

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: P381117

Luminaire Tested: **PRV-PA1B-730-U-T2U**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381117  
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-PA1B-730-U-T2U  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

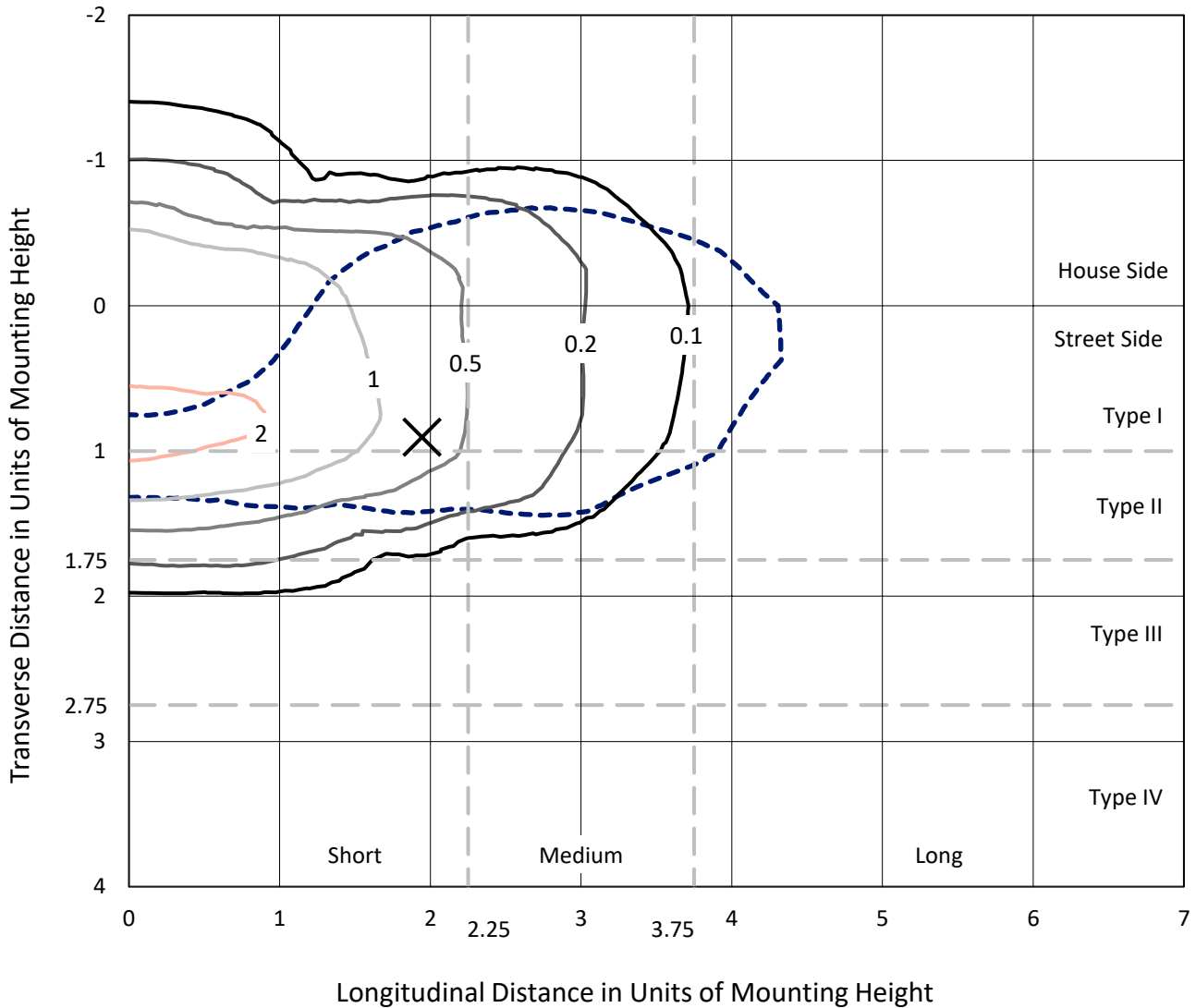
Lumens per Lamp: N/A  
Luminaire Lumens: 9003 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

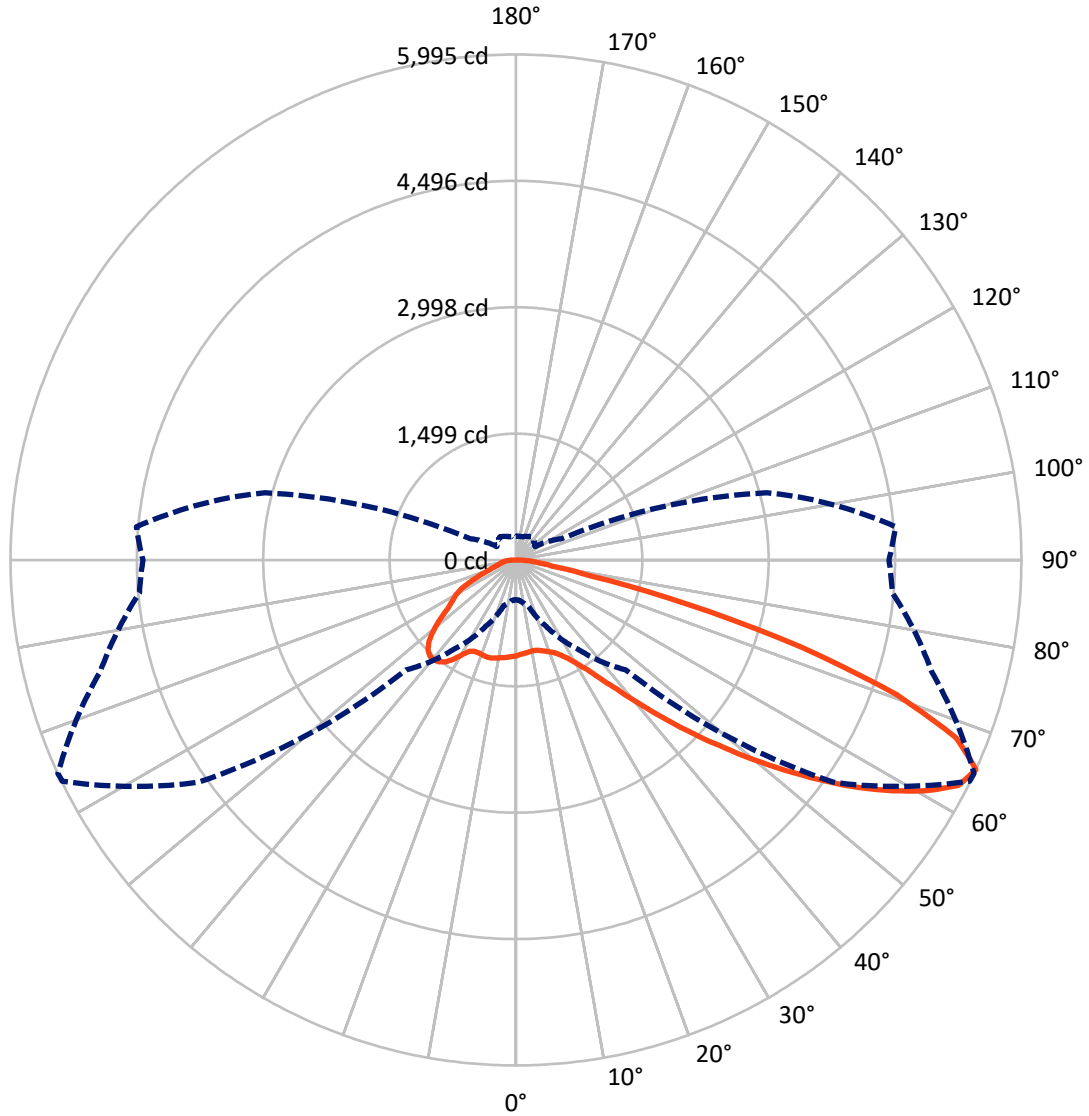
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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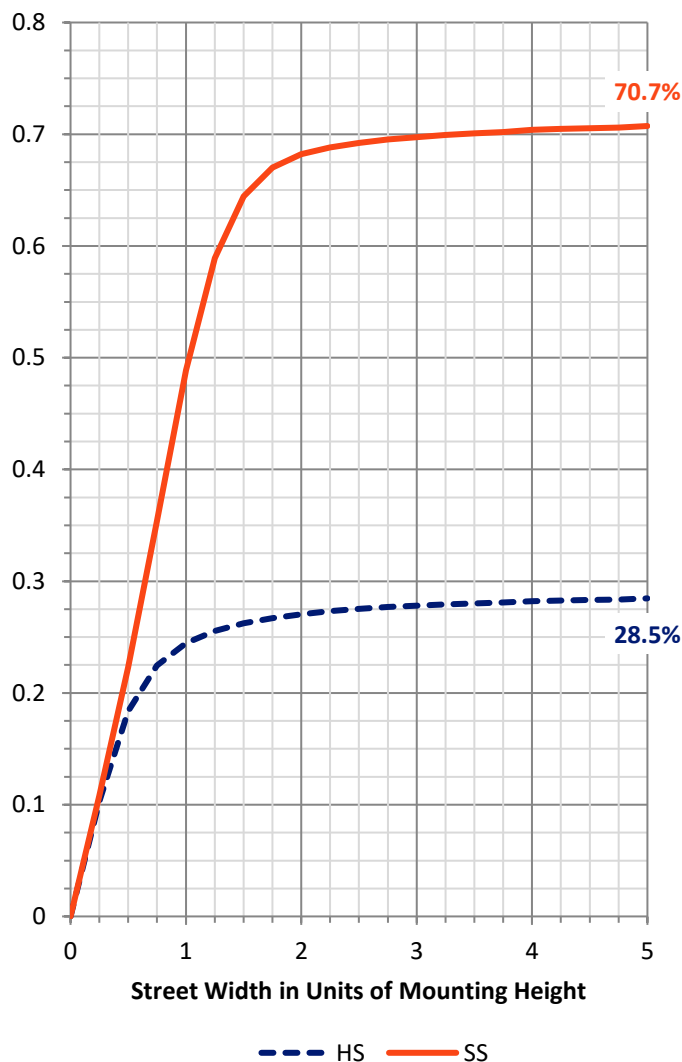
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2602.9	0.0	2602.9
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	6400.1	0.0	6400.1
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	9003.0	0.0	9003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	1.2
10°-20°	323.6	3.6
20°-30°	574.8	6.4
30°-40°	972.4	10.8
40°-50°	1692.7	18.8
50°-60°	2187.6	24.3
60°-70°	1914.2	21.3
70°-80°	1041.2	11.6
80°-90°	188.1	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°	9003.0	100.0
0°-180°	9003.0	100.0

**Coefficient of Utilization**

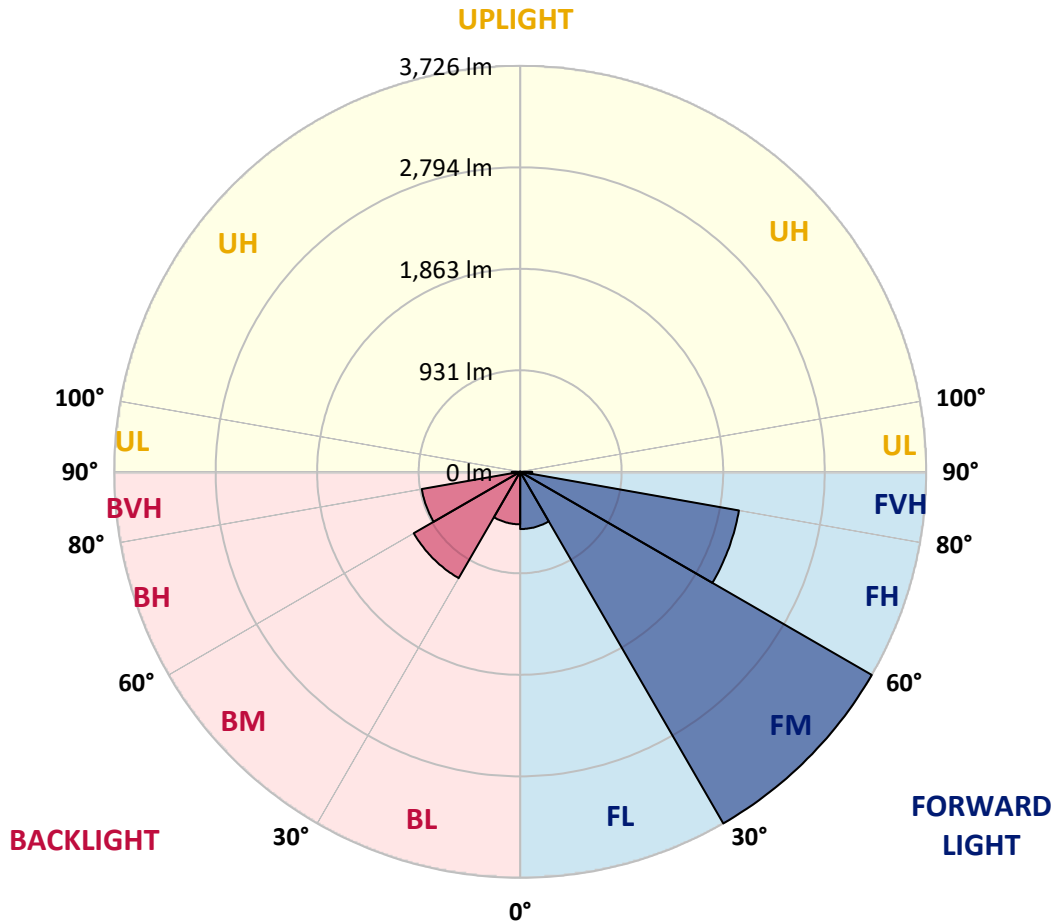


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.3	5.8			
FM (30°-60°)	3725.7	41.4			
FH (60°-80°)	2038.4	22.6			G2/5000
FVH (80°-90°)	110.7	1.2			G2/225
BL (0°-30°)	481.4	5.3	B1/500		
BM (30°-60°)	1127.0	12.5	B2/2500		
BH (60°-80°)	917.0	10.2	B2/1000		G2/1000
BVH (80°-90°)	77.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6
2.5°	1117.5	1116.3	1113.9	1116.3	1117.5	1119.8	1118.7	1121.0	1119.8	1123.4	1129.3
5°	1089.0	1086.7	1085.5	1091.4	1095.0	1100.9	1103.3	1111.5	1110.4	1116.3	1125.8
7.5°	1057.0	1057.0	1055.8	1063.0	1067.7	1078.4	1086.7	1100.9	1102.1	1112.7	1123.4
10°	1032.1	1033.3	1032.1	1038.1	1045.2	1058.2	1072.4	1092.6	1093.8	1109.2	1119.8
12.5°	1022.7	1022.7	1022.7	1031.0	1040.4	1058.2	1074.8	1096.1	1098.5	1115.1	1124.6
15°	1035.7	1036.9	1034.5	1042.8	1053.5	1074.8	1090.2	1112.7	1115.1	1130.5	1136.4
17.5°	1081.9	1086.7	1080.7	1085.5	1083.1	1099.7	1113.9	1136.4	1137.6	1150.7	1153.0
20°	1173.2	1177.9	1168.4	1162.5	1141.2	1140.0	1145.9	1163.7	1163.7	1172.0	1166.1
22.5°	1314.2	1318.9	1302.3	1279.8	1228.9	1204.0	1190.9	1199.2	1198.1	1201.6	1186.2
25°	1501.4	1500.2	1480.1	1438.6	1356.8	1296.4	1264.4	1251.4	1251.4	1244.3	1225.3
27.5°	1733.7	1715.9	1680.4	1630.6	1516.8	1432.7	1364.0	1330.8	1324.8	1303.5	1268.0
30°	1981.3	1968.3	1917.4	1845.1	1713.5	1605.7	1491.9	1425.6	1422.0	1375.8	1322.5
32.5°	2272.9	2251.5	2194.7	2108.1	1950.5	1798.9	1656.7	1555.9	1550.0	1476.5	1403.1
35°	2647.3	2629.6	2519.3	2432.8	2230.2	2031.1	1862.8	1728.9	1724.2	1634.1	1540.5
37.5°	3096.4	3050.2	2943.6	2781.2	2567.9	2332.1	2118.8	1950.5	1944.6	1845.1	1726.6
40°	3497.0	3455.5	3360.7	3211.4	2982.7	2720.8	2431.7	2227.8	2221.9	2101.0	1951.7
42.5°	3793.2	3764.8	3703.2	3616.7	3453.1	3294.3	2831.0	2563.2	2552.5	2396.1	2210.1
45°	3965.1	3942.5	3907.0	3928.3	3926.0	3896.3	3307.4	2962.5	2928.2	2725.5	2498.0
47.5°	3923.6	3903.4	3917.7	4083.6	4312.3	4484.1	3862.0	3371.4	3325.2	3060.9	2804.9
50°	3623.8	3632.1	3706.7	4024.3	4537.4	4919.0	4477.0	3837.1	3775.5	3398.6	3096.4
52.5°	3077.5	3097.6	3278.9	3723.3	4512.5	5201.0	5032.8	4318.2	4236.4	3728.1	3361.9
55°	2444.7	2495.6	2730.3	3197.2	4187.8	5221.2	5452.3	4801.7	4711.6	4037.4	3593.0
57.5°	1808.3	1884.2	2155.5	2584.5	3565.7	4902.4	5662.0	5263.8	5154.8	4344.3	3837.1
60°	1147.1	1193.3	1506.2	2012.2	2729.1	4122.7	5634.8	5657.3	5562.5	4650.0	4091.9
62.5°	732.3	754.9	912.5	1435.1	1907.9	3052.6	5337.3	5954.7	5890.7	4928.5	4333.6
65°	470.5	479.9	560.5	882.8	1298.8	1842.7	4596.7	5986.7	5995.0	5102.7	4482.9
67.5°	382.8	387.5	417.1	545.1	918.4	1017.9	3201.9	5531.7	5632.4	5057.7	4432.0
70°	348.4	354.3	385.1	434.9	711.0	702.7	1550.0	4628.7	4793.4	4798.1	4205.6
72.5°	293.9	302.2	343.7	411.2	549.8	554.6	656.5	3296.7	3539.6	4288.6	3865.5
75°	245.3	250.0	285.6	362.6	465.7	443.2	461.0	1747.9	2098.7	3438.9	3504.1
77.5°	199.1	203.8	229.9	289.1	413.6	344.8	362.6	724.0	894.7	2334.5	2864.2
80°	142.2	146.9	176.6	225.2	312.8	310.5	269.0	399.4	433.7	1262.0	1860.5
82.5°	101.9	105.5	133.9	161.2	216.9	311.7	202.6	271.4	284.4	559.3	750.1
85°	68.7	68.7	92.4	106.7	139.8	196.7	163.5	183.7	192.0	265.4	202.6
87.5°	29.6	29.6	49.8	54.5	73.5	91.2	122.1	92.4	94.8	143.4	83.0
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°	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6	1137.6
2.5°	1132.9	1134.1	1136.4	1143.5	1148.3	1155.4	1158.9	1163.7	1163.7	1161.3	1162.5
5°	1130.5	1134.1	1142.4	1155.4	1163.7	1176.7	1186.2	1193.3	1195.7	1193.3	1194.5
7.5°	1129.3	1135.2	1149.5	1168.4	1180.3	1196.9	1209.9	1218.2	1224.1	1221.8	1222.9
10°	1125.8	1135.2	1153.0	1176.7	1194.5	1211.1	1222.9	1226.5	1230.0	1227.7	1226.5
12.5°	1130.5	1141.2	1160.1	1188.6	1208.7	1221.8	1225.3	1219.4	1211.1	1206.3	1205.2
15°	1140.0	1150.7	1169.6	1199.2	1217.0	1221.8	1213.5	1194.5	1175.5	1164.9	1163.7
17.5°	1153.0	1160.1	1175.5	1201.6	1215.8	1209.9	1193.3	1170.8	1156.6	1148.3	1149.5
20°	1161.3	1161.3	1173.2	1193.3	1205.2	1200.4	1180.3	1155.4	1132.9	1122.2	1118.7
22.5°	1173.2	1167.2	1168.4	1186.2	1202.8	1195.7	1153.0	1109.2	1077.2	1065.3	1064.1
25°	1205.2	1188.6	1177.9	1188.6	1227.7	1169.6	1084.3	1033.3	1003.7	993.0	994.2
27.5°	1244.3	1221.8	1199.2	1217.0	1247.8	1110.4	996.6	938.5	920.8	912.5	916.0
30°	1283.4	1253.7	1224.1	1288.1	1233.6	1017.9	884.0	827.1	811.7	805.8	810.6
32.5°	1355.7	1307.1	1271.5	1382.9	1189.8	912.5	762.0	709.8	695.6	688.5	686.1
35°	1476.5	1414.9	1379.4	1465.9	1128.1	795.1	650.6	613.8	598.4	583.0	580.7
37.5°	1650.7	1576.1	1544.1	1513.3	1041.6	679.0	565.3	540.4	517.9	494.2	493.0
40°	1859.3	1762.1	1738.4	1534.6	921.9	570.0	506.0	482.3	453.9	431.3	432.5
42.5°	2099.8	1975.4	1924.5	1528.7	773.8	511.9	463.3	437.3	412.4	392.2	391.1
45°	2357.0	2216.0	2098.7	1487.2	626.9	471.6	437.3	406.5	381.6	359.1	356.7
47.5°	2641.4	2483.8	2259.8	1406.6	517.9	443.2	421.9	378.0	355.5	341.3	341.3
50°	2928.2	2739.8	2408.0	1284.6	453.9	421.9	399.4	362.6	344.8	333.0	333.0
52.5°	3173.5	3006.4	2530.0	1138.8	413.6	404.1	383.9	355.5	336.5	325.9	324.7
55°	3411.7	3254.1	2639.0	994.2	380.4	380.4	380.4	349.6	328.2	318.8	317.6
57.5°	3648.7	3514.8	2752.8	899.4	350.8	360.2	373.3	342.5	321.1	312.8	311.7
60°	3916.5	3827.6	2884.3	833.1	324.7	338.9	363.8	334.2	309.3	302.2	301.0
62.5°	4200.9	4200.9	3004.0	739.5	301.0	321.1	349.6	323.5	298.6	292.7	291.5
65°	4423.7	4519.7	3081.0	599.6	277.3	303.4	333.0	309.3	284.4	283.2	280.8
67.5°	4449.7	4600.2	3032.5	452.7	256.0	284.4	316.4	293.9	270.2	270.2	266.6
70°	4262.5	4415.4	2880.8	338.9	240.6	265.4	295.1	274.9	252.4	254.8	248.9
72.5°	3949.7	3987.6	2503.9	267.8	222.8	245.3	269.0	253.6	233.4	233.4	225.2
75°	3537.3	3326.3	1819.0	224.0	201.5	221.6	242.9	229.9	212.1	206.2	201.5
77.5°	2815.6	2410.3	1057.0	193.2	183.7	199.1	213.3	203.8	188.4	175.4	175.4
80°	1715.9	1412.5	466.9	167.1	162.3	174.2	183.7	173.0	160.0	146.9	143.4
82.5°	652.9	545.1	226.3	143.4	142.2	149.3	156.4	145.8	136.3	130.4	112.6
85°	178.9	164.7	155.2	119.7	117.3	116.1	124.4	119.7	106.7	87.7	78.2
87.5°	67.5	77.0	84.1	73.5	78.2	72.3	83.0	75.8	67.5	43.8	39.1
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)