

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: P380997

Luminaire Tested: **PRV-PA1B-740-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380997
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-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 9738 lumens
Efficiency: N/A
Efficacy: 131.6 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

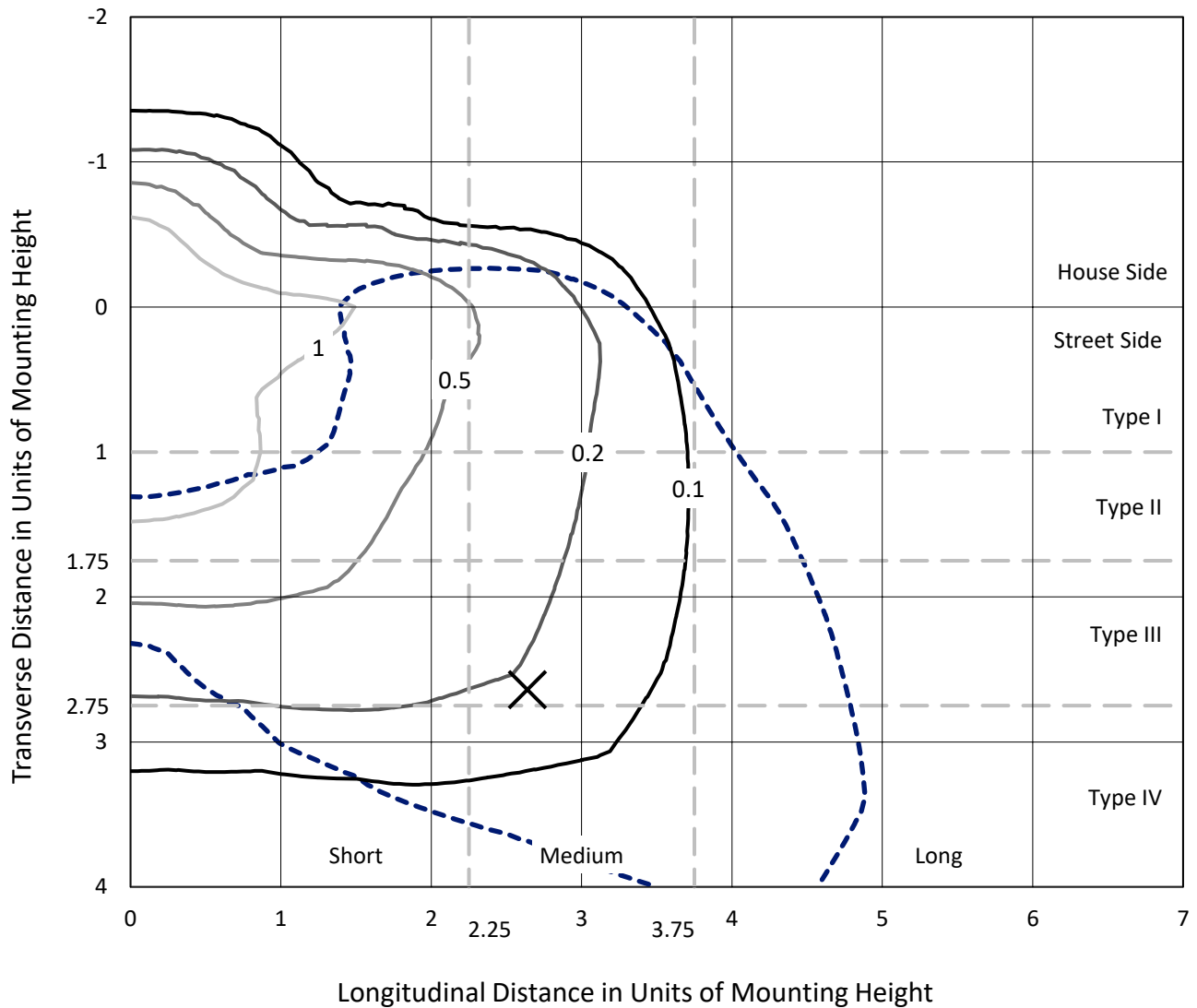
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

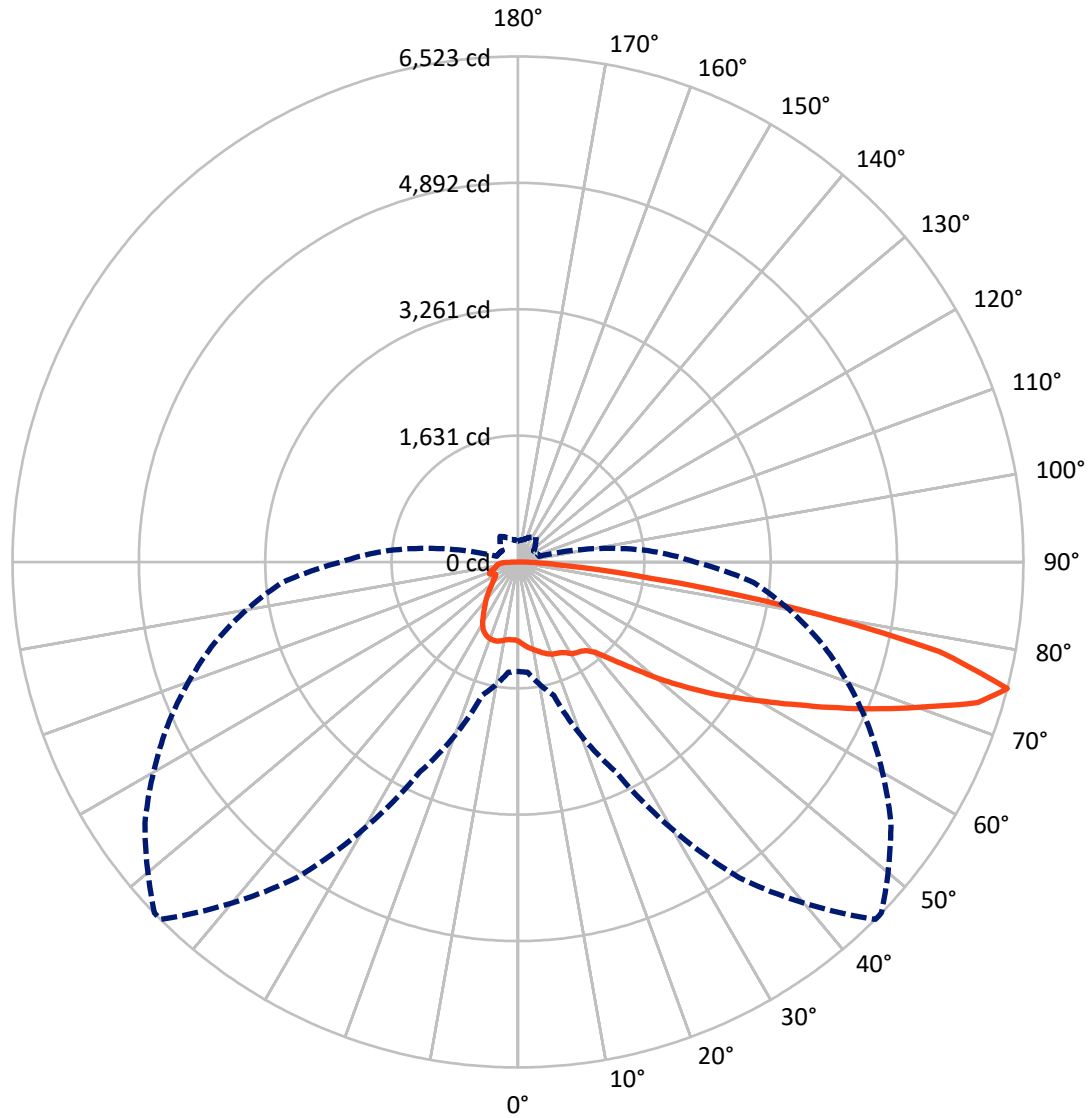
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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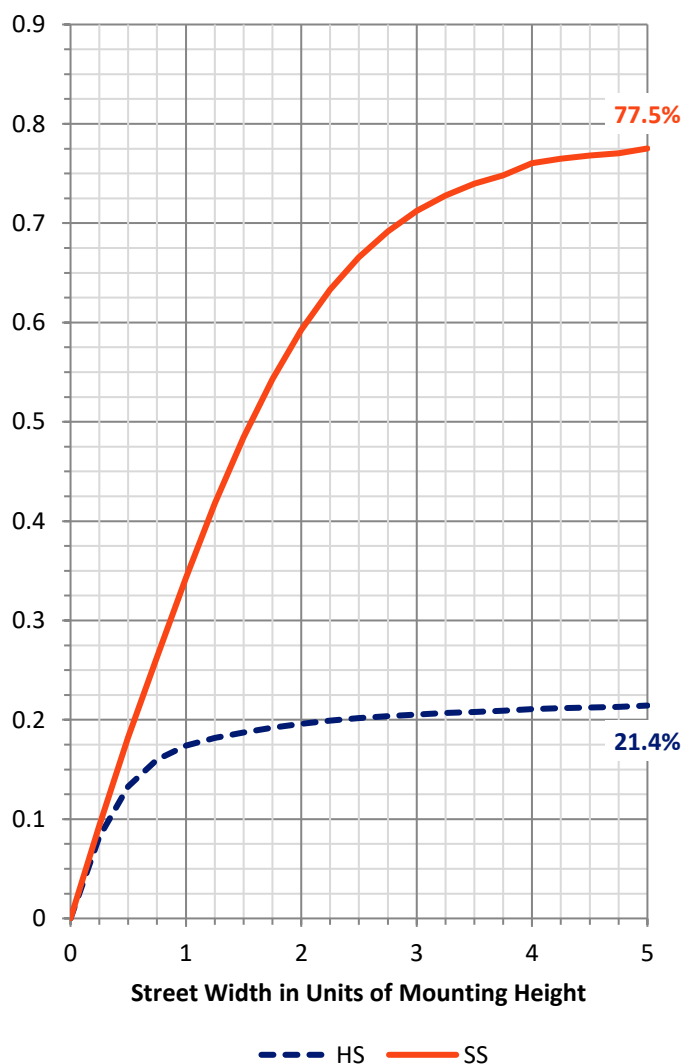
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2152.1	0.0	2152.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	7586.0	0.0	7586.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	9738.0	0.0	9738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.0
10°-20°	321.9	3.3
20°-30°	548.7	5.6
30°-40°	768.9	7.9
40°-50°	1129.6	11.6
50°-60°	1797.7	18.5
60°-70°	2557.3	26.3
70°-80°	2141.2	22.0
80°-90°	371.6	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°	9738.0	100.0
0°-180°	9738.0	100.0

Coefficient of Utilization



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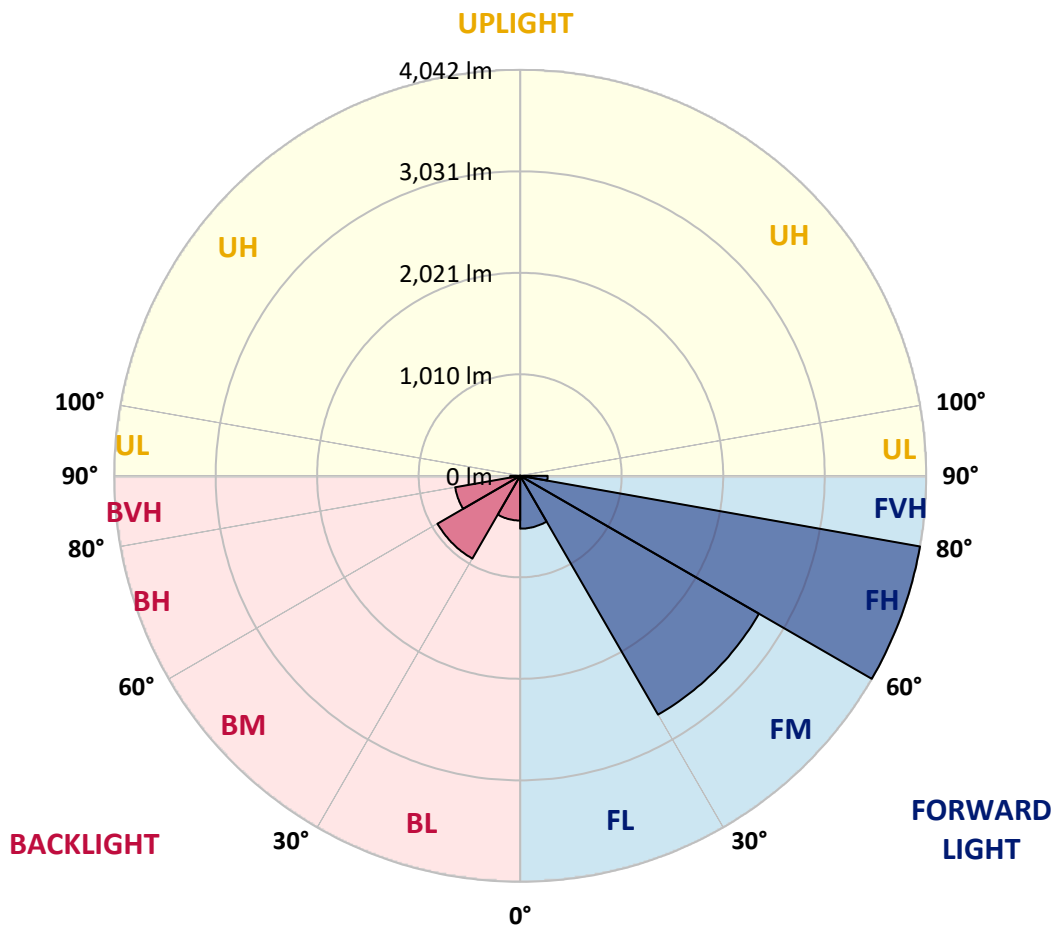
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.4	5.4			
FM (30°-60°)	2744.8	28.2			
FH (60°-80°)	4041.5	41.5			G2/5000
FVH (80°-90°)	273.2	2.8			G3/500
BL (0°-30°)	445.4	4.6	B1/500		
BM (30°-60°)	951.3	9.8	B1/1000		
BH (60°-80°)	656.9	6.7	B2/1000		G2/1000
BVH (80°-90°)	98.4	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°	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1081.3	1076.1	1073.4	1073.4	1063.0	1056.5	1055.2	1046.1	1038.3	1030.5	1024.0
5°	1143.7	1139.8	1132.0	1125.5	1111.2	1093.0	1090.4	1070.8	1051.3	1033.1	1017.5
7.5°	1201.0	1193.2	1184.0	1171.0	1147.6	1122.9	1119.0	1091.7	1064.3	1037.0	1016.2
10°	1249.1	1241.3	1228.3	1210.1	1180.1	1150.2	1146.3	1117.7	1089.1	1056.5	1026.6
12.5°	1294.6	1288.1	1268.6	1243.9	1208.8	1181.4	1177.5	1152.8	1122.9	1086.5	1047.4
15°	1333.7	1327.2	1306.4	1277.7	1237.4	1216.6	1211.4	1187.9	1158.0	1119.0	1078.7
17.5°	1353.2	1353.2	1331.1	1299.8	1262.1	1246.5	1242.6	1214.0	1186.6	1148.9	1108.6
20°	1359.7	1362.3	1346.7	1309.0	1276.4	1269.9	1266.0	1242.6	1211.4	1174.9	1137.2
22.5°	1363.6	1368.8	1355.8	1312.9	1285.5	1281.6	1279.0	1263.4	1238.7	1203.6	1165.8
25°	1376.6	1376.6	1367.5	1319.4	1297.2	1295.9	1295.9	1286.8	1269.9	1240.0	1202.3
27.5°	1396.1	1394.8	1383.1	1333.7	1323.3	1327.2	1325.9	1324.6	1312.9	1282.9	1242.6
30°	1428.7	1428.7	1415.7	1362.3	1355.8	1372.7	1374.0	1376.6	1358.4	1311.6	1279.0
32.5°	1478.1	1472.9	1459.9	1390.9	1380.5	1396.1	1398.7	1397.4	1381.8	1337.6	1322.0
35°	1630.3	1618.6	1571.8	1454.7	1402.6	1411.7	1413.0	1419.6	1422.2	1387.0	1379.2
37.5°	1897.1	1881.5	1809.9	1605.6	1472.9	1450.8	1449.5	1466.4	1480.7	1449.5	1449.5
40°	2187.2	2174.2	2132.6	1865.8	1603.0	1530.2	1524.9	1540.6	1558.8	1536.7	1543.2
42.5°	2437.1	2447.5	2451.4	2141.7	1798.2	1678.5	1664.2	1642.0	1670.7	1651.2	1677.2
45°	2624.4	2619.2	2690.8	2424.0	2050.6	1864.5	1845.0	1785.2	1821.6	1820.3	1877.6
47.5°	2823.5	2814.4	2844.3	2689.5	2338.2	2092.2	2062.3	1973.8	2028.5	2066.2	2161.2
50°	3012.2	3014.8	3025.2	2899.0	2650.4	2369.4	2331.7	2213.3	2291.3	2370.7	2504.7
52.5°	3258.1	3239.9	3226.8	3143.6	3000.4	2658.2	2633.5	2498.2	2607.5	2701.2	2879.4
55°	3472.8	3461.1	3453.2	3449.3	3293.2	2977.0	2951.0	2810.5	2967.9	3034.3	3297.1
57.5°	3701.8	3695.3	3736.9	3803.3	3740.8	3301.0	3273.7	3138.4	3314.0	3360.9	3749.9
60°	3869.6	3873.5	3988.0	4157.2	4114.2	3652.3	3619.8	3500.1	3651.0	3692.7	4202.7
62.5°	3870.9	3910.0	4175.4	4478.6	4528.0	4057.0	4019.2	3889.1	3997.1	3997.1	4608.7
65°	3501.4	3545.6	4141.6	4557.9	4947.0	4538.4	4502.0	4297.7	4338.0	4283.4	4989.9
67.5°	3133.2	3185.2	3746.0	4564.4	5241.0	5053.7	5010.7	4706.3	4637.3	4499.4	5256.6
70°	2888.6	2925.0	3393.4	4479.9	5418.0	5592.3	5559.8	5094.0	4872.8	4680.2	5200.7
72.5°	2431.8	2418.8	2866.4	4077.8	5516.9	6203.9	6176.6	5515.6	5077.1	4594.4	4435.6
75°	1411.7	1427.4	1778.7	2987.4	4973.0	6522.7	6520.1	5876.0	4987.3	4058.3	3056.4
77.5°	407.3	419.0	584.2	1312.9	3144.9	5563.7	5742.0	5373.7	4215.7	2892.5	1584.8
80°	178.3	187.4	253.7	437.2	1354.5	3634.1	3790.2	3634.1	2542.4	1327.2	621.9
82.5°	105.4	111.9	165.2	270.6	649.3	1729.2	1940.0	1694.1	1096.9	563.4	257.6
85°	59.9	62.5	95.0	171.8	408.6	605.0	679.2	636.3	534.8	320.1	135.3
87.5°	27.3	28.6	46.8	80.7	229.0	204.3	212.1	281.0	309.7	195.2	67.7
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°	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1021.4	1017.5	1009.7	1007.1	1003.2	1004.5	1005.8	1005.8	1007.1	1003.2	1003.2
5°	1011.0	1004.5	996.7	996.7	996.7	1007.1	1016.2	1021.4	1024.0	1024.0	1021.4
7.5°	1007.1	999.3	990.2	992.8	995.4	1008.4	1025.3	1042.2	1047.4	1047.4	1044.8
10°	1014.9	1007.1	1000.6	1004.5	1011.0	1021.4	1034.4	1050.0	1063.0	1064.3	1063.0
12.5°	1033.1	1024.0	1017.5	1025.3	1033.1	1039.6	1046.1	1052.6	1069.5	1072.1	1072.1
15°	1063.0	1053.9	1046.1	1052.6	1055.2	1055.2	1055.2	1055.2	1072.1	1074.7	1074.7
17.5°	1093.0	1085.2	1077.4	1078.7	1070.8	1060.4	1056.5	1055.2	1064.3	1072.1	1073.4
20°	1121.6	1115.1	1107.3	1094.3	1074.7	1055.2	1048.7	1048.7	1053.9	1065.6	1065.6
22.5°	1152.8	1145.0	1132.0	1102.1	1069.5	1042.2	1035.7	1039.6	1046.1	1061.7	1060.4
25°	1187.9	1177.5	1155.4	1099.5	1052.6	1020.1	1021.4	1033.1	1044.8	1061.7	1061.7
27.5°	1227.0	1212.7	1168.4	1078.7	1014.9	983.7	995.4	1022.7	1039.6	1057.8	1060.4
30°	1269.9	1256.9	1178.8	1042.2	953.7	925.1	953.7	998.0	1024.0	1040.9	1044.8
32.5°	1322.0	1311.6	1187.9	995.4	874.4	849.7	891.3	945.9	987.6	1007.1	1011.0
35°	1387.0	1376.6	1199.7	942.0	800.2	774.2	811.9	867.9	922.5	947.2	955.0
37.5°	1471.6	1456.0	1210.1	884.8	737.8	707.8	726.0	776.8	826.2	860.1	869.2
40°	1579.6	1554.9	1219.2	819.7	683.1	649.3	655.8	680.5	709.1	739.1	750.8
42.5°	1731.8	1682.4	1220.5	750.8	627.2	595.9	593.3	601.1	601.1	601.1	605.0
45°	1943.9	1850.2	1223.1	685.7	569.9	537.4	529.6	527.0	507.4	469.7	467.1
47.5°	2212.0	2070.1	1234.8	631.1	510.1	481.4	471.0	460.6	424.2	385.1	377.3
50°	2555.5	2325.2	1258.2	579.0	459.3	439.8	426.8	402.1	361.7	331.8	324.0
52.5°	2951.0	2628.3	1280.3	524.4	421.6	408.6	392.9	363.0	320.1	301.9	299.3
55°	3405.1	2966.6	1324.6	476.2	389.0	379.9	365.6	337.0	304.5	291.5	290.2
57.5°	3869.6	3345.3	1387.0	433.3	357.8	352.6	352.6	327.9	307.1	301.9	301.9
60°	4317.2	3670.5	1338.9	392.9	329.2	331.8	356.5	350.0	334.4	340.9	344.8
62.5°	4664.6	3861.8	1086.5	360.4	308.4	331.8	395.5	395.5	377.3	374.7	374.7
65°	4813.0	3859.2	763.8	335.7	300.6	364.3	441.1	420.3	372.1	353.9	350.0
67.5°	4775.2	3690.1	527.0	318.8	298.0	398.2	461.9	403.4	348.7	333.1	321.4
70°	4443.4	3332.2	406.0	303.2	294.1	383.8	455.4	383.8	330.5	316.2	305.8
72.5°	3584.7	2672.6	337.0	287.6	278.4	355.2	433.3	365.6	316.2	300.6	290.2
75°	2286.1	1681.1	285.0	266.7	248.5	318.8	403.4	347.4	300.6	279.7	271.9
77.5°	1099.5	724.7	248.5	242.0	223.8	295.4	373.4	324.0	279.7	262.8	257.6
80°	445.0	331.8	216.0	217.3	205.6	281.0	352.6	301.9	258.9	240.7	231.6
82.5°	231.6	192.6	182.2	187.4	187.4	268.0	337.0	283.7	240.7	232.9	203.0
85°	124.9	119.7	140.5	150.9	162.6	242.0	313.6	264.1	219.9	188.7	182.2
87.5°	61.2	78.1	79.4	91.1	113.2	193.9	264.1	221.2	183.5	152.2	149.6
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)