

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: P380989

Luminaire Tested: **PRV-PA1B-730-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1B-730-U-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8869 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

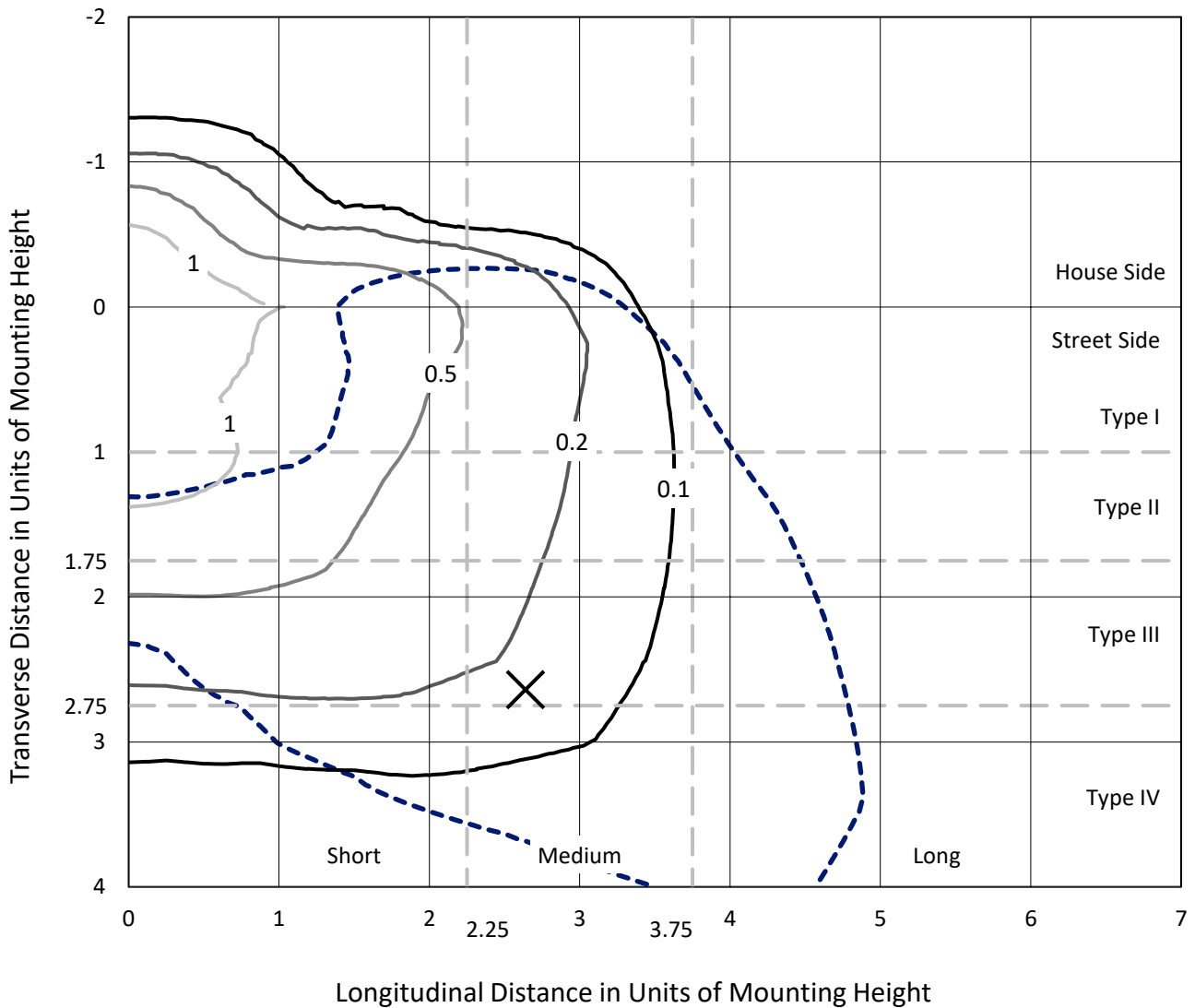
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

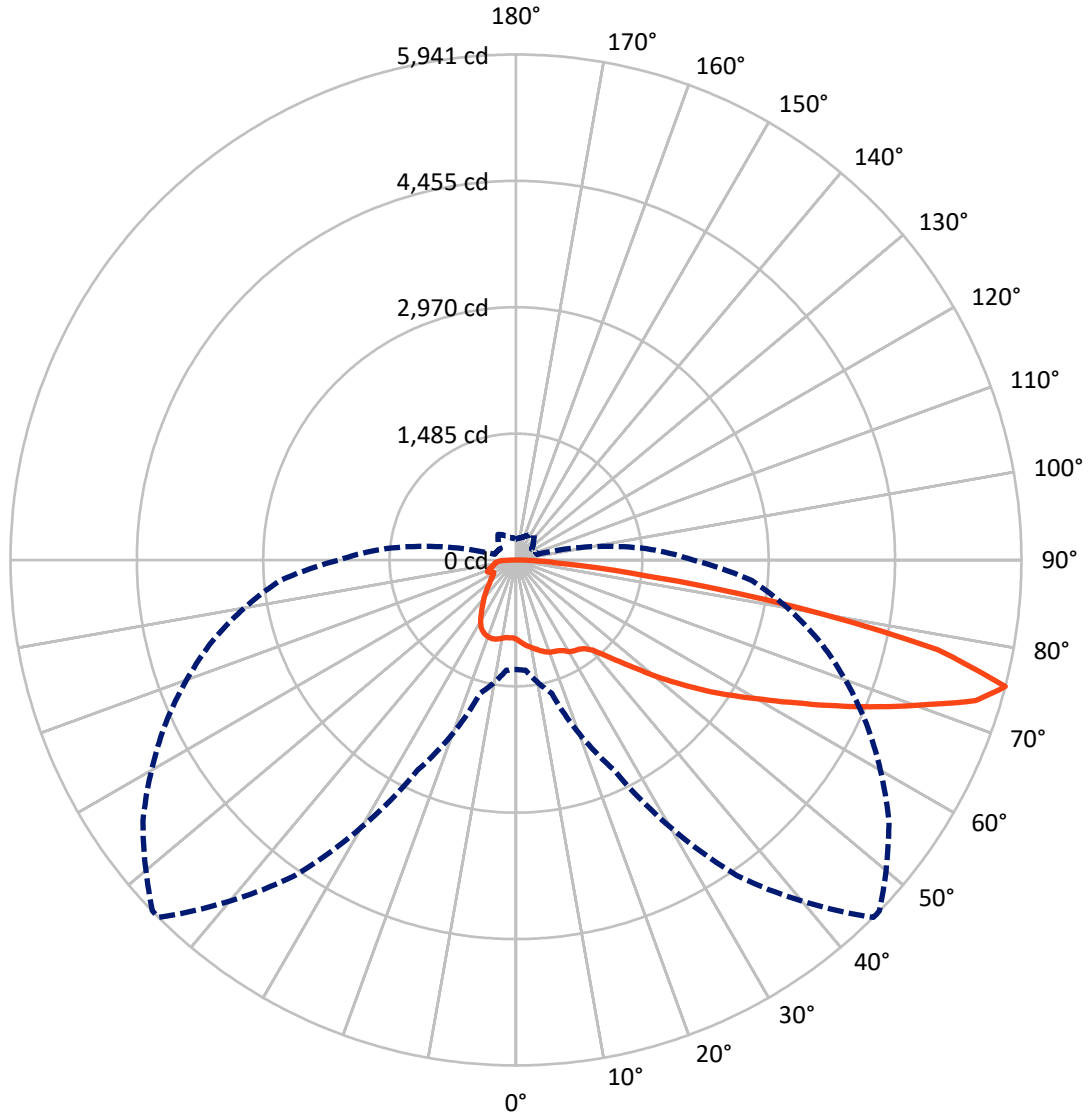
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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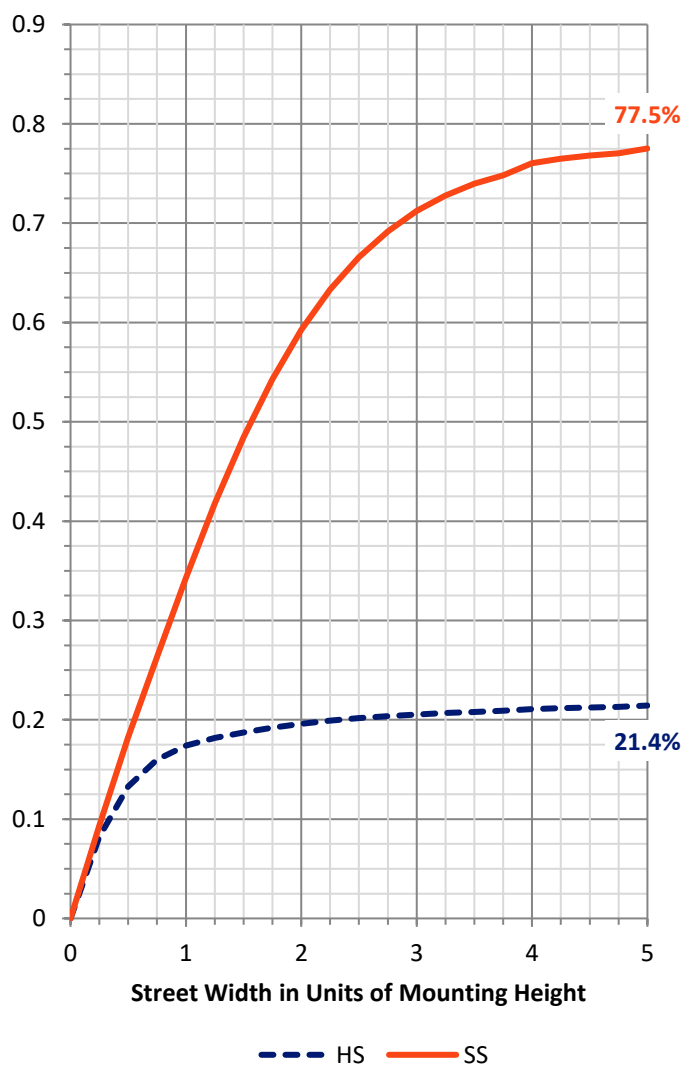
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1960.0	0.0	1960.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	6909.0	0.0	6909.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	8869.0	0.0	8869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.0
10°-20°	293.2	3.3
20°-30°	499.8	5.6
30°-40°	700.3	7.9
40°-50°	1028.8	11.6
50°-60°	1637.3	18.5
60°-70°	2329.1	26.3
70°-80°	1950.1	22.0
80°-90°	338.4	3.8
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°	8869.0	100.0
0°-180°	8869.0	100.0

**Coefficient of Utilization**



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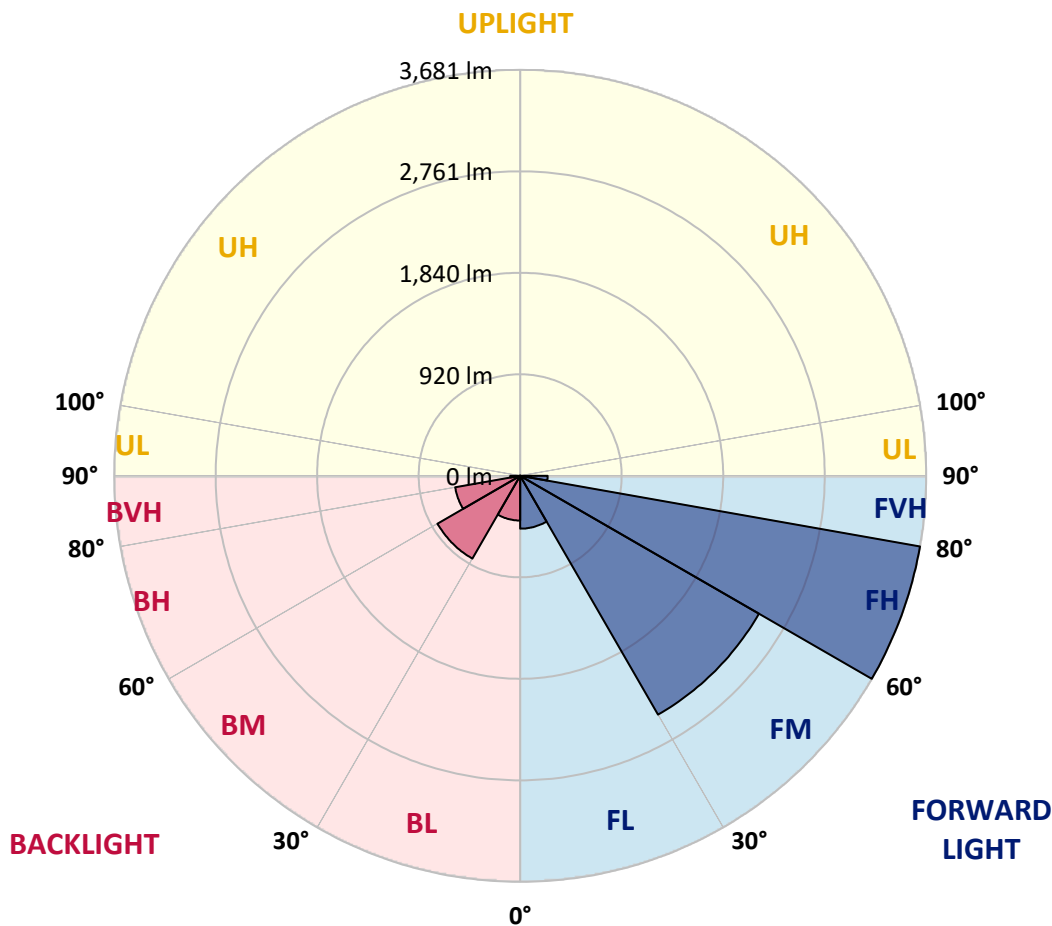
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.4	5.4			
FM (30°-60°)	2499.9	28.2			
FH (60°-80°)	3680.9	41.5			G2/5000
FVH (80°-90°)	248.8	2.8			G3/500
BL (0°-30°)	405.6	4.6	B1/500		
BM (30°-60°)	866.4	9.8	B1/1000		
BH (60°-80°)	598.3	6.7	B2/1000		G2/1000
BVH (80°-90°)	89.6	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	984.8	980.0	977.7	977.7	968.2	962.3	961.1	952.8	945.7	938.5	932.6
5°	1041.6	1038.1	1031.0	1025.1	1012.0	995.4	993.1	975.3	957.5	940.9	926.7
7.5°	1093.8	1086.7	1078.4	1066.5	1045.2	1022.7	1019.1	994.2	969.4	944.5	925.5
10°	1137.6	1130.5	1118.7	1102.1	1074.8	1047.6	1044.0	1017.9	991.9	962.3	935.0
12.5°	1179.1	1173.2	1155.4	1132.9	1100.9	1076.0	1072.5	1049.9	1022.7	989.5	954.0
15°	1214.7	1208.7	1189.8	1163.7	1127.0	1108.0	1103.3	1081.9	1054.7	1019.1	982.4
17.5°	1232.4	1232.4	1212.3	1183.9	1149.5	1135.3	1131.7	1105.6	1080.8	1046.4	1009.7
20°	1238.4	1240.7	1226.5	1192.1	1162.5	1156.6	1153.0	1131.7	1103.3	1070.1	1035.7
22.5°	1241.9	1246.7	1234.8	1195.7	1170.8	1167.3	1164.9	1150.7	1128.2	1096.2	1061.8
25°	1253.8	1253.8	1245.5	1201.6	1181.5	1180.3	1180.3	1172.0	1156.6	1129.3	1095.0
27.5°	1271.5	1270.4	1259.7	1214.7	1205.2	1208.7	1207.6	1206.4	1195.7	1168.4	1131.7
30°	1301.2	1301.2	1289.3	1240.7	1234.8	1250.2	1251.4	1253.8	1237.2	1194.5	1164.9
32.5°	1346.2	1341.5	1329.6	1266.8	1257.3	1271.5	1273.9	1272.7	1258.5	1218.2	1204.0
35°	1484.9	1474.2	1431.5	1324.9	1277.5	1285.8	1287.0	1292.9	1295.2	1263.2	1256.1
37.5°	1727.8	1713.6	1648.4	1462.3	1341.5	1321.3	1320.1	1335.5	1348.6	1320.1	1320.1
40°	1992.0	1980.2	1942.3	1699.3	1460.0	1393.6	1388.9	1403.1	1419.7	1399.5	1405.5
42.5°	2219.6	2229.1	2232.6	1950.6	1637.7	1528.7	1515.7	1495.5	1521.6	1503.8	1527.5
45°	2390.2	2385.5	2450.7	2207.7	1867.6	1698.2	1680.4	1625.9	1659.1	1657.9	1710.0
47.5°	2571.5	2563.2	2590.5	2449.5	2129.5	1905.5	1878.3	1797.7	1847.5	1881.8	1968.3
50°	2743.4	2745.7	2755.2	2640.3	2413.9	2158.0	2123.6	2015.7	2086.9	2159.1	2281.2
52.5°	2967.3	2950.7	2938.9	2863.0	2732.7	2421.0	2398.5	2275.3	2374.8	2460.1	2622.5
55°	3162.9	3152.2	3145.1	3141.5	2999.3	2711.4	2687.7	2559.7	2703.1	2763.5	3002.9
57.5°	3371.4	3365.5	3403.4	3463.9	3407.0	3006.4	2981.6	2858.3	3018.3	3061.0	3415.3
60°	3524.3	3527.9	3632.1	3786.2	3747.1	3326.4	3296.8	3187.7	3325.2	3363.1	3827.7
62.5°	3525.5	3561.0	3802.8	4078.9	4123.9	3694.9	3660.6	3542.1	3640.4	3640.4	4197.4
65°	3188.9	3229.2	3772.0	4151.2	4505.5	4133.4	4100.2	3914.2	3950.9	3901.1	4544.6
67.5°	2853.6	2901.0	3411.7	4157.1	4773.3	4602.7	4563.6	4286.3	4223.5	4097.9	4787.5
70°	2630.8	2664.0	3090.6	4080.1	4934.5	5093.3	5063.7	4639.4	4438.0	4262.6	4736.6
72.5°	2214.8	2203.0	2610.6	3713.9	5024.6	5650.3	5625.4	5023.4	4624.0	4184.4	4039.8
75°	1285.8	1300.0	1619.9	2720.8	4529.2	5940.6	5938.2	5351.6	4542.2	3696.1	2783.7
77.5°	370.9	381.6	532.1	1195.7	2864.2	5067.2	5229.6	4894.2	3839.5	2634.3	1443.4
80°	162.4	170.6	231.1	398.2	1233.6	3309.8	3452.0	3309.8	2315.6	1208.7	566.4
82.5°	96.0	101.9	150.5	246.5	591.3	1574.9	1766.9	1542.9	999.0	513.1	234.6
85°	54.5	56.9	86.5	156.4	372.1	551.0	618.6	579.5	487.1	291.5	123.2
87.5°	24.9	26.1	42.7	73.5	208.6	186.1	193.2	256.0	282.0	177.8	61.6
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°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	930.3	926.7	919.6	917.2	913.7	914.8	916.0	916.0	917.2	913.7	913.7
5°	920.8	914.8	907.7	907.7	907.7	917.2	925.5	930.3	932.6	932.6	930.3
7.5°	917.2	910.1	901.8	904.2	906.6	918.4	933.8	949.2	954.0	954.0	951.6
10°	924.3	917.2	911.3	914.8	920.8	930.3	942.1	956.3	968.2	969.4	968.2
12.5°	940.9	932.6	926.7	933.8	940.9	946.8	952.8	958.7	974.1	976.5	976.5
15°	968.2	959.9	952.8	958.7	961.1	961.1	961.1	961.1	976.5	978.8	978.8
17.5°	995.4	988.3	981.2	982.4	975.3	965.8	962.3	961.1	969.4	976.5	977.7
20°	1021.5	1015.6	1008.5	996.6	978.8	961.1	955.1	955.1	959.9	970.5	970.5
22.5°	1049.9	1042.8	1031.0	1003.7	974.1	949.2	943.3	946.8	952.8	967.0	965.8
25°	1081.9	1072.5	1052.3	1001.4	958.7	929.1	930.3	940.9	951.6	967.0	967.0
27.5°	1117.5	1104.5	1064.2	982.4	924.3	895.9	906.6	931.4	946.8	963.4	965.8
30°	1156.6	1144.7	1073.6	949.2	868.6	842.6	868.6	908.9	932.6	948.0	951.6
32.5°	1204.0	1194.5	1081.9	906.6	796.3	773.8	811.8	861.5	899.4	917.2	920.8
35°	1263.2	1253.8	1092.6	858.0	728.8	705.1	739.5	790.4	840.2	862.7	869.8
37.5°	1340.3	1326.1	1102.1	805.8	671.9	644.7	661.3	707.5	752.5	783.3	791.6
40°	1438.6	1416.1	1110.4	746.6	622.1	591.3	597.3	619.8	645.8	673.1	683.8
42.5°	1577.3	1532.3	1111.6	683.8	571.2	542.7	540.4	547.5	547.5	547.5	551.0
45°	1770.4	1685.1	1113.9	624.5	519.0	489.4	482.3	479.9	462.2	427.8	425.4
47.5°	2014.6	1885.4	1124.6	574.7	464.5	438.5	429.0	419.5	386.3	350.8	343.7
50°	2327.4	2117.7	1145.9	527.3	418.3	400.5	388.7	366.2	329.4	302.2	295.1
52.5°	2687.7	2393.8	1166.1	477.6	384.0	372.1	357.9	330.6	291.5	274.9	272.6
55°	3101.2	2701.9	1206.4	433.7	354.3	346.0	333.0	306.9	277.3	265.4	264.3
57.5°	3524.3	3046.7	1263.2	394.6	325.9	321.1	321.1	298.6	279.7	274.9	274.9
60°	3932.0	3343.0	1219.4	357.9	299.8	302.2	324.7	318.8	304.6	310.5	314.0
62.5°	4248.4	3517.2	989.5	328.3	280.9	302.2	360.3	360.3	343.7	341.3	341.3
65°	4383.5	3514.8	695.6	305.7	273.7	331.8	401.7	382.8	338.9	322.3	318.8
67.5°	4349.1	3360.8	479.9	290.3	271.4	362.6	420.7	367.4	317.6	303.4	292.7
70°	4046.9	3034.9	369.7	276.1	267.8	349.6	414.8	349.6	301.0	288.0	278.5
72.5°	3264.8	2434.1	306.9	261.9	253.6	323.5	394.6	333.0	288.0	273.7	264.3
75°	2082.1	1531.1	259.5	242.9	226.3	290.3	367.4	316.4	273.7	254.8	247.7
77.5°	1001.4	660.1	226.3	220.4	203.8	269.0	340.1	295.1	254.8	239.4	234.6
80°	405.3	302.2	196.7	197.9	187.2	256.0	321.1	274.9	235.8	219.2	210.9
82.5°	210.9	175.4	165.9	170.6	170.6	244.1	306.9	258.3	219.2	212.1	184.9
85°	113.8	109.0	128.0	137.5	148.1	220.4	285.6	240.6	200.3	171.8	165.9
87.5°	55.7	71.1	72.3	83.0	103.1	176.6	240.6	201.5	167.1	138.6	136.3
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)