

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: P380872

Luminaire Tested: **PRV-XL-PA3A-740-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380872  
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-PA3A-740-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24718 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

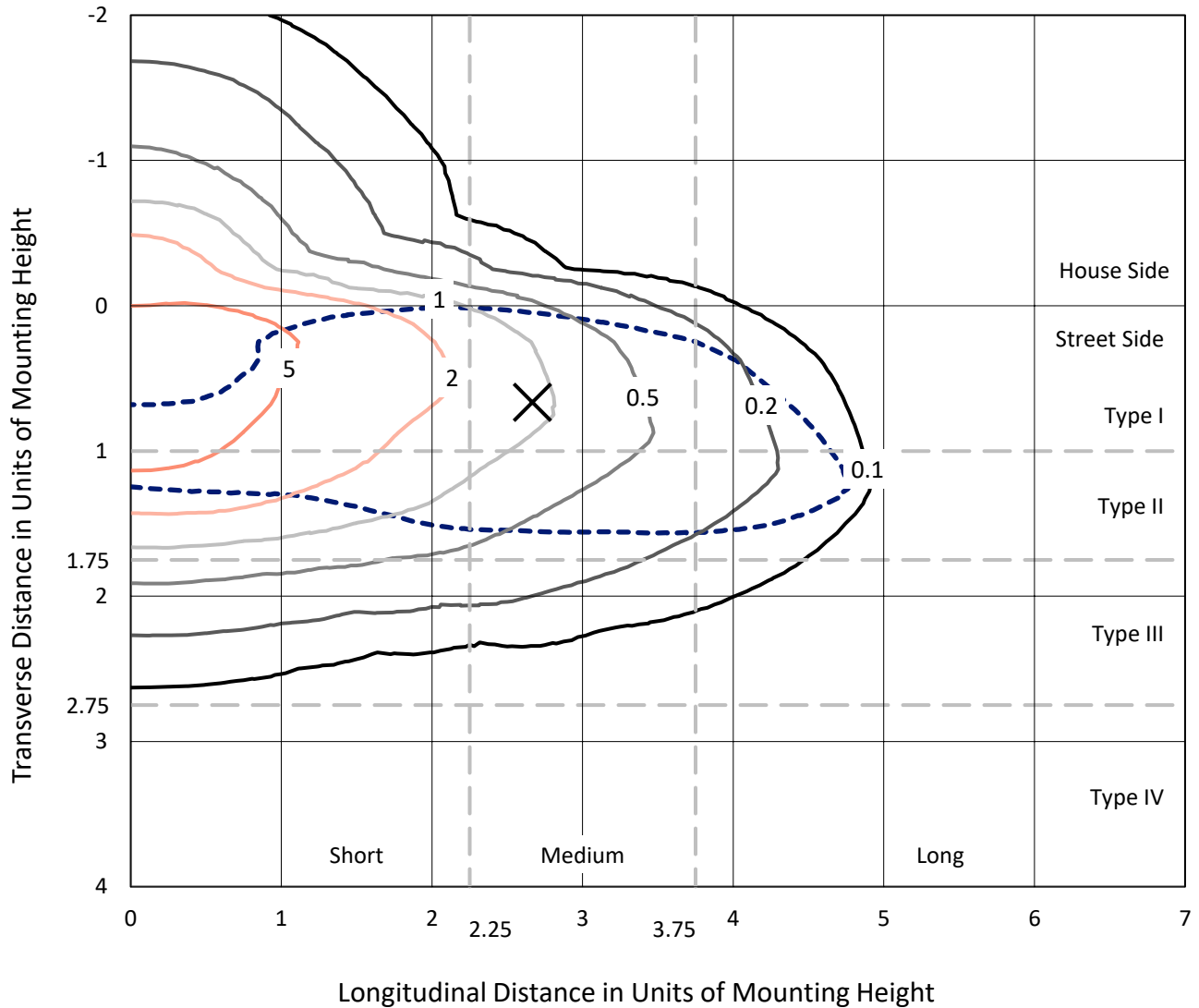
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

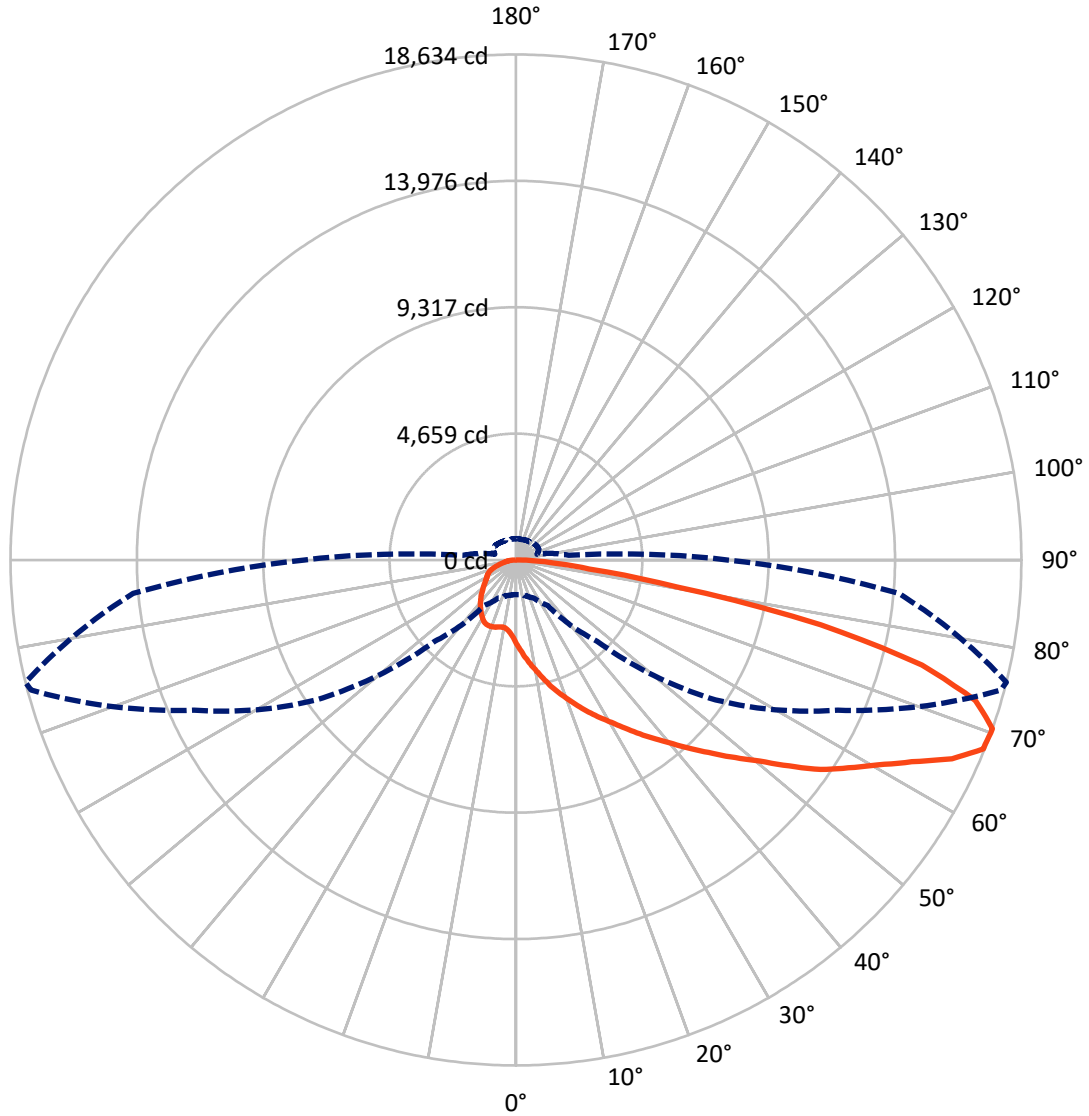
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - 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	4035.5	0.0	4035.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20682.5	0.0	20682.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	24718.0	0.0	24718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.2	1.3
10°-20°	1091.6	4.4
20°-30°	1953.0	7.9
30°-40°	3159.2	12.8
40°-50°	4570.3	18.5
50°-60°	5231.0	21.2
60°-70°	4811.9	19.5
70°-80°	2975.6	12.0
80°-90°	604.2	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°	24718.0	100.0
0°-180°	24718.0	100.0

**Coefficient of Utilization**



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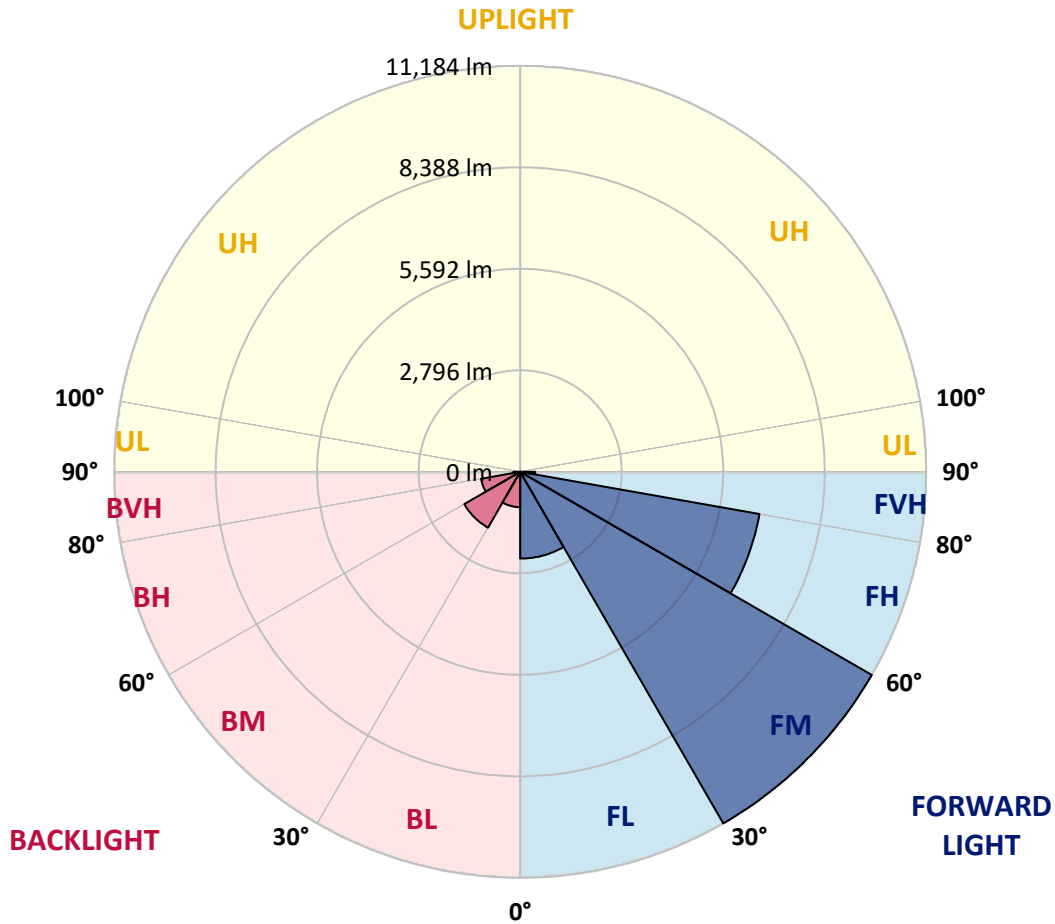
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.0	9.7			
FM (30°-60°)	11183.7	45.2			
FH (60°-80°)	6693.0	27.1			G3/7500
FVH (80°-90°)	414.8	1.7			G3/500
BL (0°-30°)	974.7	3.9	B2/1000		
BM (30°-60°)	1776.8	7.2	B2/2500		
BH (60°-80°)	1094.6	4.4	B3/2500		G3/2500
BVH (80°-90°)	189.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1
2.5°	3939.4	3910.2	3906.9	3861.4	3819.2	3705.4	3624.2	3481.1	3338.1	3334.9	3191.9
5°	4553.8	4524.5	4508.2	4453.0	4381.5	4232.0	4085.7	3864.7	3620.9	3604.6	3334.9
7.5°	4969.8	4943.8	4911.3	4888.5	4820.3	4687.0	4508.2	4245.0	3910.2	3877.7	3500.6
10°	5249.3	5233.1	5226.6	5210.3	5168.1	5060.8	4888.5	4609.0	4199.5	4163.7	3676.2
12.5°	5369.6	5363.1	5392.3	5437.9	5454.1	5411.8	5246.1	4982.8	4518.0	4479.0	3887.4
15°	5229.8	5236.3	5311.1	5467.1	5632.9	5723.9	5626.4	5369.6	4878.8	4823.5	4134.5
17.5°	5164.8	5174.6	5226.6	5376.1	5610.1	5892.9	5938.4	5736.9	5226.6	5148.6	4394.5
20°	5278.6	5291.6	5330.6	5447.6	5610.1	5912.4	6149.7	6087.9	5567.9	5486.6	4644.8
22.5°	5567.9	5584.1	5580.9	5655.6	5766.1	5974.2	6266.7	6419.5	5925.4	5834.4	4904.8
25°	6185.4	6172.4	6061.9	6026.2	6055.4	6188.7	6422.7	6738.0	6299.2	6208.2	5177.8
27.5°	7024.0	7007.8	6806.3	6624.2	6461.7	6520.2	6643.7	6994.8	6679.5	6575.5	5437.9
30°	7921.1	7901.6	7667.6	7371.8	7011.0	6926.5	6910.3	7219.0	7063.0	6952.5	5714.1
32.5°	8795.5	8779.2	8528.9	8184.4	7687.1	7433.6	7277.6	7469.3	7498.6	7391.3	6016.4
35°	9591.8	9591.8	9377.3	8967.7	8405.4	8021.9	7765.1	7778.1	7999.1	7875.6	6361.0
37.5°	10300.4	10297.1	10063.1	9660.1	9120.5	8681.7	8363.2	8151.9	8476.9	8369.7	6721.7
40°	10862.7	10839.9	10667.7	10316.6	9773.8	9338.3	9016.5	8590.7	9010.0	8912.5	7105.3
42.5°	11272.2	11259.2	11142.2	10836.7	10319.9	9910.3	9689.3	9143.3	9614.6	9517.1	7553.8
45°	11431.5	11457.5	11457.5	11168.2	10758.7	10384.9	10287.4	9751.1	10267.9	10170.4	8034.9
47.5°	11174.7	11243.0	11382.8	11402.3	11041.5	10787.9	10820.4	10362.1	10940.7	10888.7	8561.4
50°	10371.9	10498.7	10804.2	11356.8	11155.2	11096.7	11275.5	10986.2	11662.3	11646.0	9201.8
52.5°	8301.4	8610.2	9562.6	10553.9	11077.2	11239.7	11727.3	11688.3	12591.9	12617.9	10037.1
55°	6367.5	6484.5	7586.3	9273.3	10599.4	11194.2	12029.6	12374.1	13599.5	13632.0	10804.2
57.5°	5148.6	5226.6	5827.9	7586.3	9510.6	10947.2	12266.9	12773.9	14373.1	14457.6	11486.8
60°	4079.2	4193.0	4596.0	5805.1	7986.1	10352.4	12432.6	13219.2	15205.2	15331.9	12302.6
62.5°	3032.6	3087.8	3468.1	4300.2	6321.9	9283.0	12344.9	13703.5	16225.8	16378.6	13284.2
65°	2158.2	2207.0	2476.8	3058.6	4674.0	7836.6	11834.6	14064.3	17506.4	17662.5	14272.3
67.5°	1615.4	1634.9	1787.7	2138.7	3149.6	6087.9	10800.9	14002.5	18442.5	18582.3	14668.9
70°	1277.4	1283.9	1358.7	1547.2	2047.7	4238.5	8990.5	13095.7	18510.8	18634.3	14168.3
72.5°	1059.6	1056.4	1098.6	1189.6	1426.9	2681.5	6660.0	11412.0	17633.2	17717.7	12770.7
75°	874.3	880.8	910.1	962.1	1088.9	1768.2	4316.5	9104.3	15556.2	15465.2	10716.4
77.5°	734.6	731.3	744.3	789.8	880.8	1270.9	2528.8	6578.7	11529.0	11483.5	7033.8
80°	591.6	598.1	617.6	656.6	741.1	968.6	1495.2	4105.2	6185.4	6019.7	3360.9
82.5°	396.5	458.3	497.3	542.8	640.3	715.1	949.1	2086.7	2766.1	2723.8	1524.4
85°	188.5	250.3	370.5	422.5	520.1	448.5	643.6	994.6	1384.7	1368.4	549.3
87.5°	39.0	39.0	198.3	237.3	321.8	191.8	357.5	432.3	669.6	627.3	224.3
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°	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1
2.5°	3107.3	3019.6	2844.1	2704.3	2561.3	2480.0	2379.3	2330.5	2320.8	2294.8	2314.3
5°	3162.6	2990.3	2658.8	2441.0	2294.8	2223.2	2187.5	2174.5	2171.2	2164.7	2164.7
7.5°	3237.4	2974.1	2541.8	2320.8	2226.5	2203.7	2213.5	2233.0	2236.2	2242.7	2239.5
10°	3328.4	2977.3	2476.8	2291.5	2246.0	2249.2	2281.8	2307.8	2320.8	2330.5	2327.3
12.5°	3455.1	3016.3	2467.0	2311.0	2291.5	2304.5	2337.0	2363.0	2376.0	2379.3	2379.3
15°	3620.9	3097.6	2489.8	2353.3	2337.0	2346.8	2366.3	2376.0	2379.3	2376.0	2376.0
17.5°	3802.9	3195.1	2522.3	2379.3	2353.3	2343.5	2337.0	2327.3	2307.8	2294.8	2294.8
20°	3978.4	3282.9	2538.5	2376.0	2330.5	2291.5	2252.5	2203.7	2171.2	2145.2	2145.2
22.5°	4154.0	3364.1	2538.5	2340.3	2268.8	2194.0	2112.7	2034.7	1986.0	1953.5	1953.5
25°	4339.2	3442.1	2519.0	2278.5	2171.2	2064.0	1953.5	1856.0	1807.2	1774.7	1768.2
27.5°	4495.2	3487.6	2467.0	2190.7	2051.0	1914.5	1787.7	1686.9	1651.2	1621.9	1621.9
30°	4661.0	3516.9	2369.5	2077.0	1914.5	1758.4	1628.4	1547.2	1508.2	1465.9	1462.7
32.5°	4846.3	3536.4	2259.0	1956.7	1774.7	1608.9	1498.4	1433.4	1348.9	1303.4	1296.9
35°	5060.8	3562.4	2142.0	1820.2	1634.9	1485.4	1420.4	1313.1	1231.9	1192.9	1189.6
37.5°	5288.3	3581.9	2015.2	1699.9	1508.2	1404.2	1339.1	1212.4	1140.9	1082.4	1075.9
40°	5528.9	3581.9	1885.2	1582.9	1407.4	1368.4	1244.9	1131.1	1010.9	981.6	975.1
42.5°	5795.4	3575.4	1755.2	1469.2	1313.1	1287.1	1189.6	1069.4	1007.6	981.6	975.1
45°	6078.2	3552.6	1631.7	1339.1	1215.6	1163.6	1088.9	1056.4	1030.4	1030.4	1030.4
47.5°	6400.0	3533.1	1491.9	1222.1	1144.1	1085.6	1030.4	1010.9	1007.6	1017.4	1027.1
50°	6812.8	3526.6	1374.9	1137.6	1088.9	1020.6	1014.1	997.9	1001.1	1001.1	1001.1
52.5°	7313.3	3468.1	1264.4	1075.9	1033.6	952.4	971.9	988.1	994.6	991.4	988.1
55°	7680.6	3364.1	1170.1	1033.6	994.6	926.4	952.4	978.4	984.9	975.1	975.1
57.5°	8012.1	3217.9	1095.4	1001.1	968.6	910.1	939.4	965.4	958.9	955.6	952.4
60°	8392.4	3078.1	1036.9	984.9	942.6	903.6	929.6	945.9	936.1	929.6	926.4
62.5°	8805.2	2941.6	994.6	984.9	923.1	900.3	919.9	926.4	906.9	900.3	900.3
65°	8997.0	2727.1	949.1	984.9	913.4	893.8	900.3	893.8	874.3	874.3	871.1
67.5°	8681.7	2372.8	890.6	971.9	926.4	884.1	871.1	861.3	838.6	838.6	832.1
70°	7810.6	1950.2	806.1	929.6	929.6	880.8	832.1	809.3	783.3	793.1	780.1
72.5°	6673.0	1547.2	702.1	858.1	910.1	877.6	789.8	754.1	731.3	741.1	721.6
75°	5405.3	1199.4	578.6	744.3	861.3	861.3	747.6	698.8	672.8	672.8	650.1
77.5°	3445.4	887.3	471.3	617.6	773.6	838.6	711.8	637.1	598.1	588.3	572.1
80°	1706.4	624.1	386.8	490.8	659.8	786.6	685.8	565.6	510.3	490.8	461.6
82.5°	906.9	432.3	308.8	383.5	526.6	708.6	653.3	487.6	419.3	390.0	357.5
85°	406.3	266.5	247.0	292.5	399.8	581.8	588.3	399.8	321.8	383.5	282.8
87.5°	149.5	120.3	120.3	149.5	230.8	243.8	416.0	256.8	204.8	139.8	110.5
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)