

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: P380933

Luminaire Tested: **PRV-PA1B-740-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-740-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9857 lumens
Efficiency: N/A
Efficacy: 133.2 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

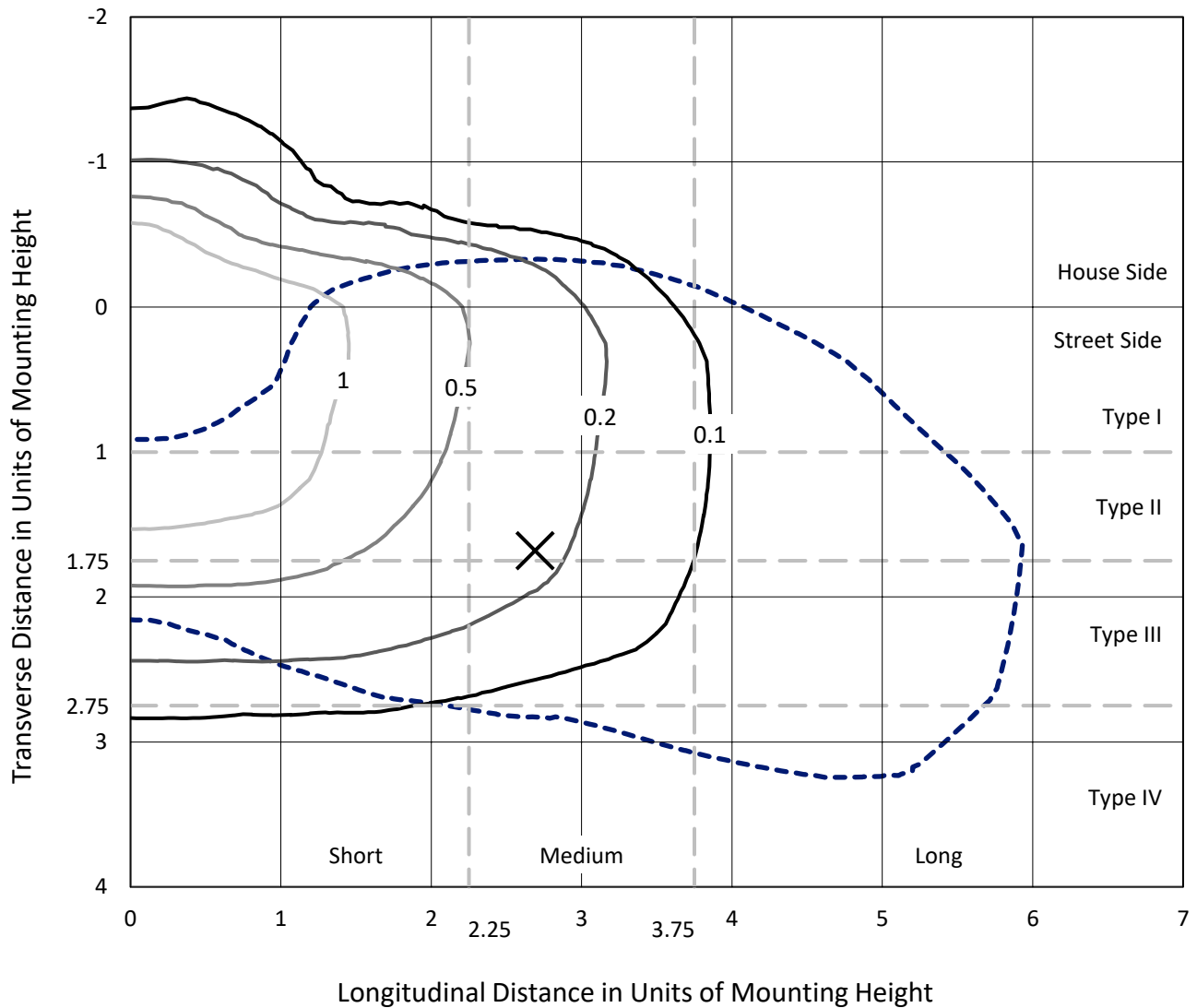
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

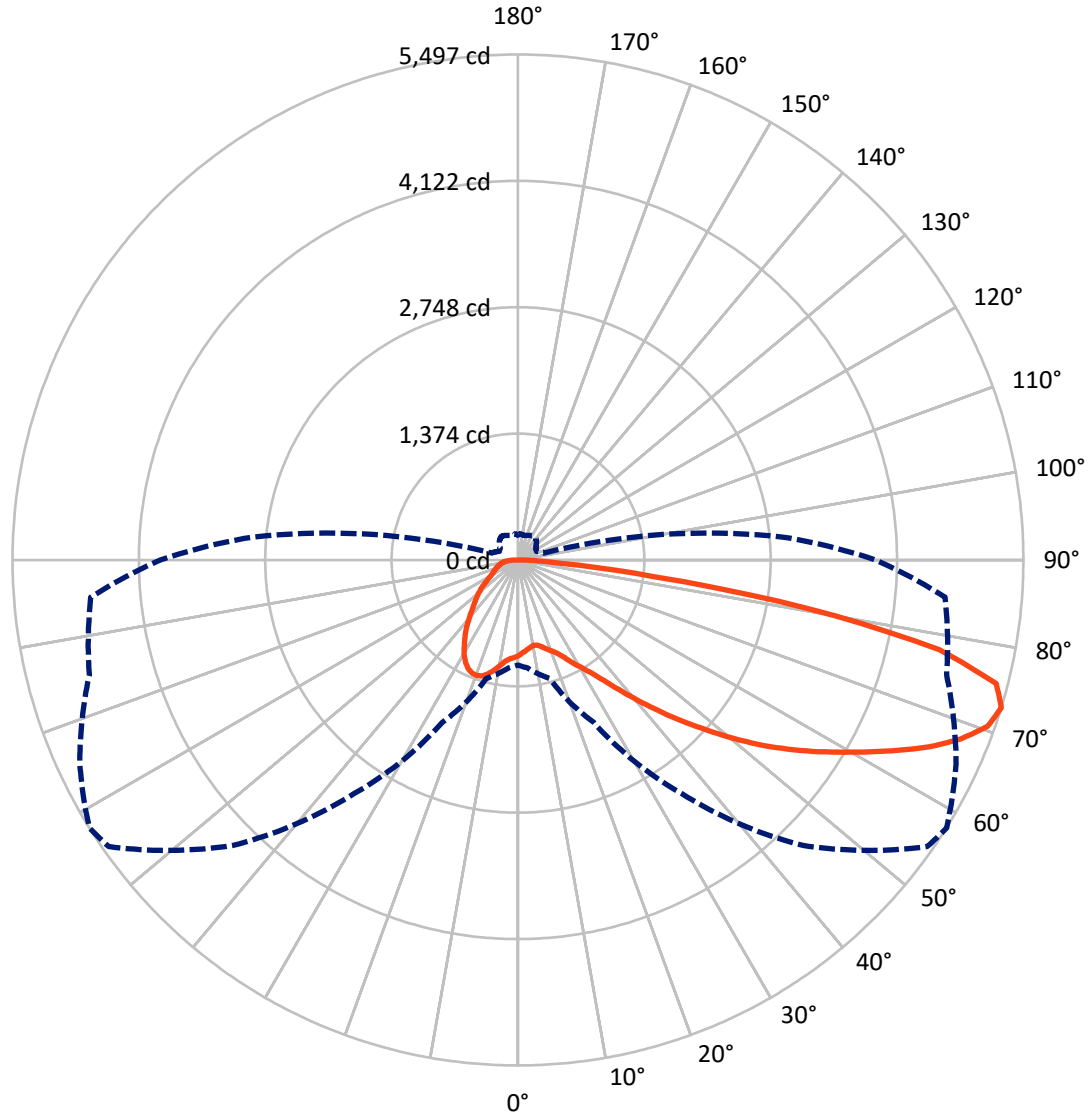
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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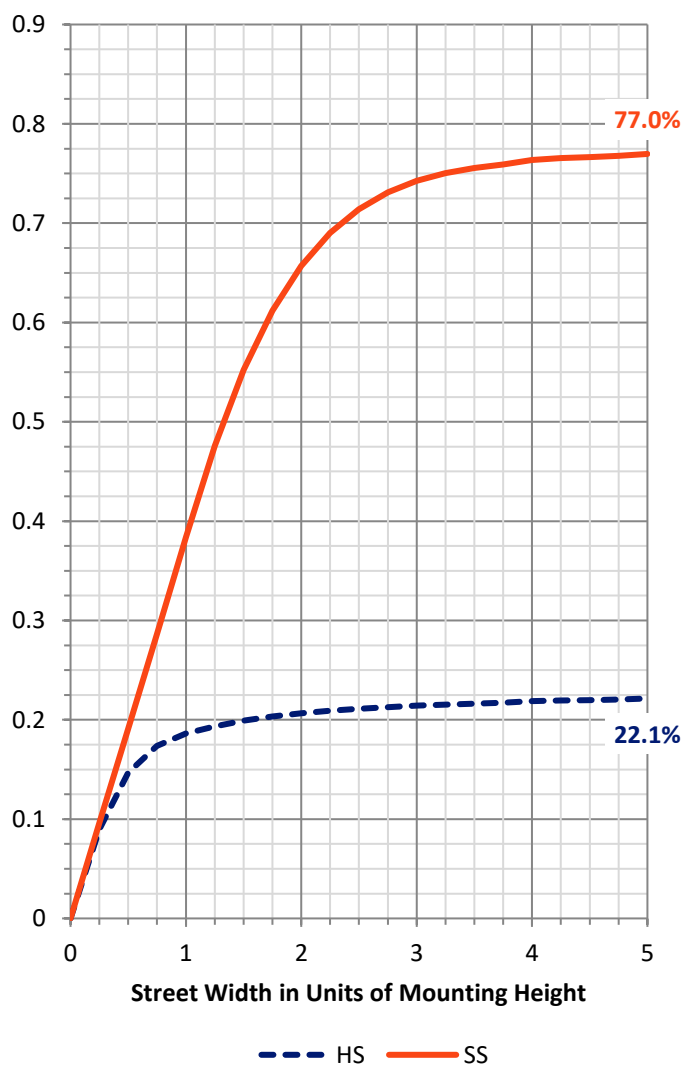
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.5	0.0	2235.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	7621.5	0.0	7621.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	9857.0	0.0	9857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.0
10°-20°	318.1	3.2
20°-30°	569.8	5.8
30°-40°	857.1	8.7
40°-50°	1387.9	14.1
50°-60°	2089.3	21.2
60°-70°	2458.9	24.9
70°-80°	1743.6	17.7
80°-90°	332.2	3.4
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°	9857.0	100.0
0°-180°	9857.0	100.0

Coefficient of Utilization

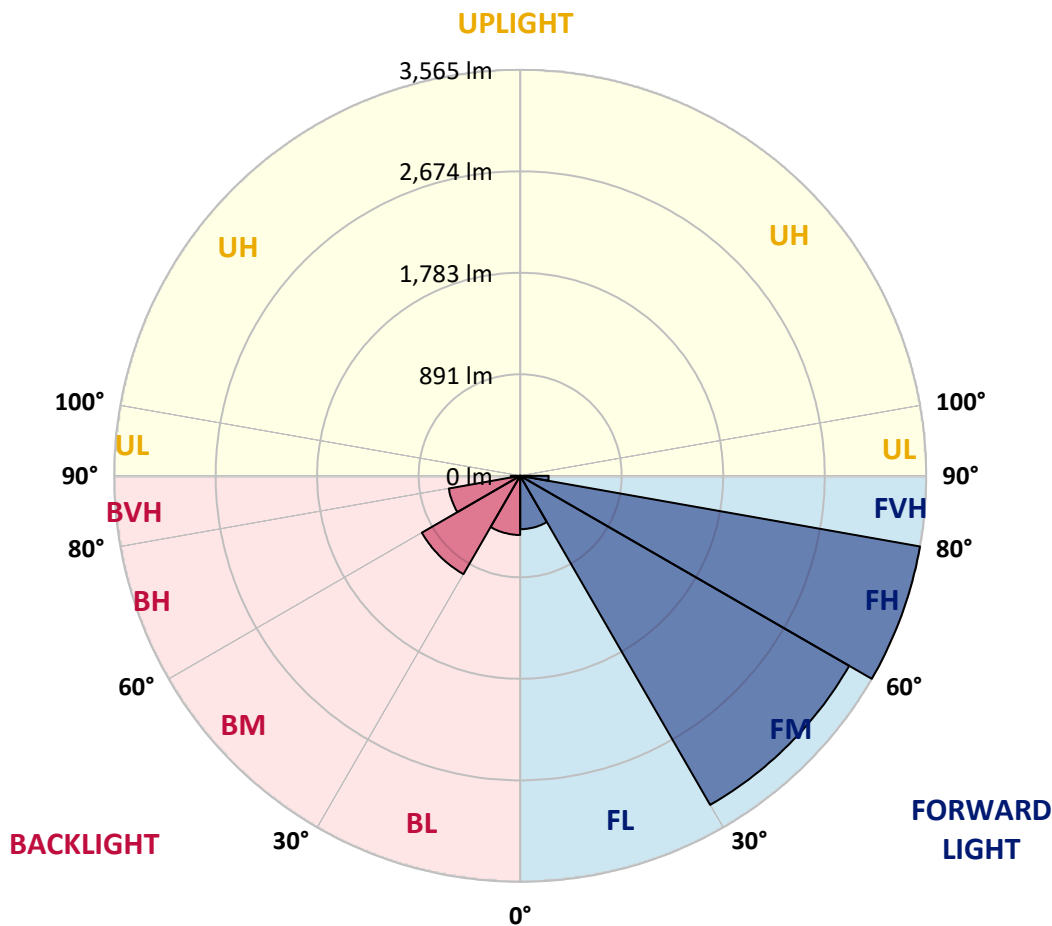


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.7	4.8			
FM (30°-60°)	3336.9	33.9			
FH (60°-80°)	3565.3	36.2			G2/5000
FVH (80°-90°)	250.6	2.5			G3/500
BL (0°-30°)	519.3	5.3	B2/1000		
BM (30°-60°)	997.4	10.1	B1/1000		
BH (60°-80°)	637.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	81.6	0.8			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°	55°	58°	65°	75°	85°
0°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1000.7	995.5	996.8	996.8	1002.0	1004.6	1005.9	1009.8	1012.4	1018.9	1028.0
5°	953.8	949.9	951.2	952.5	961.6	970.7	978.5	983.7	991.6	1002.0	1015.0
7.5°	920.0	917.4	918.7	921.3	929.1	939.5	952.5	960.3	972.0	991.6	1013.7
10°	895.3	895.3	896.6	901.8	909.6	922.6	933.0	942.1	965.5	1000.7	1034.5
12.5°	875.7	875.7	879.6	890.1	903.1	916.1	940.8	951.2	982.4	1030.6	1070.9
15°	874.4	875.7	877.0	886.2	900.5	929.1	965.5	981.1	1018.9	1076.1	1123.0
17.5°	895.3	896.6	891.4	894.0	910.9	951.2	999.4	1017.6	1065.7	1128.2	1176.3
20°	959.0	959.0	943.4	929.1	940.8	985.1	1039.7	1057.9	1111.3	1180.2	1228.4
22.5°	1089.2	1095.7	1059.2	1028.0	1009.8	1034.5	1083.9	1103.5	1163.3	1237.5	1285.6
25°	1246.6	1253.1	1203.7	1159.4	1125.6	1121.7	1154.2	1175.0	1224.5	1301.3	1341.6
27.5°	1398.9	1387.1	1341.6	1300.0	1257.0	1221.9	1246.6	1264.8	1322.1	1380.6	1405.4
30°	1518.6	1509.5	1465.2	1435.3	1394.9	1349.4	1335.1	1354.6	1401.5	1456.1	1469.1
32.5°	1651.3	1644.8	1600.5	1561.5	1527.7	1484.7	1453.5	1462.6	1488.6	1527.7	1535.5
35°	1820.5	1834.8	1787.9	1708.5	1670.8	1629.2	1607.1	1609.7	1629.2	1653.9	1640.9
37.5°	1998.7	2015.6	2018.2	1893.3	1842.6	1804.8	1781.4	1790.5	1814.0	1830.9	1790.5
40°	2329.2	2312.3	2244.7	2152.3	2074.2	2037.8	2005.2	2003.9	2020.9	2050.8	1977.9
42.5°	2767.8	2752.2	2615.5	2495.8	2372.2	2330.6	2266.8	2239.5	2247.3	2285.0	2183.5
45°	3188.1	3181.6	3072.3	2933.0	2784.7	2704.0	2558.3	2491.9	2485.4	2515.3	2394.3
47.5°	3561.5	3532.9	3453.5	3345.5	3329.9	3119.1	2851.1	2761.3	2730.0	2747.0	2611.6
50°	3961.0	3863.4	3754.1	3687.8	3801.0	3604.5	3146.4	3052.7	2976.0	2987.7	2847.1
52.5°	4173.1	4009.2	3937.6	3957.1	4109.4	4033.9	3467.8	3353.3	3229.7	3246.6	3081.4
55°	3991.0	3989.7	4020.9	4141.9	4354.0	4266.8	3773.6	3644.8	3509.5	3513.4	3350.7
57.5°	3741.1	3791.9	3953.2	4220.0	4657.2	4511.5	4074.2	3937.6	3814.0	3794.5	3656.5
60°	3513.4	3569.3	3803.6	4207.0	4762.6	4735.3	4360.5	4240.8	4140.6	4083.3	3977.9
62.5°	3167.3	3208.9	3540.7	4123.7	4674.1	4896.6	4650.7	4568.7	4493.2	4374.8	4324.1
65°	2760.0	2774.3	3124.3	3849.1	4563.5	4959.1	4939.6	4903.1	4830.3	4655.9	4666.3
67.5°	2318.8	2347.5	2654.6	3410.6	4321.5	4930.5	5163.4	5193.3	5107.4	4845.9	4884.9
70°	1849.1	1884.2	2117.1	2804.2	3910.3	4806.8	5370.3	5418.4	5253.2	4908.3	4925.3
72.5°	1143.8	1177.6	1333.8	1948.0	3099.6	4391.7	5434.0	5496.5	5257.1	4825.1	4662.4
75°	395.6	399.5	521.8	934.3	1840.0	3315.6	5225.8	5372.9	5091.8	4521.9	4057.3
77.5°	180.9	187.4	231.6	385.2	815.9	1789.2	4315.0	4683.2	4589.5	4048.2	3123.0
80°	124.9	127.5	160.1	230.3	471.1	629.8	2723.5	3203.7	3367.7	3134.7	2001.3
82.5°	93.7	96.3	123.6	156.2	339.6	305.8	1037.1	1488.6	1850.4	1816.6	836.7
85°	89.8	88.5	96.3	104.1	226.4	182.2	335.7	460.6	722.2	618.1	210.8
87.5°	39.0	42.9	98.9	58.6	118.4	84.6	145.7	170.5	219.9	191.3	75.5
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°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1031.9	1034.5	1042.3	1054.0	1060.5	1073.5	1082.6	1087.9	1091.8	1093.1	1093.1
5°	1022.8	1028.0	1044.9	1064.4	1082.6	1110.0	1134.7	1149.0	1159.4	1163.3	1164.6
7.5°	1025.4	1038.4	1063.1	1091.8	1115.2	1150.3	1180.2	1208.9	1232.3	1241.4	1241.4
10°	1050.1	1068.3	1102.2	1139.9	1169.8	1206.3	1237.5	1262.2	1289.5	1305.2	1307.8
12.5°	1087.9	1110.0	1154.2	1195.9	1229.7	1258.3	1286.9	1305.2	1318.2	1329.9	1332.5
15°	1141.2	1168.5	1212.8	1255.7	1285.6	1303.9	1311.7	1311.7	1310.4	1311.7	1314.3
17.5°	1194.6	1220.6	1264.8	1307.8	1322.1	1311.7	1302.6	1300.0	1298.7	1296.1	1297.4
20°	1246.6	1271.3	1309.1	1341.6	1329.9	1293.4	1281.7	1280.4	1276.5	1273.9	1271.3
22.5°	1298.7	1316.9	1348.1	1359.8	1313.0	1260.9	1246.6	1238.8	1233.6	1227.1	1220.6
25°	1358.5	1363.7	1387.1	1368.9	1271.3	1201.1	1180.2	1168.5	1163.3	1156.8	1151.6
27.5°	1414.5	1414.5	1418.4	1354.6	1210.2	1121.7	1090.5	1069.6	1068.3	1067.0	1065.7
30°	1465.2	1458.7	1445.7	1311.7	1130.8	1024.1	977.2	956.4	964.2	970.7	972.0
32.5°	1525.1	1512.1	1475.6	1253.1	1035.8	914.8	857.5	848.4	857.5	865.3	860.1
35°	1618.8	1595.3	1506.9	1185.4	944.7	814.6	759.9	746.9	744.3	743.0	732.6
37.5°	1752.8	1712.5	1531.6	1112.6	854.9	726.1	685.8	658.4	633.7	607.7	603.8
40°	1916.8	1847.8	1548.5	1029.3	759.9	651.9	609.0	573.9	532.2	486.7	481.5
42.5°	2096.3	1993.5	1556.3	936.9	676.7	590.8	537.4	493.2	446.3	411.2	404.7
45°	2290.2	2151.0	1549.8	848.4	609.0	538.7	478.9	430.7	393.0	368.3	363.1
47.5°	2478.9	2331.9	1531.6	778.2	556.9	494.5	433.3	389.1	360.4	333.1	326.6
50°	2720.9	2504.9	1509.5	723.5	499.7	450.2	404.7	357.8	325.3	312.3	309.7
52.5°	2989.0	2678.0	1483.4	654.5	443.7	415.1	386.5	344.8	334.4	309.7	305.8
55°	3279.2	2883.6	1478.2	567.3	394.3	390.4	368.3	356.5	359.1	309.7	303.2
57.5°	3585.0	3103.5	1489.9	480.2	353.9	368.3	376.1	367.0	363.1	316.2	303.2
60°	3903.8	3315.6	1454.8	399.5	322.7	350.0	385.2	361.7	333.1	313.6	304.5
62.5°	4213.5	3493.9	1302.6	342.2	299.3	344.8	380.0	342.2	309.7	309.7	305.8
65°	4438.6	3573.3	1018.9	300.6	283.7	338.3	370.9	329.2	303.2	312.3	307.1
67.5°	4464.6	3491.3	684.5	268.1	270.7	326.6	350.0	317.5	296.7	320.1	312.3
70°	4304.6	3277.9	419.0	243.3	253.7	305.8	331.8	305.8	287.6	313.6	301.9
72.5°	3889.5	2879.7	295.4	222.5	235.5	286.3	314.9	295.4	274.6	283.7	272.0
75°	3190.7	2231.7	234.2	203.0	217.3	268.1	300.6	279.8	259.0	255.0	247.2
77.5°	2260.3	1430.1	188.7	187.4	197.8	245.9	281.1	261.6	240.7	232.9	227.7
80°	1300.0	701.4	162.7	169.2	179.6	223.8	257.6	240.7	221.2	209.5	201.7
82.5°	497.1	244.6	143.1	147.0	158.8	200.4	234.2	219.9	200.4	210.8	177.0
85°	161.4	134.0	117.1	121.0	132.7	166.6	206.9	195.2	173.1	153.5	141.8
87.5°	71.6	72.9	62.5	69.0	83.3	110.6	150.9	143.1	126.2	105.4	101.5
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)