

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: P381116

Luminaire Tested: **PRV-PA1A-730-U-T2U**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1A-730-U-T2U  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

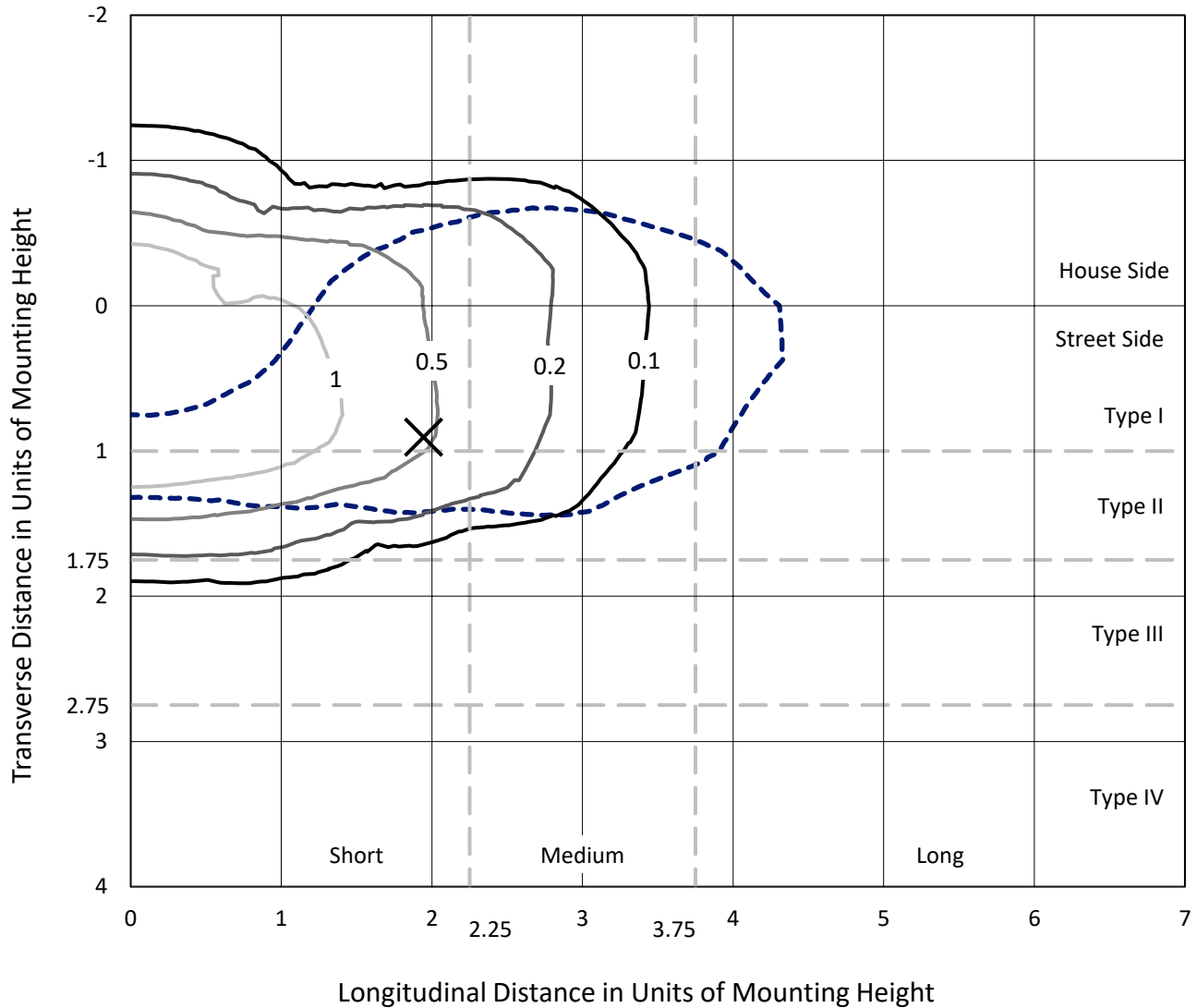
Lumens per Lamp: N/A  
Luminaire Lumens: 6919 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P381116  
 CATALOG NUMBER: PRV-PA1A-730-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

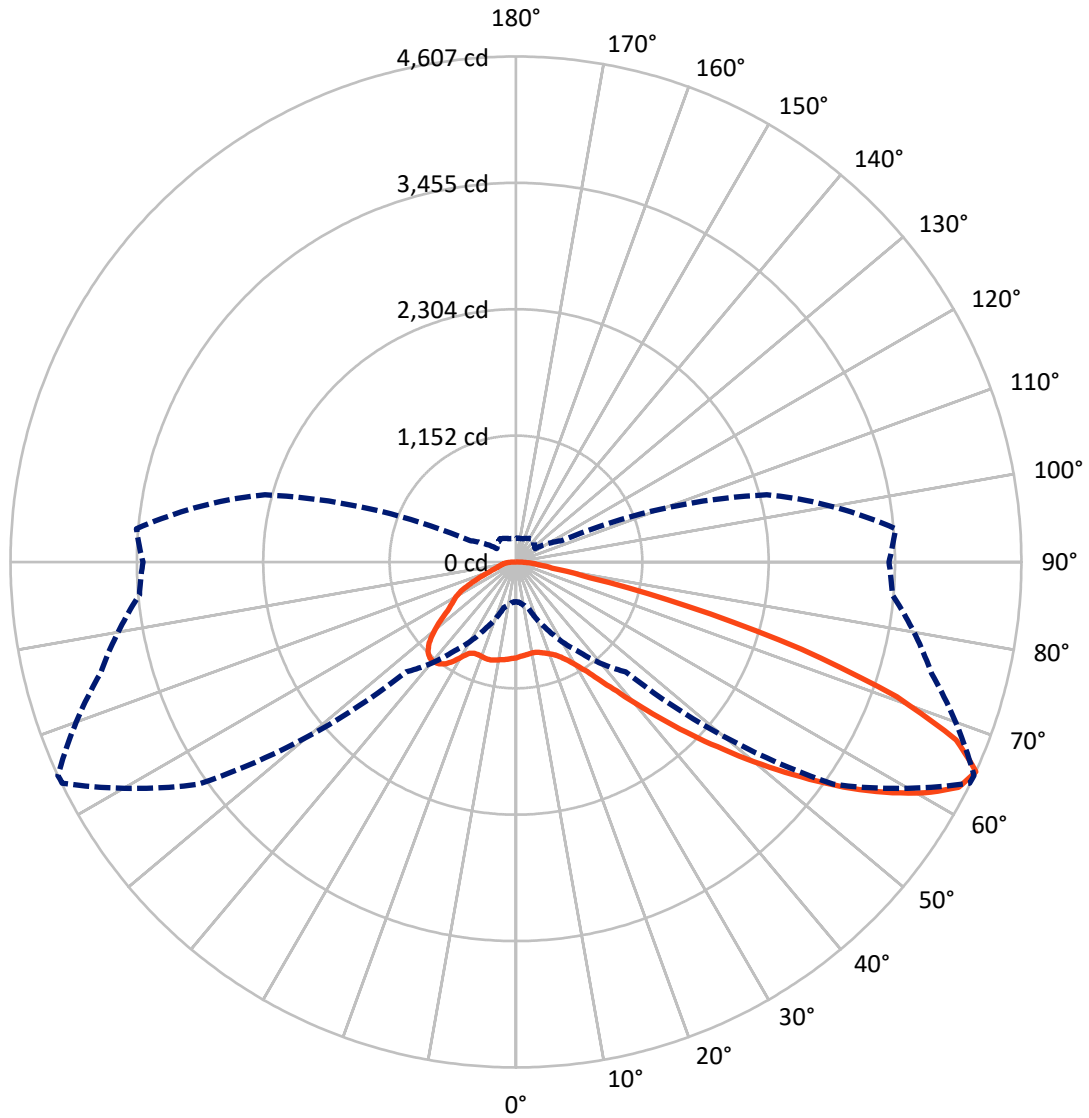
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P381116  
CATALOG NUMBER: PRV-PA1A-730-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P381116  
 CATALOG NUMBER: PRV-PA1A-730-U-T2U

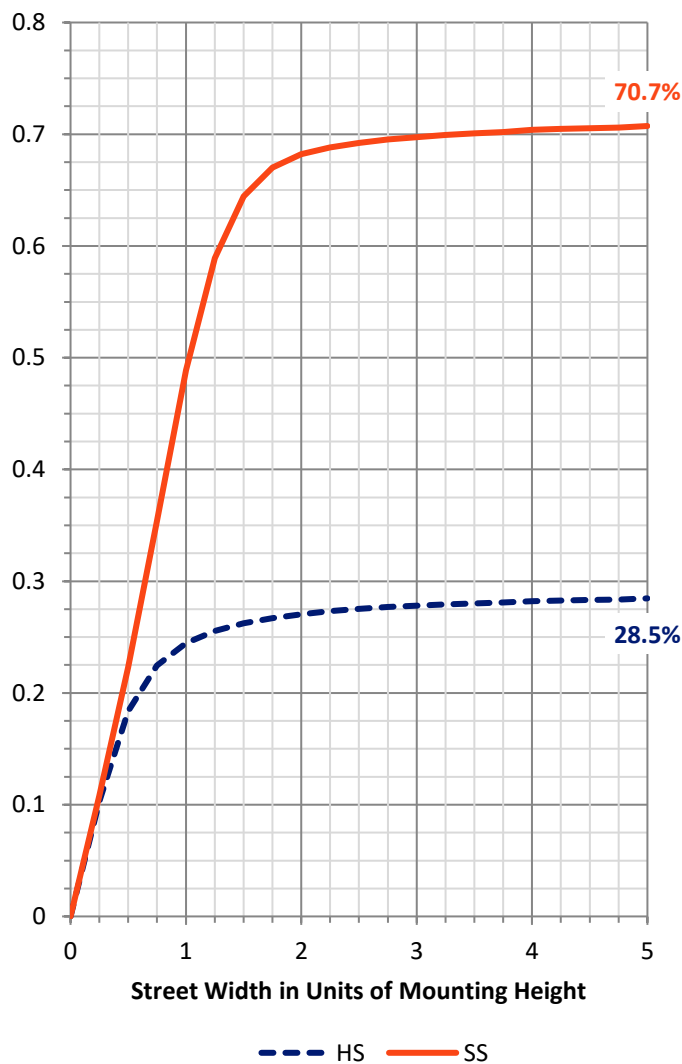
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2000.4	0.0	2000.4
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	4918.6	0.0	4918.6
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	6919.0	0.0	6919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.2
10°-20°	248.7	3.6
20°-30°	441.7	6.4
30°-40°	747.3	10.8
40°-50°	1300.9	18.8
50°-60°	1681.2	24.3
60°-70°	1471.1	21.3
70°-80°	800.2	11.6
80°-90°	144.6	2.1
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°	6919.0	100.0
0°-180°	6919.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P381116

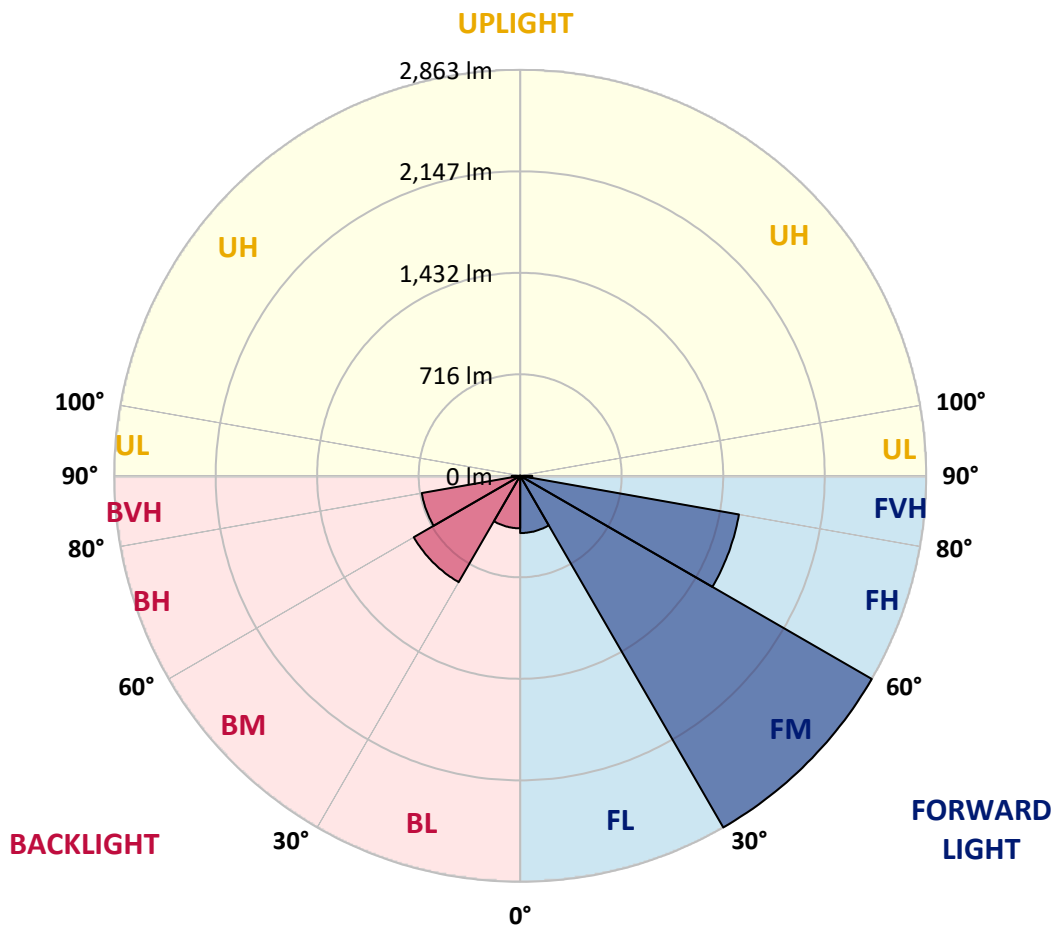
CATALOG NUMBER: PRV-PA1A-730-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.7	5.8			
FM (30°-60°)	2863.3	41.4			
FH (60°-80°)	1566.6	22.6			G1/1800
FVH (80°-90°)	85.1	1.2			G1/100
BL (0°-30°)	370.0	5.3	B1/500		
BM (30°-60°)	866.1	12.5	B1/1000		
BH (60°-80°)	704.8	10.2	B2/1000		G2/1000
BVH (80°-90°)	59.5	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P381116

CATALOG NUMBER: PRV-PA1A-730-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3
2.5°	858.8	857.9	856.1	857.9	858.8	860.6	859.7	861.5	860.6	863.4	867.9
5°	836.9	835.1	834.2	838.8	841.5	846.1	847.9	854.2	853.3	857.9	865.2
7.5°	812.4	812.4	811.4	816.9	820.6	828.7	835.1	846.1	847.0	855.2	863.4
10°	793.2	794.1	793.2	797.8	803.2	813.3	824.2	839.7	840.6	852.4	860.6
12.5°	785.9	785.9	785.9	792.3	799.6	813.3	826.0	842.4	844.2	857.0	864.3
15°	796.0	796.9	795.1	801.4	809.6	826.0	837.9	855.2	857.0	868.8	873.4
17.5°	831.5	835.1	830.6	834.2	832.4	845.1	856.1	873.4	874.3	884.3	886.1
20°	901.6	905.2	898.0	893.4	877.0	876.1	880.7	894.3	894.3	900.7	896.1
22.5°	1010.0	1013.6	1000.9	983.6	944.4	925.3	915.3	921.6	920.7	923.5	911.6
25°	1153.9	1153.0	1137.5	1105.6	1042.8	996.3	971.7	961.7	961.7	956.2	941.7
27.5°	1332.4	1318.7	1291.4	1253.1	1165.7	1101.0	1048.2	1022.7	1018.2	1001.8	974.5
30°	1522.7	1512.7	1473.5	1418.0	1316.9	1234.0	1146.6	1095.6	1092.9	1057.3	1016.4
32.5°	1746.7	1730.4	1686.6	1620.2	1499.0	1382.5	1273.2	1195.8	1191.2	1134.7	1078.3
35°	2034.5	2020.9	1936.2	1869.7	1714.0	1561.0	1431.6	1328.7	1325.1	1255.9	1183.9
37.5°	2379.7	2344.2	2262.2	2137.4	1973.5	1792.3	1628.4	1499.0	1494.5	1418.0	1326.9
40°	2687.5	2655.6	2582.8	2468.0	2292.3	2091.0	1868.8	1712.1	1707.6	1614.7	1499.9
42.5°	2915.2	2893.3	2846.0	2779.5	2653.8	2531.8	2175.7	1969.9	1961.7	1841.5	1698.5
45°	3047.2	3029.9	3002.6	3019.0	3017.2	2994.4	2541.8	2276.8	2250.4	2094.6	1919.8
47.5°	3015.4	2999.9	3010.8	3138.3	3314.1	3446.1	2968.0	2591.0	2555.5	2352.4	2155.7
50°	2785.0	2791.3	2848.7	3092.8	3487.1	3780.4	3440.7	2948.9	2901.5	2611.9	2379.7
52.5°	2365.1	2380.6	2519.9	2861.5	3468.0	3997.1	3867.8	3318.6	3255.8	2865.1	2583.7
55°	1878.8	1918.0	2098.3	2457.1	3218.5	4012.6	4190.2	3690.2	3621.0	3102.8	2761.3
57.5°	1389.7	1448.0	1656.6	1986.3	2740.3	3767.6	4351.4	4045.4	3961.6	3338.7	2948.9
60°	881.6	917.1	1157.5	1546.4	2097.4	3168.4	4330.4	4347.7	4274.9	3573.6	3144.7
62.5°	562.8	580.1	701.2	1102.9	1466.2	2346.0	4101.8	4576.3	4527.1	3787.6	3330.5
65°	361.6	368.8	430.8	678.5	998.1	1416.2	3532.6	4600.9	4607.3	3921.5	3445.2
67.5°	294.2	297.8	320.6	418.9	705.8	782.3	2460.7	4251.2	4328.6	3886.9	3406.1
70°	267.7	272.3	296.0	334.2	546.4	540.1	1191.2	3557.2	3683.8	3687.5	3232.1
72.5°	225.9	232.2	264.1	316.0	422.6	426.2	504.5	2533.6	2720.3	3295.9	2970.7
75°	188.5	192.2	219.5	278.7	357.9	340.6	354.3	1343.3	1612.9	2642.9	2693.0
77.5°	153.0	156.6	176.7	222.2	317.8	265.0	278.7	556.4	687.6	1794.1	2201.2
80°	109.3	112.9	135.7	173.0	240.4	238.6	206.7	306.9	333.3	969.9	1429.8
82.5°	78.3	81.1	102.9	123.9	166.7	239.5	155.7	208.6	218.6	429.9	576.5
85°	52.8	52.8	71.0	82.0	107.5	151.2	125.7	141.2	147.5	204.0	155.7
87.5°	22.8	22.8	38.2	41.9	56.5	70.1	93.8	71.0	72.9	110.2	63.7
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: P381116  
 CATALOG NUMBER: PRV-PA1A-730-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3
2.5°	870.6	871.6	873.4	878.8	882.5	887.9	890.7	894.3	894.3	892.5	893.4
5°	868.8	871.6	877.9	887.9	894.3	904.3	911.6	917.1	918.9	917.1	918.0
7.5°	867.9	872.5	883.4	898.0	907.1	919.8	929.8	936.2	940.8	938.9	939.9
10°	865.2	872.5	886.1	904.3	918.0	930.7	939.9	942.6	945.3	943.5	942.6
12.5°	868.8	877.0	891.6	913.4	928.9	938.9	941.7	937.1	930.7	927.1	926.2
15°	876.1	884.3	898.9	921.6	935.3	938.9	932.6	918.0	903.4	895.2	894.3
17.5°	886.1	891.6	903.4	923.5	934.4	929.8	917.1	899.8	888.9	882.5	883.4
20°	892.5	892.5	901.6	917.1	926.2	922.5	907.1	887.9	870.6	862.4	859.7
22.5°	901.6	897.1	898.0	911.6	924.4	918.9	886.1	852.4	827.8	818.7	817.8
25°	926.2	913.4	905.2	913.4	943.5	898.9	833.3	794.1	771.4	763.2	764.1
27.5°	956.2	938.9	921.6	935.3	959.0	853.3	765.9	721.3	707.6	701.2	704.0
30°	986.3	963.5	940.8	989.9	948.0	782.3	679.4	635.7	623.8	619.3	622.9
32.5°	1041.9	1004.5	977.2	1062.8	914.4	701.2	585.6	545.5	534.6	529.1	527.3
35°	1134.7	1087.4	1060.1	1126.5	867.0	611.1	500.0	471.7	459.9	448.1	446.2
37.5°	1268.6	1211.2	1186.7	1163.0	800.5	521.8	434.4	415.3	398.0	379.8	378.9
40°	1428.9	1354.2	1336.0	1179.4	708.5	438.1	388.9	370.7	348.8	331.5	332.4
42.5°	1613.8	1518.2	1479.0	1174.8	594.7	393.4	356.1	336.1	316.9	301.4	300.5
45°	1811.4	1703.0	1612.9	1142.9	481.8	362.5	336.1	312.4	293.2	275.9	274.1
47.5°	2030.0	1908.8	1736.7	1081.0	398.0	340.6	324.2	290.5	273.2	262.3	262.3
50°	2250.4	2105.6	1850.6	987.2	348.8	324.2	306.9	278.7	265.0	255.9	255.9
52.5°	2438.9	2310.5	1944.4	875.2	317.8	310.6	295.1	273.2	258.6	250.4	249.5
55°	2621.9	2500.8	2028.2	764.1	292.3	292.3	292.3	268.7	252.3	245.0	244.1
57.5°	2804.1	2701.2	2115.6	691.2	269.6	276.9	286.9	263.2	246.8	240.4	239.5
60°	3009.9	2941.6	2216.7	640.2	249.5	260.5	279.6	256.8	237.7	232.2	231.3
62.5°	3228.5	3228.5	2308.7	568.3	231.3	246.8	268.7	248.6	229.5	224.9	224.0
65°	3399.7	3473.5	2367.8	460.8	213.1	233.1	255.9	237.7	218.6	217.7	215.8
67.5°	3419.7	3535.4	2330.5	347.9	196.7	218.6	243.2	225.9	207.6	207.6	204.9
70°	3275.8	3393.3	2213.9	260.5	184.9	204.0	226.8	211.3	194.0	195.8	191.2
72.5°	3035.4	3064.5	1924.3	205.8	171.2	188.5	206.7	194.9	179.4	179.4	173.0
75°	2718.5	2556.4	1397.9	172.1	154.8	170.3	186.7	176.7	163.0	158.5	154.8
77.5°	2163.8	1852.4	812.4	148.4	141.2	153.0	163.9	156.6	144.8	134.8	134.8
80°	1318.7	1085.6	358.8	128.4	124.8	133.9	141.2	133.0	122.9	112.9	110.2
82.5°	501.8	418.9	173.9	110.2	109.3	114.7	120.2	112.0	104.7	100.2	86.5
85°	137.5	126.6	119.3	92.0	90.2	89.2	95.6	92.0	82.0	67.4	60.1
87.5°	51.9	59.2	64.7	56.5	60.1	55.6	63.7	58.3	51.9	33.7	30.1
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)