

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: P380860

Luminaire Tested: **PRV-PA1A-730-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380860  
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-PA1A-730-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6926 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

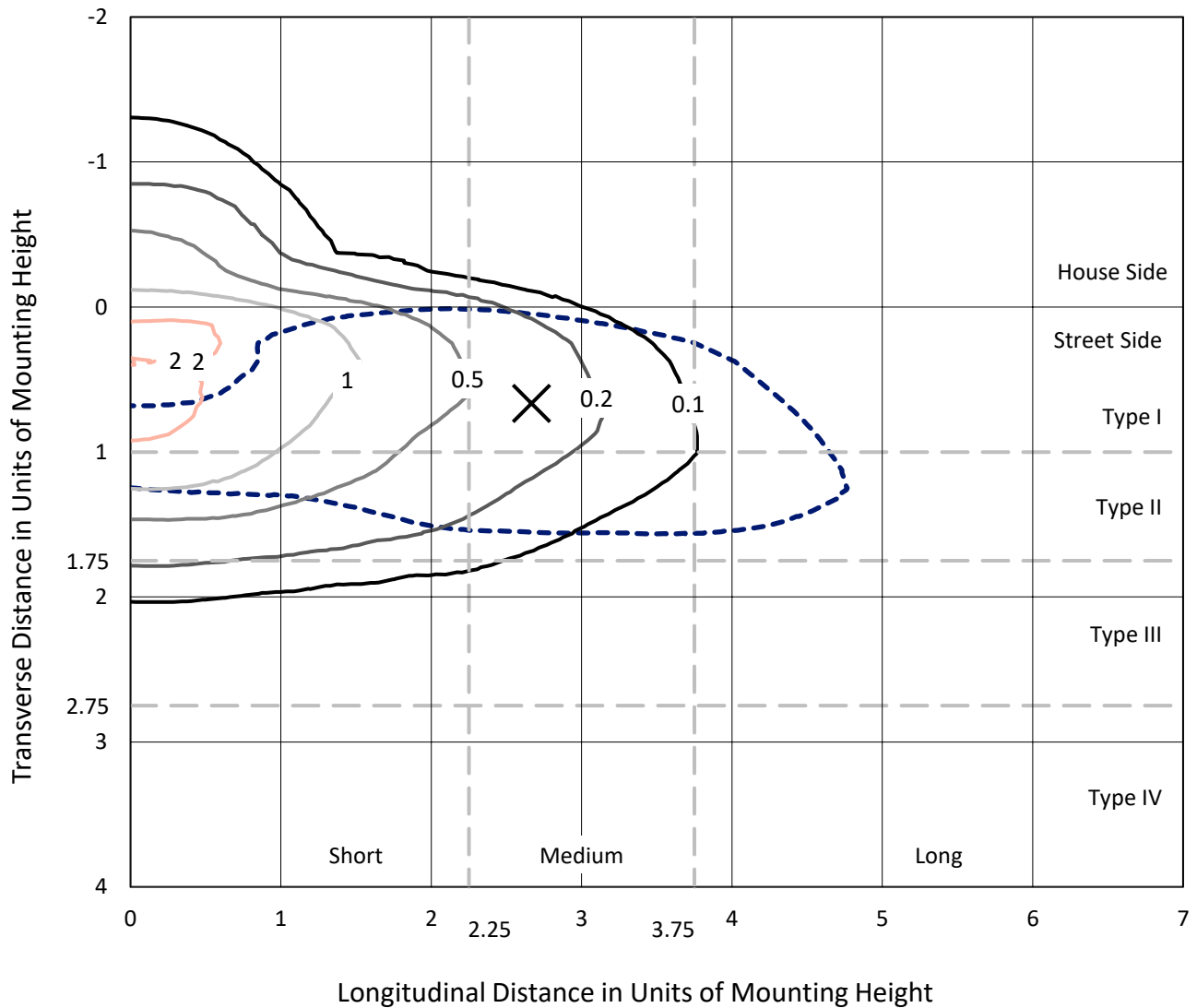
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

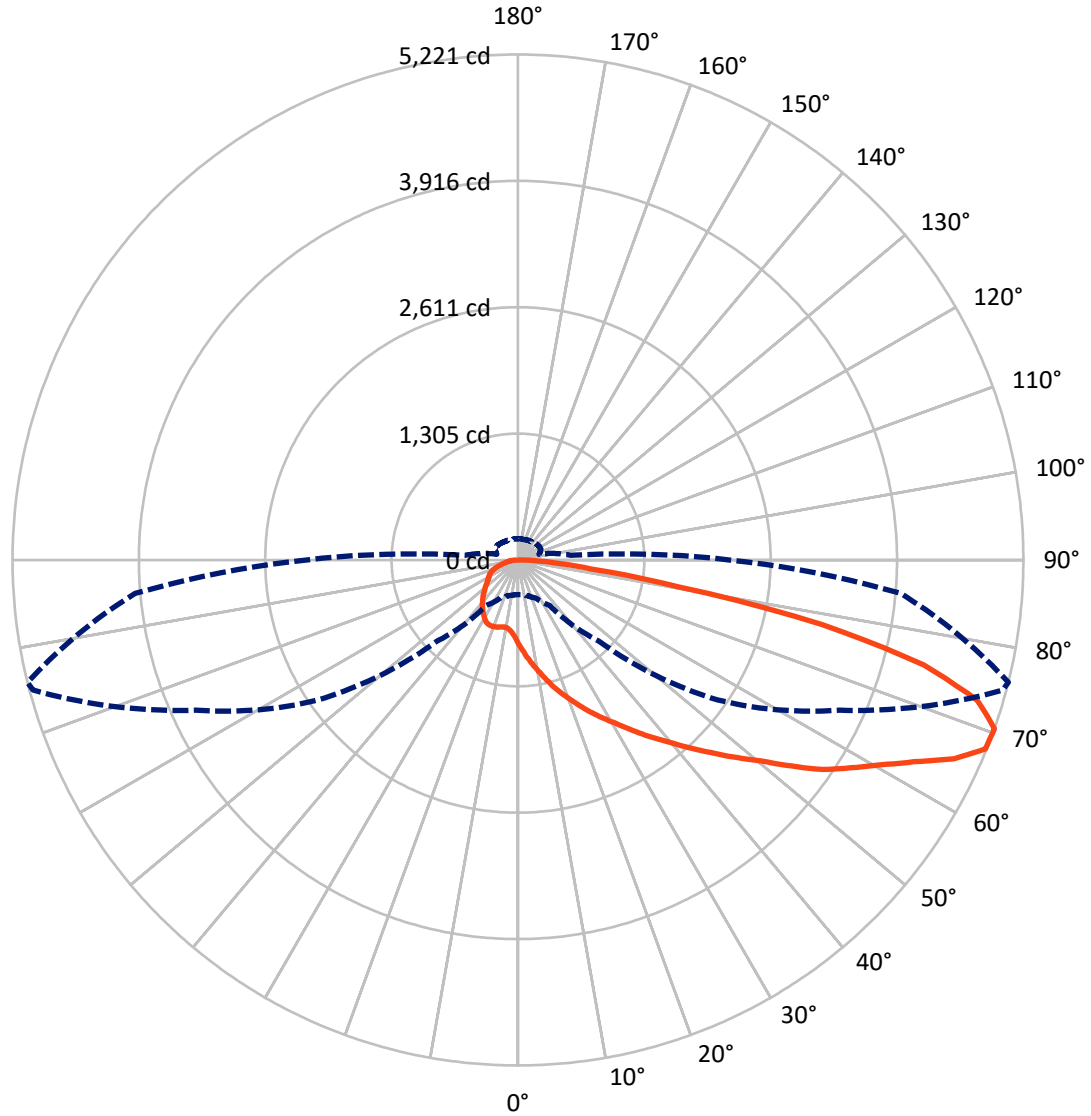
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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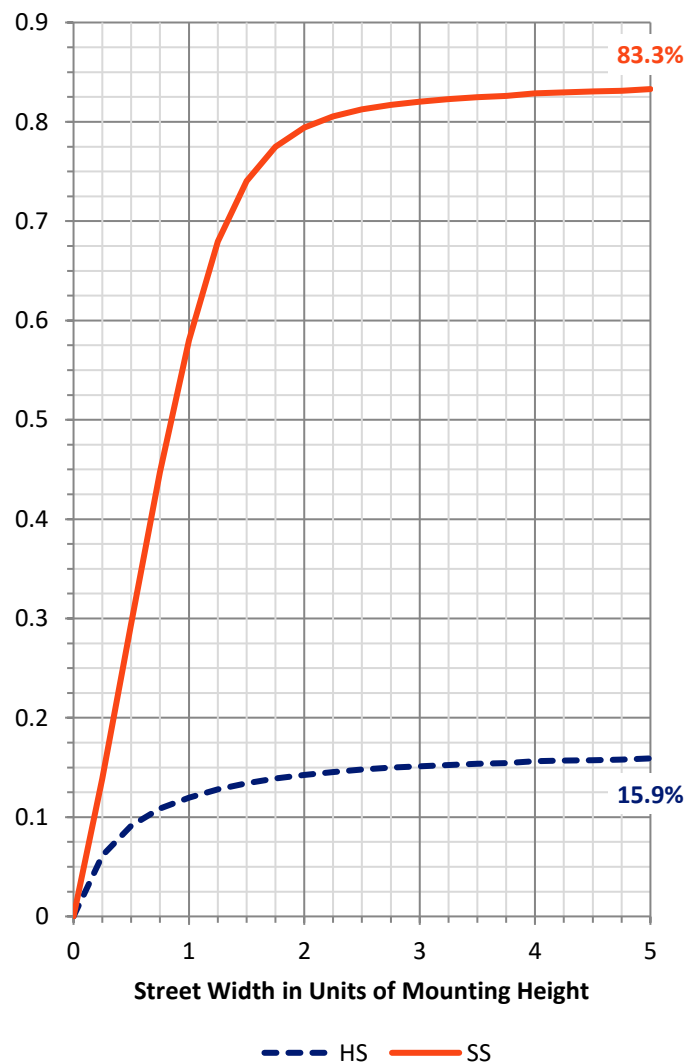
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1130.7	0.0	1130.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	5795.2	0.0	5795.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	6926.0	0.0	6926.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	1.3
10°-20°	305.9	4.4
20°-30°	547.2	7.9
30°-40°	885.2	12.8
40°-50°	1280.6	18.5
50°-60°	1465.7	21.2
60°-70°	1348.3	19.5
70°-80°	833.8	12.0
80°-90°	169.3	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°	6926.0	100.0
0°-180°	6926.0	100.0



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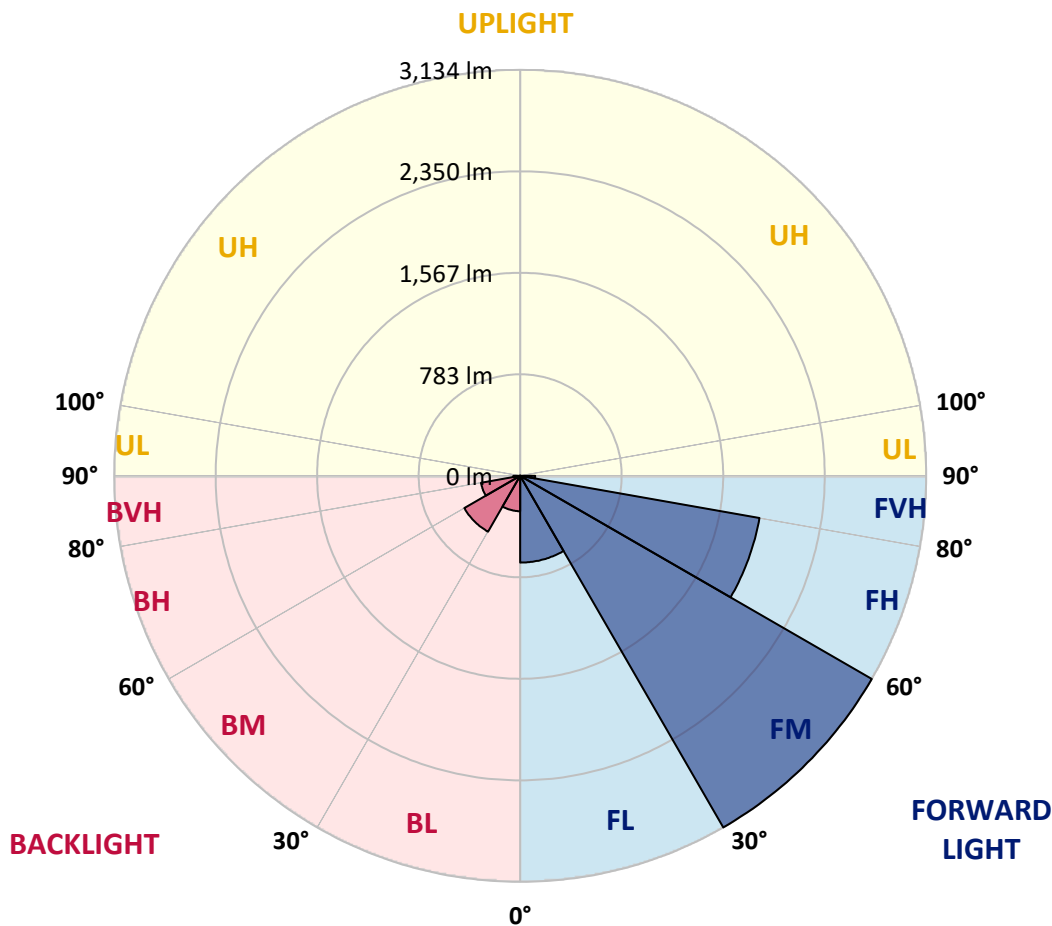
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.0	9.7			
FM (30°-60°)	3133.7	45.2			
FH (60°-80°)	1875.4	27.1			G2/5000
FVH (80°-90°)	116.2	1.7			G2/225
BL (0°-30°)	273.1	3.9	B1/500		
BM (30°-60°)	497.9	7.2	B1/1000		
BH (60°-80°)	306.7	4.4	B1/500		G1/500
BVH (80°-90°)	53.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	1103.8	1095.6	1094.7	1082.0	1070.1	1038.3	1015.5	975.4	935.3	934.4	894.4
5°	1276.0	1267.8	1263.2	1247.7	1227.7	1185.8	1144.8	1082.9	1014.6	1010.0	934.4
7.5°	1392.5	1385.3	1376.1	1369.8	1350.6	1313.3	1263.2	1189.4	1095.6	1086.5	980.9
10°	1470.9	1466.3	1464.5	1459.9	1448.1	1418.0	1369.8	1291.4	1176.7	1166.7	1030.1
12.5°	1504.6	1502.7	1510.9	1523.7	1528.2	1516.4	1470.0	1396.2	1265.9	1255.0	1089.3
15°	1465.4	1467.2	1488.2	1531.9	1578.3	1603.8	1576.5	1504.6	1367.0	1351.6	1158.5
17.5°	1447.2	1449.9	1464.5	1506.4	1572.0	1651.2	1663.9	1607.5	1464.5	1442.6	1231.3
20°	1479.1	1482.7	1493.6	1526.4	1572.0	1656.7	1723.1	1705.8	1560.1	1537.4	1301.5
22.5°	1560.1	1564.7	1563.8	1584.7	1615.7	1674.0	1755.9	1798.7	1660.3	1634.8	1374.3
25°	1733.2	1729.5	1698.6	1688.5	1696.7	1734.1	1799.6	1888.0	1765.0	1739.5	1450.8
27.5°	1968.1	1963.6	1907.1	1856.1	1810.6	1827.0	1861.6	1959.9	1871.6	1842.5	1523.7
30°	2219.5	2214.0	2148.5	2065.6	1964.5	1940.8	1936.3	2022.8	1979.1	1948.1	1601.1
32.5°	2464.5	2459.9	2389.8	2293.3	2153.9	2082.9	2039.2	2092.9	2101.1	2071.1	1685.8
35°	2687.6	2687.6	2627.5	2512.8	2355.2	2247.7	2175.8	2179.4	2241.4	2206.8	1782.3
37.5°	2886.2	2885.3	2819.7	2706.8	2555.6	2432.6	2343.4	2284.2	2375.2	2345.2	1883.4
40°	3043.7	3037.4	2989.1	2890.7	2738.6	2616.6	2526.4	2407.1	2524.6	2497.3	1990.9
42.5°	3158.5	3154.8	3122.1	3036.4	2891.6	2776.9	2715.0	2561.9	2694.0	2666.7	2116.6
45°	3203.1	3210.4	3210.4	3129.3	3014.6	2909.9	2882.5	2732.3	2877.1	2849.7	2251.4
47.5°	3131.2	3150.3	3189.5	3194.9	3093.8	3022.8	3031.9	2903.5	3065.6	3051.0	2398.9
50°	2906.2	2941.7	3027.3	3182.2	3125.7	3109.3	3159.4	3078.3	3267.8	3263.2	2578.3
52.5°	2326.1	2412.6	2679.4	2957.2	3103.8	3149.4	3286.0	3275.1	3528.3	3535.5	2812.4
55°	1784.2	1817.0	2125.7	2598.4	2970.0	3136.6	3370.7	3467.2	3810.6	3819.7	3027.3
57.5°	1442.6	1464.5	1633.0	2125.7	2664.9	3067.4	3437.2	3579.3	4027.3	4051.0	3218.6
60°	1143.0	1174.9	1287.8	1626.6	2237.7	2900.7	3483.6	3704.0	4260.5	4296.0	3447.2
62.5°	849.7	865.2	971.8	1204.9	1771.4	2601.1	3459.0	3839.7	4546.5	4589.3	3722.2
65°	604.7	618.4	694.0	857.0	1309.7	2195.8	3316.1	3940.8	4905.3	4949.0	3999.1
67.5°	452.6	458.1	500.9	599.3	882.5	1705.8	3026.4	3923.5	5167.6	5206.8	4110.2
70°	357.9	359.7	380.7	433.5	573.8	1187.6	2519.1	3669.4	5186.7	5221.3	3970.0
72.5°	296.9	296.0	307.8	333.3	399.8	751.4	1866.1	3197.7	4940.8	4964.5	3578.3
75°	245.0	246.8	255.0	269.6	305.1	495.4	1209.5	2551.0	4358.9	4333.4	3002.8
77.5°	205.8	204.9	208.6	221.3	246.8	356.1	708.6	1843.4	3230.4	3217.7	1970.9
80°	165.8	167.6	173.0	184.0	207.7	271.4	418.9	1150.3	1733.2	1686.7	941.7
82.5°	111.1	128.4	139.3	152.1	179.4	200.4	265.9	584.7	775.1	763.2	427.1
85°	52.8	70.1	103.8	118.4	145.7	125.7	180.3	278.7	388.0	383.4	153.9
87.5°	10.9	10.9	55.6	66.5	90.2	53.7	100.2	121.1	187.6	175.8	62.8
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°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	870.7	846.1	796.9	757.7	717.7	694.9	666.7	653.0	650.3	643.0	648.5
5°	886.2	837.9	745.0	684.0	643.0	623.0	612.9	609.3	608.4	606.6	606.6
7.5°	907.1	833.3	712.2	650.3	623.9	617.5	620.2	625.7	626.6	628.4	627.5
10°	932.6	834.2	694.0	642.1	629.3	630.2	639.3	646.6	650.3	653.0	652.1
12.5°	968.1	845.2	691.3	647.5	642.1	645.7	654.8	662.1	665.8	666.7	666.7
15°	1014.6	867.9	697.6	659.4	654.8	657.6	663.0	665.8	666.7	665.8	665.8
17.5°	1065.6	895.3	706.7	666.7	659.4	656.7	654.8	652.1	646.6	643.0	643.0
20°	1114.8	919.9	711.3	665.8	653.0	642.1	631.2	617.5	608.4	601.1	601.1
22.5°	1163.9	942.6	711.3	655.7	635.7	614.8	592.0	570.1	556.5	547.4	547.4
25°	1215.9	964.5	705.8	638.4	608.4	578.3	547.4	520.0	506.4	497.3	495.4
27.5°	1259.6	977.2	691.3	613.8	574.7	536.4	500.9	472.7	462.7	454.5	454.5
30°	1306.0	985.4	663.9	582.0	536.4	492.7	456.3	433.5	422.6	410.7	409.8
32.5°	1357.9	990.9	633.0	548.3	497.3	450.8	419.9	401.6	378.0	365.2	363.4
35°	1418.0	998.2	600.2	510.0	458.1	416.2	398.0	367.9	345.2	334.2	333.3
37.5°	1481.8	1003.6	564.7	476.3	422.6	393.4	375.2	339.7	319.7	303.3	301.5
40°	1549.2	1003.6	528.2	443.5	394.4	383.4	348.8	316.9	283.2	275.0	273.2
42.5°	1623.9	1001.8	491.8	411.7	367.9	360.7	333.3	299.6	282.3	275.0	273.2
45°	1703.1	995.5	457.2	375.2	340.6	326.0	305.1	296.0	288.7	288.7	288.7
47.5°	1793.3	990.0	418.0	342.4	320.6	304.2	288.7	283.2	282.3	285.1	287.8
50°	1908.9	988.2	385.2	318.8	305.1	286.0	284.2	279.6	280.5	280.5	280.5
52.5°	2049.2	971.8	354.3	301.5	289.6	266.9	272.3	276.9	278.7	277.8	276.9
55°	2152.1	942.6	327.9	289.6	278.7	259.6	266.9	274.1	276.0	273.2	273.2
57.5°	2245.0	901.6	306.9	280.5	271.4	255.0	263.2	270.5	268.7	267.8	266.9
60°	2351.6	862.5	290.5	276.0	264.1	253.2	260.5	265.0	262.3	260.5	259.6
62.5°	2467.2	824.2	278.7	276.0	258.7	252.3	257.7	259.6	254.1	252.3	252.3
65°	2521.0	764.1	265.9	276.0	255.9	250.5	252.3	250.5	245.0	245.0	244.1
67.5°	2432.6	664.8	249.5	272.3	259.6	247.7	244.1	241.3	235.0	235.0	233.2
70°	2188.5	546.5	225.9	260.5	260.5	246.8	233.2	226.8	219.5	222.2	218.6
72.5°	1869.8	433.5	196.7	240.4	255.0	245.9	221.3	211.3	204.9	207.7	202.2
75°	1514.6	336.1	162.1	208.6	241.3	241.3	209.5	195.8	188.5	188.5	182.2
77.5°	965.4	248.6	132.1	173.0	216.8	235.0	199.5	178.5	167.6	164.8	160.3
80°	478.1	174.9	108.4	137.5	184.9	220.4	192.2	158.5	143.0	137.5	129.3
82.5°	254.1	121.1	86.5	107.5	147.5	198.5	183.1	136.6	117.5	109.3	100.2
85°	113.8	74.7	69.2	82.0	112.0	163.0	164.8	112.0	90.2	107.5	79.2
87.5°	41.9	33.7	33.7	41.9	64.7	68.3	116.6	71.9	57.4	39.2	31.0
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)