

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: P380866

Luminaire Tested: **PRV-XL-PA4A-730-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380866  
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-730-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 31025 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

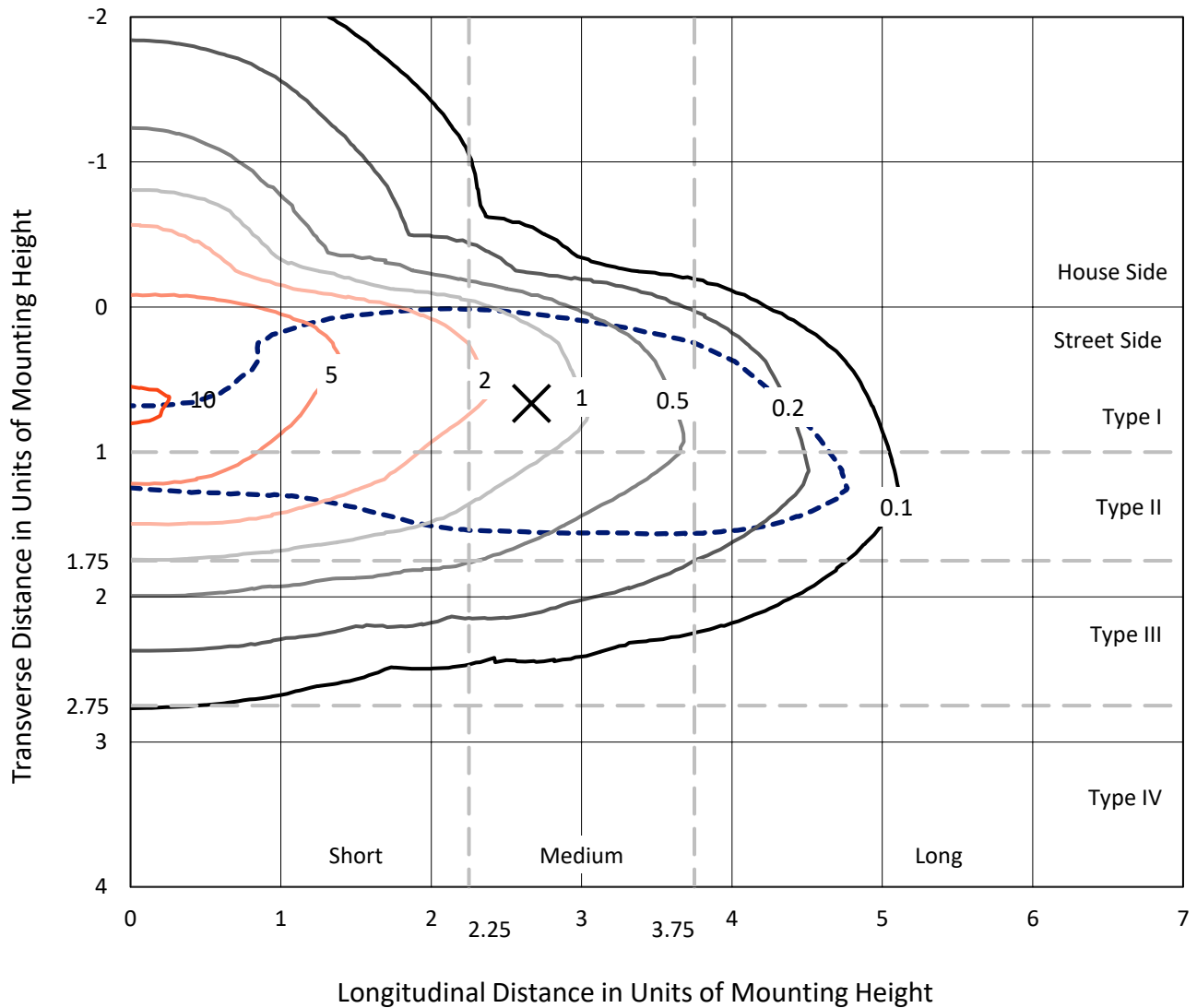
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P380866  
 CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

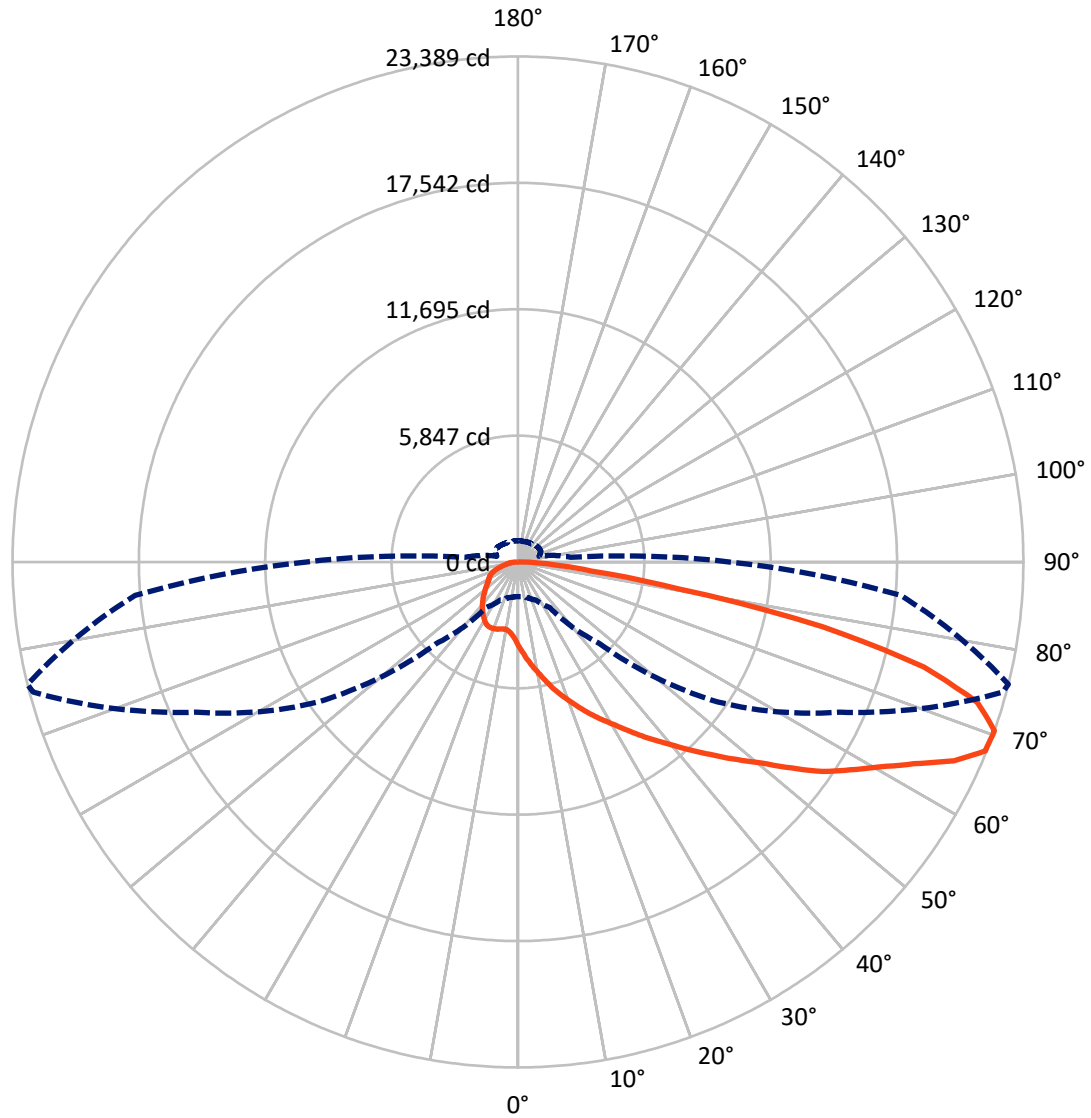
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P380866  
CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P380866

CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

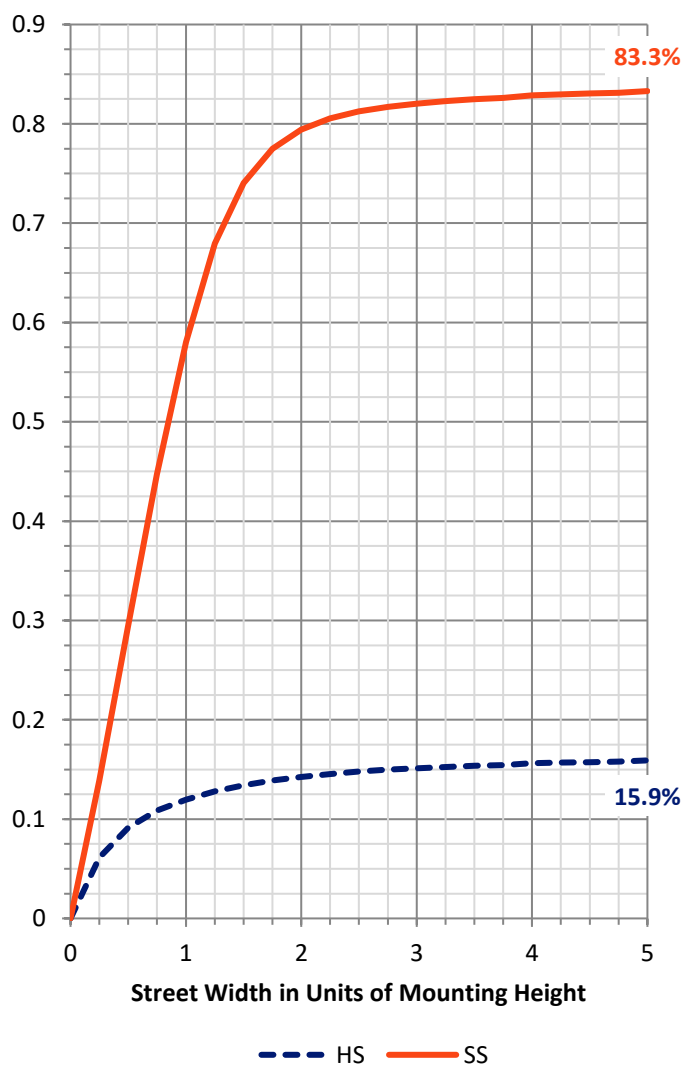
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5065.1	0.0	5065.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	25959.9	0.0	25959.9
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	31025.0	0.0	31025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	1.3
10°-20°	1370.1	4.4
20°-30°	2451.3	7.9
30°-40°	3965.3	12.8
40°-50°	5736.4	18.5
50°-60°	6565.7	21.2
60°-70°	6039.7	19.5
70°-80°	3734.9	12.0
80°-90°	758.4	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°	31025.0	100.0
0°-180°	31025.0	100.0

**Coefficient of Utilization**



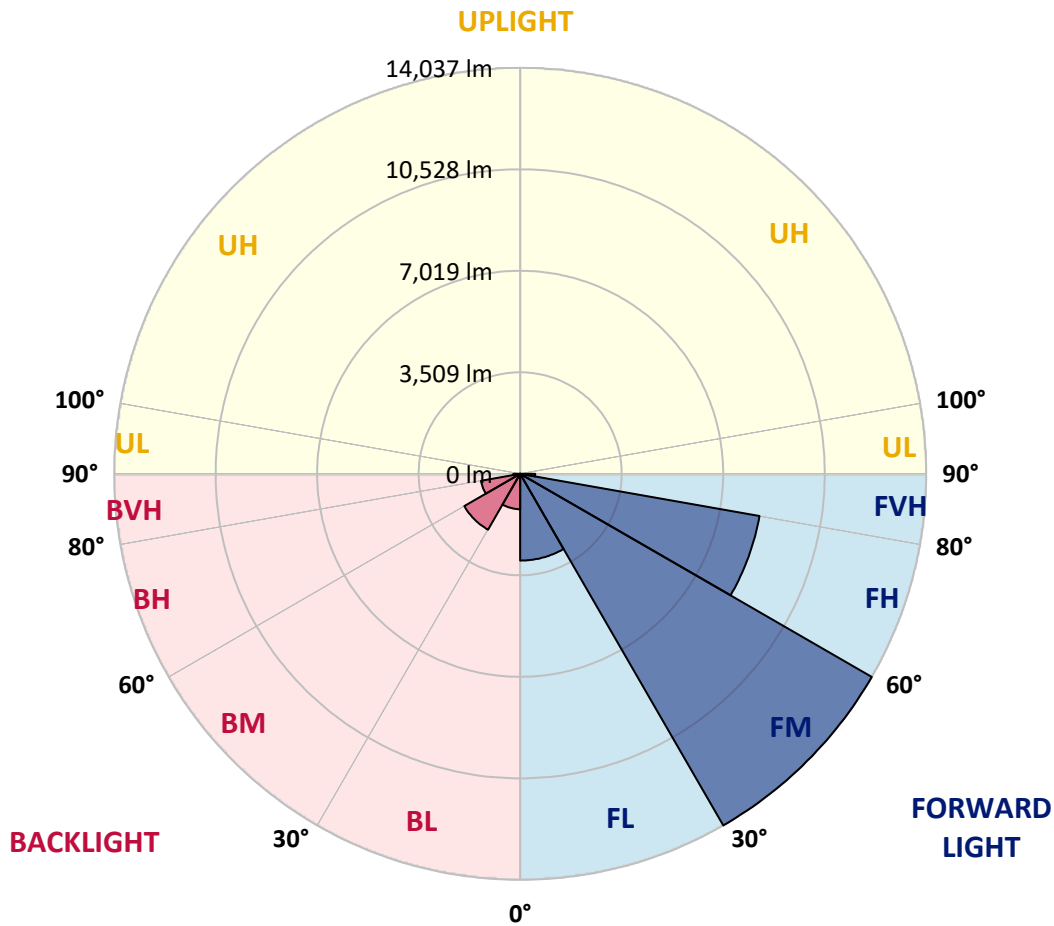
REPORT NUMBER: P380866  
 CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.1	9.7			
FM (30°-60°)	14037.3	45.2			
FH (60°-80°)	8400.7	27.1			G4/12000
FVH (80°-90°)	520.7	1.7			G4/750
BL (0°-30°)	1223.4	3.9	B3/2500		
BM (30°-60°)	2230.1	7.2	B2/2500		
BH (60°-80°)	1373.8	4.4	B3/2500		G3/2500
BVH (80°-90°)	237.8	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-G4**

Type II Medium





REPORT NUMBER: P380866

CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	4944.6	4907.9	4903.8	4846.7	4793.7	4650.9	4548.9	4369.4	4189.9	4185.8	4006.3
5°	5715.7	5679.0	5658.6	5589.2	5499.5	5311.8	5128.2	4850.8	4544.8	4524.4	4185.8
7.5°	6237.9	6205.2	6164.4	6135.9	6050.2	5882.9	5658.6	5328.1	4907.9	4867.1	4393.9
10°	6588.7	6568.3	6560.2	6539.8	6486.7	6352.1	6135.9	5785.0	5271.0	5226.1	4614.2
12.5°	6739.7	6731.5	6768.2	6825.4	6845.8	6792.7	6584.7	6254.2	5670.8	5621.8	4879.3
15°	6564.3	6572.4	6666.3	6862.1	7070.1	7184.4	7062.0	6739.7	6123.7	6054.3	5189.4
17.5°	6482.7	6494.9	6560.2	6747.8	7041.6	7396.5	7453.6	7200.7	6560.2	6462.3	5515.8
20°	6625.5	6641.8	6690.7	6837.6	7041.6	7421.0	7718.8	7641.3	6988.6	6886.6	5829.9
22.5°	6988.6	7009.0	7004.9	7098.7	7237.4	7498.5	7865.7	8057.4	7437.3	7323.1	6156.3
25°	7763.7	7747.4	7608.7	7563.8	7600.5	7767.8	8061.5	8457.2	7906.5	7792.3	6499.0
27.5°	8816.3	8795.9	8542.9	8314.5	8110.5	8183.9	8338.9	8779.5	8383.8	8253.3	6825.4
30°	9942.3	9917.8	9624.0	9252.8	8799.9	8693.9	8673.5	9061.0	8865.2	8726.5	7172.1
32.5°	11039.7	11019.3	10705.2	10272.7	9648.5	9330.3	9134.5	9375.2	9411.9	9277.3	7551.6
35°	12039.2	12039.2	11770.0	11255.9	10550.1	10068.7	9746.4	9762.8	10040.2	9885.1	7984.0
37.5°	12928.6	12924.5	12630.8	12124.9	11447.7	10896.9	10497.1	10231.9	10639.9	10505.3	8436.9
40°	13634.4	13605.8	13389.6	12949.0	12267.7	11721.0	11317.1	10782.7	11309.0	11186.6	8918.3
42.5°	14148.5	14132.1	13985.3	13601.8	12953.1	12439.1	12161.6	11476.2	12067.8	11945.4	9481.3
45°	14348.4	14381.0	14381.0	14017.9	13503.9	13034.7	12912.3	12239.1	12887.8	12765.4	10085.1
47.5°	14026.1	14111.7	14287.2	14311.6	13858.8	13540.6	13581.4	13006.1	13732.3	13667.0	10746.0
50°	13018.4	13177.5	13561.0	14254.5	14001.6	13928.1	14152.5	13789.4	14638.0	14617.6	11549.7
52.5°	10419.6	10807.2	12002.5	13246.8	13903.7	14107.7	14719.6	14670.7	15804.8	15837.5	12598.2
55°	7992.2	8139.0	9522.1	11639.4	13304.0	14050.5	15099.0	15531.5	17069.5	17110.3	13561.0
57.5°	6462.3	6560.2	7314.9	9522.1	11937.2	13740.5	15396.8	16033.3	18040.5	18146.6	14417.7
60°	5120.0	5262.8	5768.7	7286.4	10023.9	12993.9	15604.9	16592.2	19084.9	19244.0	15441.7
62.5°	3806.4	3875.7	4353.1	5397.5	7935.0	11651.7	15494.8	17200.1	20365.9	20557.7	16673.8
65°	2708.9	2770.1	3108.7	3839.0	5866.6	9836.2	14854.2	17652.9	21973.3	22169.2	17914.0
67.5°	2027.6	2052.1	2243.8	2684.5	3953.2	7641.3	13556.9	17575.4	23148.3	23323.7	18411.8
70°	1603.3	1611.5	1705.3	1941.9	2570.2	5319.9	11284.5	16437.2	23234.0	23389.0	17783.5
72.5°	1330.0	1325.9	1378.9	1493.2	1791.0	3365.8	8359.3	14323.9	22132.5	22238.5	16029.2
75°	1097.4	1105.6	1142.3	1207.6	1366.7	2219.4	5417.9	11427.3	19525.5	19411.3	13450.8
77.5°	922.0	917.9	934.3	991.4	1105.6	1595.2	3174.0	8257.3	14470.7	14413.6	8828.5
80°	742.5	750.7	775.1	824.1	930.2	1215.8	1876.7	5152.7	7763.7	7555.6	4218.4
82.5°	497.7	575.2	624.2	681.3	803.7	897.5	1191.3	2619.2	3471.8	3418.8	1913.4
85°	236.6	314.1	465.1	530.4	652.8	563.0	807.8	1248.4	1738.0	1717.6	689.5
87.5°	49.0	49.0	248.9	297.8	403.9	240.7	448.8	542.6	840.4	787.4	281.5
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: P380866  
 CATALOG NUMBER: PRV-XL-PA4A-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	3900.2	3790.1	3569.8	3394.3	3214.8	3112.8	2986.4	2925.2	2912.9	2880.3	2904.8
5°	3969.6	3753.3	3337.2	3063.9	2880.3	2790.5	2745.6	2729.3	2725.2	2717.1	2717.1
7.5°	4063.4	3732.9	3190.3	2912.9	2794.6	2766.0	2778.3	2802.8	2806.8	2815.0	2810.9
10°	4177.6	3737.0	3108.7	2876.2	2819.1	2823.2	2864.0	2896.6	2912.9	2925.2	2921.1
12.5°	4336.7	3786.0	3096.5	2900.7	2876.2	2892.5	2933.3	2966.0	2982.3	2986.4	2986.4
15°	4544.8	3888.0	3125.1	2953.7	2933.3	2945.6	2970.0	2982.3	2986.4	2982.3	2982.3
17.5°	4773.3	4010.4	3165.9	2986.4	2953.7	2941.5	2933.3	2921.1	2896.6	2880.3	2880.3
20°	4993.6	4120.5	3186.3	2982.3	2925.2	2876.2	2827.2	2766.0	2725.2	2692.6	2692.6
22.5°	5213.9	4222.5	3186.3	2937.4	2847.6	2753.8	2651.8	2553.9	2492.7	2451.9	2451.9
25°	5446.4	4320.4	3161.8	2859.9	2725.2	2590.6	2451.9	2329.5	2268.3	2227.5	2219.4
27.5°	5642.2	4377.5	3096.5	2749.7	2574.3	2403.0	2243.8	2117.4	2072.5	2035.8	2035.8
30°	5850.3	4414.3	2974.1	2606.9	2403.0	2207.1	2043.9	1941.9	1893.0	1840.0	1835.9
32.5°	6082.9	4438.7	2835.4	2456.0	2227.5	2019.5	1880.7	1799.2	1693.1	1636.0	1627.8
35°	6352.1	4471.4	2688.5	2284.6	2052.1	1864.4	1782.8	1648.2	1546.2	1497.3	1493.2
37.5°	6637.7	4495.8	2529.4	2133.7	1893.0	1762.4	1680.8	1521.7	1432.0	1358.5	1350.4
40°	6939.6	4495.8	2366.2	1986.8	1766.5	1717.6	1562.5	1419.7	1268.8	1232.1	1223.9
42.5°	7274.1	4487.7	2203.0	1844.0	1648.2	1615.6	1493.2	1342.2	1264.7	1232.1	1223.9
45°	7629.1	4459.1	2048.0	1680.8	1525.8	1460.5	1366.7	1325.9	1293.3	1293.3	1293.3
47.5°	8033.0	4434.7	1872.6	1534.0	1436.1	1362.6	1293.3	1268.8	1264.7	1277.0	1289.2
50°	8551.1	4426.5	1725.7	1427.9	1366.7	1281.0	1272.9	1252.5	1256.6	1256.6	1256.6
52.5°	9179.4	4353.1	1587.0	1350.4	1297.3	1195.4	1219.8	1240.2	1248.4	1244.3	1240.2
55°	9640.4	4222.5	1468.7	1297.3	1248.4	1162.7	1195.4	1228.0	1236.2	1223.9	1223.9
57.5°	10056.5	4038.9	1374.9	1256.6	1215.8	1142.3	1179.0	1211.7	1203.5	1199.4	1195.4
60°	10533.8	3863.5	1301.4	1236.2	1183.1	1134.2	1166.8	1187.2	1175.0	1166.8	1162.7
62.5°	11051.9	3692.1	1248.4	1236.2	1158.6	1130.1	1154.6	1162.7	1138.2	1130.1	1130.1
65°	11292.7	3422.9	1191.3	1236.2	1146.4	1121.9	1130.1	1121.9	1097.4	1097.4	1093.4
67.5°	10896.9	2978.2	1117.8	1219.8	1162.7	1109.7	1093.4	1081.1	1052.6	1052.6	1044.4
70°	9803.6	2447.8	1011.8	1166.8	1166.8	1105.6	1044.4	1015.8	983.2	995.5	979.1
72.5°	8375.7	1941.9	881.2	1077.0	1142.3	1101.5	991.4	946.5	917.9	930.2	905.7
75°	6784.6	1505.4	726.2	934.3	1081.1	1081.1	938.3	877.1	844.5	844.5	815.9
77.5°	4324.5	1113.8	591.6	775.1	971.0	1052.6	893.5	799.6	750.7	738.4	718.0
80°	2141.9	783.3	485.5	616.0	828.2	987.3	860.8	709.9	640.5	616.0	579.3
82.5°	1138.2	542.6	387.6	481.4	660.9	889.4	820.0	612.0	526.3	489.6	448.8
85°	510.0	334.5	310.1	367.2	501.8	730.3	738.4	501.8	403.9	481.4	354.9
87.5°	187.7	150.9	150.9	187.7	289.7	306.0	522.2	322.3	257.0	175.4	138.7
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)