0	1154.5	1138.2
47.5°	7771.7	7310.7	4801.7	2439.6	1746.1	1550.3	1358.5	1219.8	1130.1	1044.4	1024.0
50°	8530.5	7853.3	4732.3	2268.3	1566.6	1411.5	1268.8	1121.9	1019.9	979.1	970.9
52.5°	9370.9	8395.8	4650.8	2052.0	1391.1	1301.4	1211.6	1081.1	1048.5	970.9	958.7
55°	10280.6	9040.4	4634.4	1778.7	1236.1	1223.9	1154.5	1117.8	1126.0	970.9	950.5
57.5°	11239.3	9729.9	4671.2	1505.4	1109.7	1154.5	1179.0	1150.5	1138.2	991.3	950.5
60°	12238.8	10394.8	4561.0	1252.4	1011.7	1097.4	1207.6	1134.1	1044.4	983.2	954.6
62.5°	13209.8	10953.8	4083.7	1072.9	938.3	1081.1	1191.2	1072.9	970.9	970.9	958.7
65°	13915.6	11202.6	3194.3	942.4	889.4	1060.7	1162.7	1032.1	950.5	979.1	962.8
67.5°	13997.1	10945.6	2145.9	840.4	848.6	1024.0	1097.4	995.4	930.2	1003.6	979.1
70°	13495.4	10276.5	1313.6	762.9	795.5	958.7	1040.3	958.7	901.6	983.2	946.5
72.5°	12194.0	9028.2	926.1	697.6	738.4	897.5	987.3	926.1	860.8	889.4	852.6
75°	10003.2	6996.5	734.3	636.4	681.3	840.4	942.4	877.1	811.8	799.6	775.1
77.5°	7086.3	4483.5	591.5	587.5	620.1	771.0	881.2	820.0	754.7	730.3	713.9
80°	4075.5	2198.9	510.0	530.3	563.0	701.7	807.8	754.7	693.5	656.8	632.3
82.5°	1558.4	767.0	448.8	461.0	497.7	628.3	734.3	689.5	628.3	660.9	554.8
85°	505.9	420.2	367.2	379.4	416.1	522.2	648.7	611.9	542.6	481.4	444.7
87.5°	224.4	228.5	195.8	216.2	261.1	346.8	473.2	448.8	395.7	330.4	318.2
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)