

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: P380882

Luminaire Tested: **PRV-XL-PA4A-750-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA4A-750-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

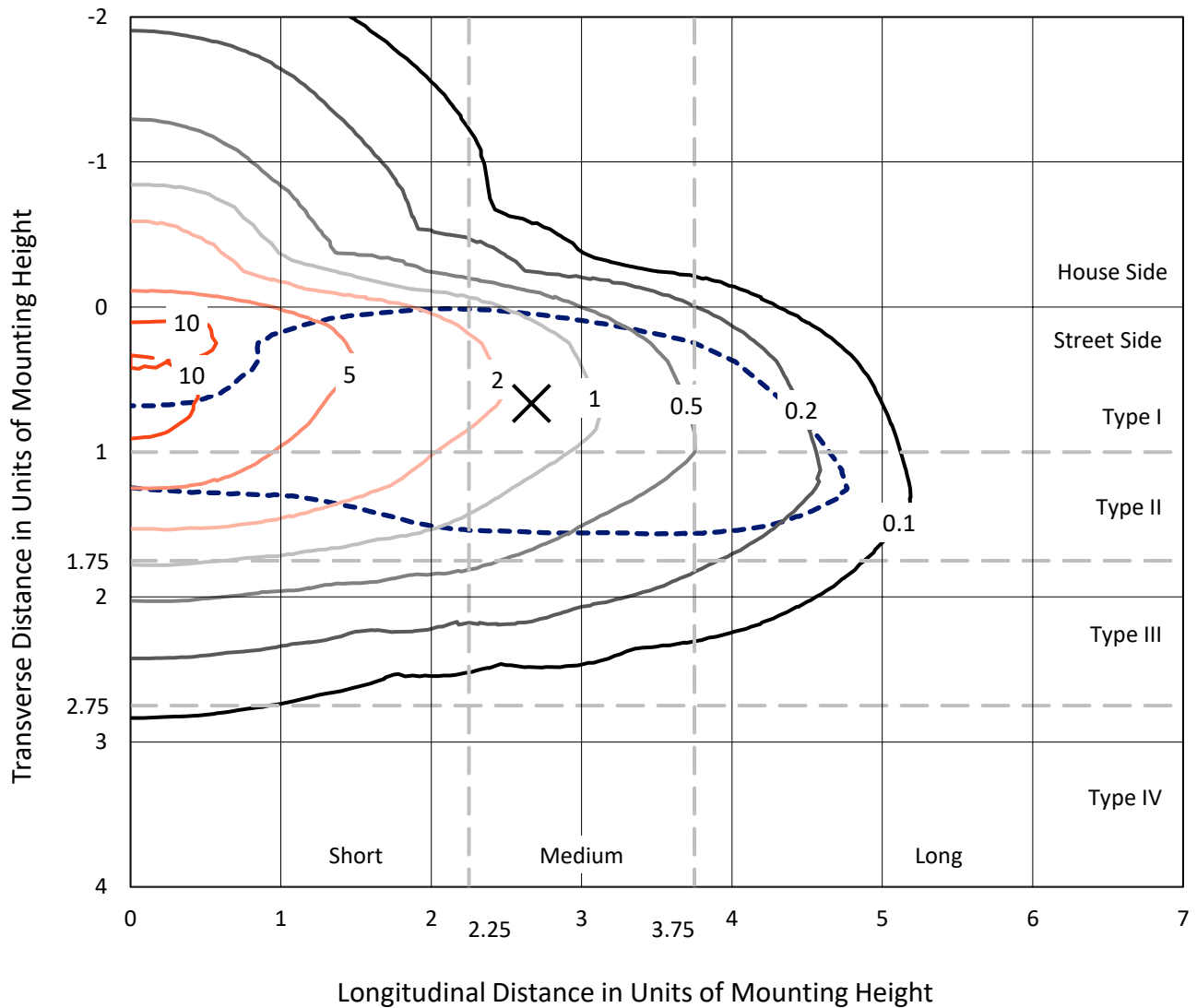
Lumens per Lamp: N/A  
Luminaire Lumens: 34067 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

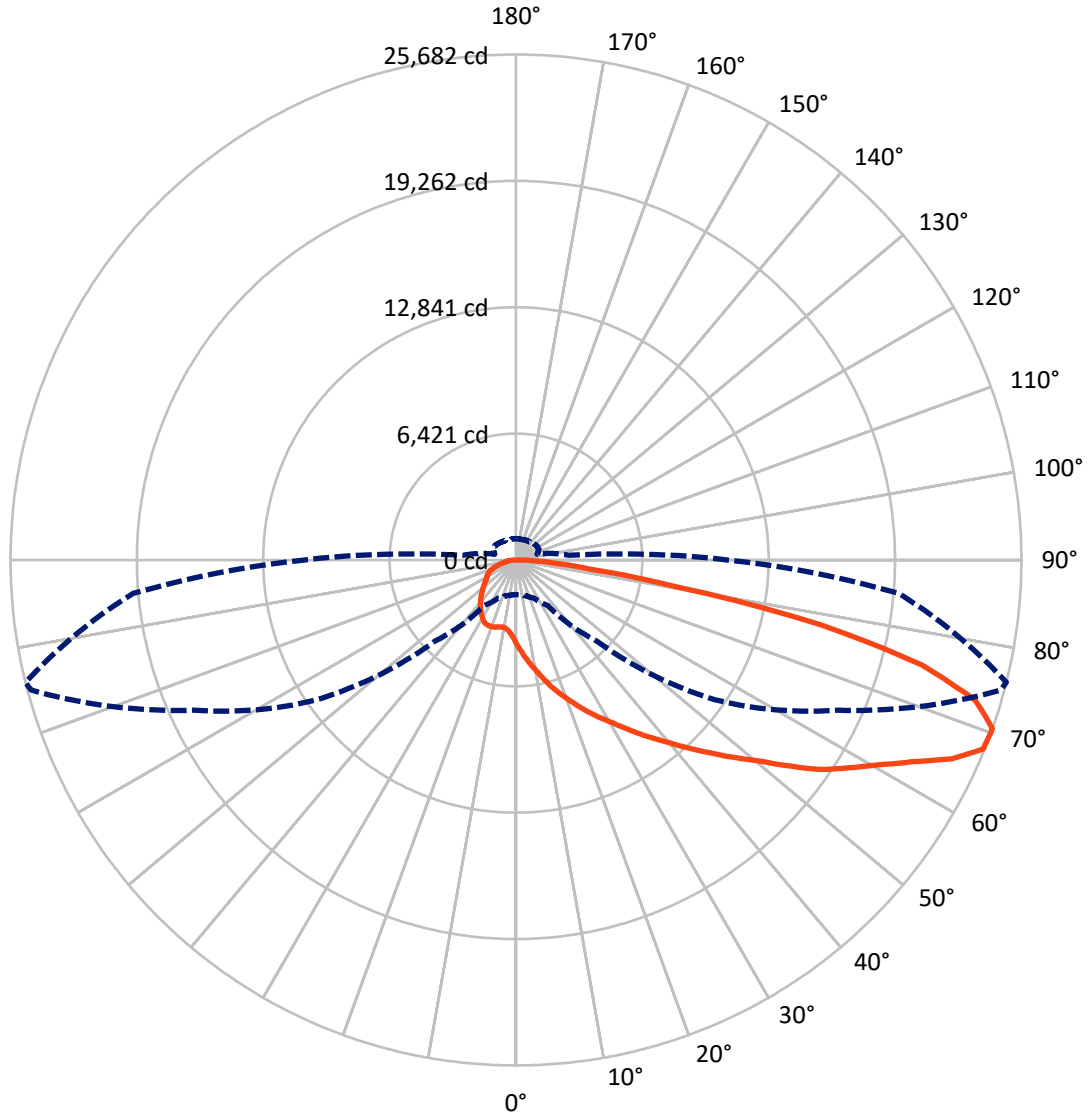
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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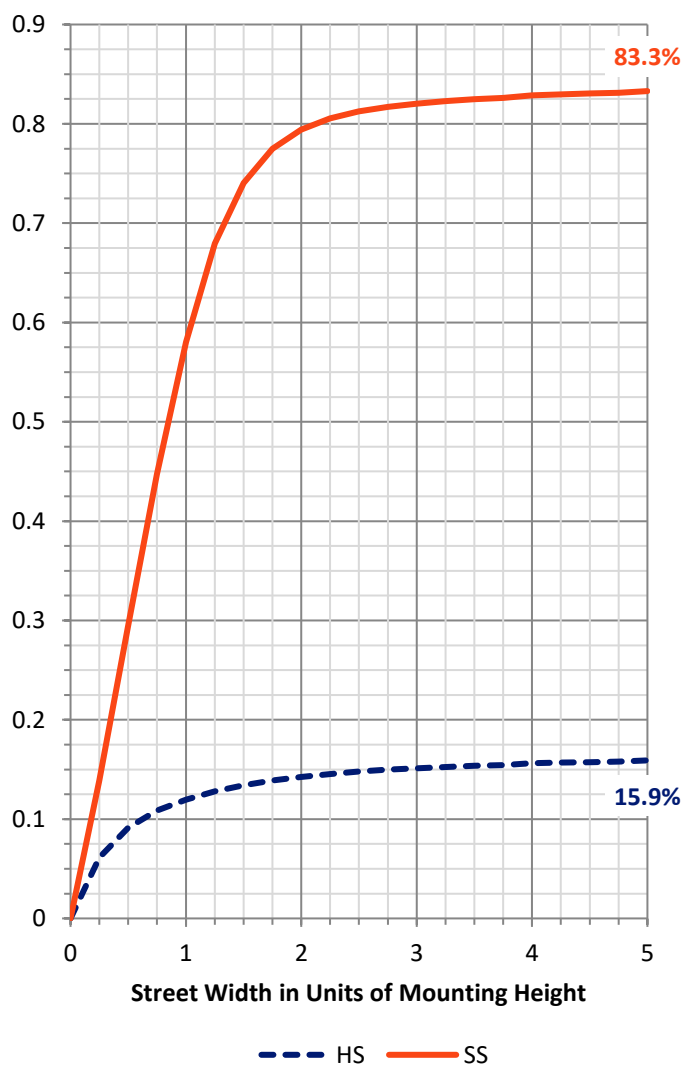
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5561.8	0.0	5561.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	28505.2	0.0	28505.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	34067.0	0.0	34067.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.7	1.3
10°-20°	1504.4	4.4
20°-30°	2691.6	7.9
30°-40°	4354.1	12.8
40°-50°	6298.9	18.5
50°-60°	7209.5	21.2
60°-70°	6631.9	19.5
70°-80°	4101.1	12.0
80°-90°	832.8	2.4
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°	34067.0	100.0
0°-180°	34067.0	100.0

**Coefficient of Utilization**



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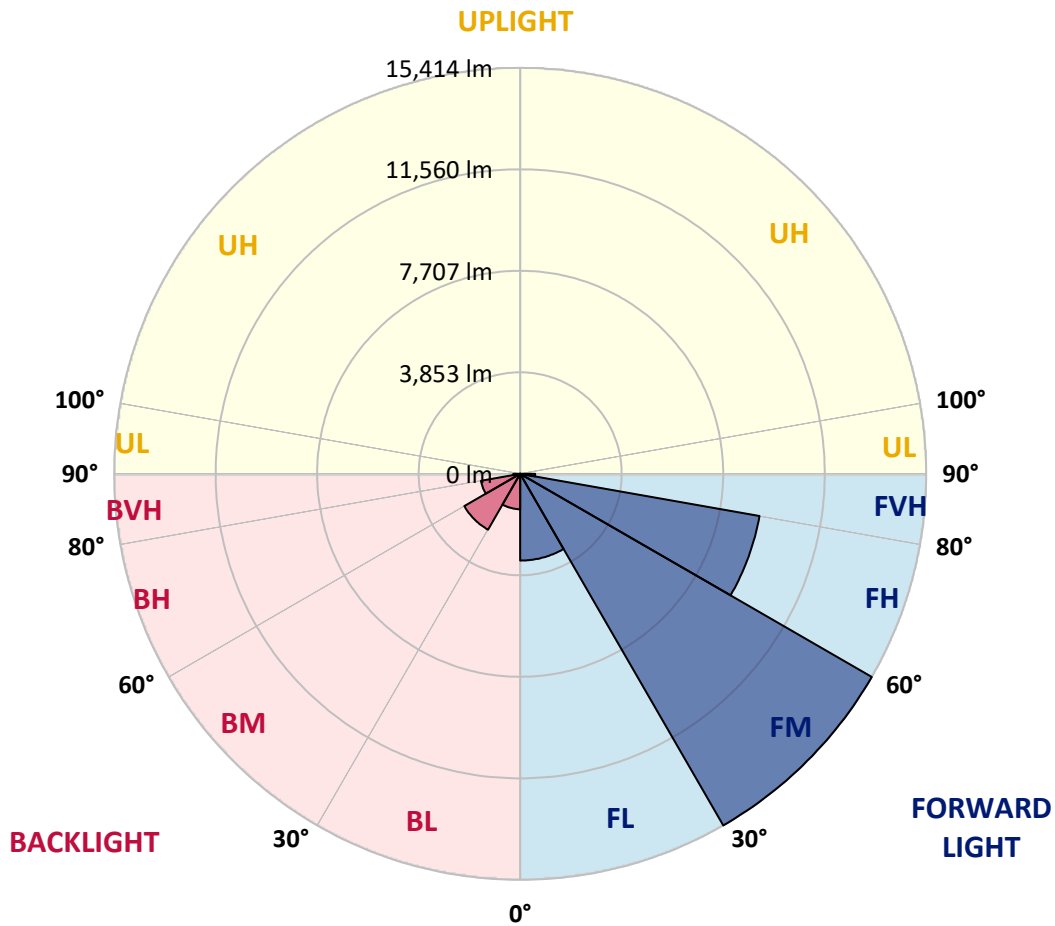
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3295.4	9.7			
FM (30°-60°)	15413.7	45.2			
FH (60°-80°)	9224.4	27.1			G4/12000
FVH (80°-90°)	571.7	1.7			G4/750
BL (0°-30°)	1343.3	3.9	B3/2500		
BM (30°-60°)	2448.8	7.2	B2/2500		
BH (60°-80°)	1508.5	4.4	B3/2500		G3/2500
BVH (80°-90°)	261.1	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2
2.5°	5429.4	5389.1	5384.6	5321.9	5263.7	5106.9	4994.9	4797.8	4600.7	4596.2	4399.1
5°	6276.1	6235.8	6213.4	6137.2	6038.7	5832.6	5631.0	5326.4	4990.4	4968.0	4596.2
7.5°	6849.5	6813.7	6768.9	6737.5	6643.4	6459.8	6213.4	5850.5	5389.1	5344.3	4824.7
10°	7234.8	7212.4	7203.4	7181.0	7122.8	6974.9	6737.5	6352.3	5787.8	5738.5	5066.6
12.5°	7400.5	7391.6	7431.9	7494.6	7517.0	7458.8	7230.3	6867.4	6226.8	6173.1	5357.8
15°	7207.9	7216.8	7319.9	7534.9	7763.4	7888.8	7754.4	7400.5	6724.1	6647.9	5698.2
17.5°	7118.3	7131.7	7203.4	7409.5	7732.0	8121.8	8184.5	7906.7	7203.4	7095.9	6056.6
20°	7275.1	7293.0	7346.8	7508.0	7732.0	8148.6	8475.7	8390.5	7673.8	7561.8	6401.5
22.5°	7673.8	7696.2	7691.7	7794.7	7947.0	8233.7	8636.9	8847.5	8166.5	8041.1	6759.9
25°	8524.9	8507.0	8354.7	8305.4	8345.7	8529.4	8851.9	9286.5	8681.7	8556.3	7136.2
27.5°	9680.7	9658.3	9380.6	9129.7	8905.7	8986.3	9156.6	9640.4	9205.8	9062.5	7494.6
30°	10917.1	10890.2	10567.7	10160.0	9662.8	9546.3	9523.9	9949.5	9734.5	9582.1	7875.4
32.5°	12122.2	12099.8	11754.8	11280.0	10594.6	10245.1	10030.1	10294.4	10334.7	10186.9	8292.0
35°	13219.7	13219.7	12924.0	12359.6	11584.6	11056.0	10702.1	10720.0	11024.6	10854.4	8766.8
37.5°	14196.3	14191.8	13869.2	13313.8	12570.1	11965.4	11526.3	11235.2	11683.1	11535.3	9264.1
40°	14971.3	14939.9	14702.5	14218.7	13470.6	12870.3	12426.8	11839.9	12417.8	12283.4	9792.7
42.5°	15535.7	15517.8	15356.5	14935.4	14223.1	13658.7	13354.1	12601.5	13251.0	13116.7	10410.9
45°	15755.2	15791.1	15791.1	15392.4	14827.9	14312.7	14178.3	13439.2	14151.5	14017.1	11073.9
47.5°	15401.3	15495.4	15688.0	15714.9	15217.6	14868.2	14913.0	14281.4	15078.8	15007.1	11799.6
50°	14294.8	14469.5	14890.6	15652.2	15374.4	15293.8	15540.2	15141.5	16073.3	16050.9	12682.1
52.5°	11441.2	11866.8	13179.4	14545.7	15266.9	15490.9	16162.9	16109.1	17354.5	17390.3	13833.4
55°	8775.8	8937.1	10455.7	12780.7	14608.4	15428.2	16579.5	17054.3	18743.2	18788.0	14890.6
57.5°	7095.9	7203.4	8032.2	10455.7	13107.7	15087.7	16906.5	17605.3	19809.4	19925.8	15831.4
60°	5622.1	5778.9	6334.3	8000.8	11006.7	14267.9	17135.0	18219.1	20956.2	21130.9	16955.8
62.5°	4179.6	4255.7	4779.9	5926.7	8713.1	12794.1	17014.0	18886.5	22362.8	22573.4	18308.7
65°	2974.5	3041.7	3413.6	4215.4	6441.9	10800.6	16310.7	19383.8	24127.8	24342.9	19670.5
67.5°	2226.4	2253.3	2463.9	2947.7	4340.9	8390.5	14886.1	19298.7	25418.0	25610.6	20217.0
70°	1760.5	1769.5	1872.5	2132.4	2822.2	5841.6	12390.9	18048.8	25512.1	25682.3	19527.1
72.5°	1460.4	1455.9	1514.1	1639.6	1966.6	3695.8	9179.0	15728.3	24302.5	24419.0	17600.9
75°	1205.0	1214.0	1254.3	1326.0	1500.7	2437.0	5949.1	12547.7	21440.0	21314.6	14769.7
77.5°	1012.4	1007.9	1025.9	1088.6	1214.0	1751.6	3485.2	9067.0	15889.6	15826.9	9694.1
80°	815.3	824.3	851.1	904.9	1021.4	1335.0	2060.7	5657.9	8524.9	8296.5	4632.0
82.5°	546.5	631.6	685.4	748.1	882.5	985.5	1308.1	2876.0	3812.3	3754.0	2101.0
85°	259.8	344.9	510.7	582.4	716.8	618.2	887.0	1370.8	1908.4	1886.0	757.1
87.5°	53.8	53.8	273.3	327.0	443.5	264.3	492.8	595.8	922.8	864.6	309.1
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°	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2	4260.2
2.5°	4282.6	4161.7	3919.8	3727.1	3530.0	3418.0	3279.2	3212.0	3198.5	3162.7	3189.6
5°	4358.8	4121.4	3664.4	3364.3	3162.7	3064.1	3014.9	2996.9	2992.5	2983.5	2983.5
7.5°	4461.8	4099.0	3503.1	3198.5	3068.6	3037.3	3050.7	3077.6	3082.1	3091.0	3086.5
10°	4587.2	4103.4	3413.6	3158.2	3095.5	3100.0	3144.8	3180.6	3198.5	3212.0	3207.5
12.5°	4762.0	4157.2	3400.1	3185.1	3158.2	3176.1	3220.9	3256.8	3274.7	3279.2	3279.2
15°	4990.4	4269.2	3431.5	3243.3	3220.9	3234.4	3261.2	3274.7	3279.2	3274.7	3274.7
17.5°	5241.3	4403.6	3476.3	3279.2	3243.3	3229.9	3220.9	3207.5	3180.6	3162.7	3162.7
20°	5483.2	4524.5	3498.7	3274.7	3212.0	3158.2	3104.5	3037.3	2992.5	2956.6	2956.6
22.5°	5725.1	4636.5	3498.7	3225.4	3126.9	3023.8	2911.8	2804.3	2737.1	2692.3	2692.3
25°	5980.4	4744.0	3471.8	3140.3	2992.5	2844.6	2692.3	2557.9	2490.7	2445.9	2437.0
27.5°	6195.5	4806.8	3400.1	3019.3	2826.7	2638.6	2463.9	2325.0	2275.7	2235.4	2235.4
30°	6423.9	4847.1	3265.7	2862.5	2638.6	2423.5	2244.3	2132.4	2078.6	2020.4	2015.9
32.5°	6679.3	4873.9	3113.4	2696.8	2445.9	2217.5	2065.2	1975.6	1859.1	1796.4	1787.4
35°	6974.9	4909.8	2952.1	2508.6	2253.3	2047.2	1957.6	1809.8	1697.8	1644.1	1639.6
37.5°	7288.5	4936.7	2777.4	2342.9	2078.6	1935.2	1845.6	1670.9	1572.4	1491.8	1482.8
40°	7620.0	4936.7	2598.2	2181.6	1939.7	1886.0	1715.7	1558.9	1393.2	1352.9	1343.9
42.5°	7987.4	4927.7	2419.1	2024.8	1809.8	1774.0	1639.6	1473.8	1388.7	1352.9	1343.9
45°	8377.1	4896.3	2248.8	1845.6	1675.4	1603.7	1500.7	1455.9	1420.1	1420.1	1420.1
47.5°	8820.6	4869.5	2056.2	1684.4	1576.9	1496.2	1420.1	1393.2	1388.7	1402.2	1415.6
50°	9389.5	4860.5	1894.9	1567.9	1500.7	1406.6	1397.7	1375.3	1379.8	1379.8	1379.8
52.5°	10079.4	4779.9	1742.6	1482.8	1424.6	1312.6	1339.4	1361.8	1370.8	1366.3	1361.8
55°	10585.6	4636.5	1612.7	1424.6	1370.8	1276.7	1312.6	1348.4	1357.4	1343.9	1343.9
57.5°	11042.5	4434.9	1509.7	1379.8	1335.0	1254.3	1294.6	1330.5	1321.5	1317.0	1312.6
60°	11566.7	4242.3	1429.0	1357.4	1299.1	1245.4	1281.2	1303.6	1290.2	1281.2	1276.7
62.5°	12135.6	4054.2	1370.8	1357.4	1272.2	1240.9	1267.8	1276.7	1249.8	1240.9	1240.9
65°	12399.9	3758.5	1308.1	1357.4	1258.8	1231.9	1240.9	1231.9	1205.0	1205.0	1200.6
67.5°	11965.4	3270.2	1227.4	1339.4	1276.7	1218.5	1200.6	1187.1	1155.8	1155.8	1146.8
70°	10764.8	2687.8	1111.0	1281.2	1281.2	1214.0	1146.8	1115.5	1079.6	1093.1	1075.1
72.5°	9196.9	2132.4	967.6	1182.6	1254.3	1209.5	1088.6	1039.3	1007.9	1021.4	994.5
75°	7449.8	1653.0	797.4	1025.9	1187.1	1187.1	1030.3	963.1	927.3	927.3	895.9
77.5°	4748.5	1223.0	649.6	851.1	1066.2	1155.8	981.1	878.0	824.3	810.8	788.4
80°	2351.9	860.1	533.1	676.4	909.4	1084.1	945.2	779.5	703.3	676.4	636.1
82.5°	1249.8	595.8	425.6	528.6	725.7	976.6	900.4	672.0	577.9	537.6	492.8
85°	560.0	367.3	340.5	403.2	551.0	801.9	810.8	551.0	443.5	528.6	389.7
87.5°	206.1	165.8	165.8	206.1	318.1	336.0	573.4	353.9	282.2	192.6	152.3
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)