

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: P380925

Luminaire Tested: **PRV-PA1B-730-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380925
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-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8977 lumens
Efficiency: N/A
Efficacy: 121.3 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

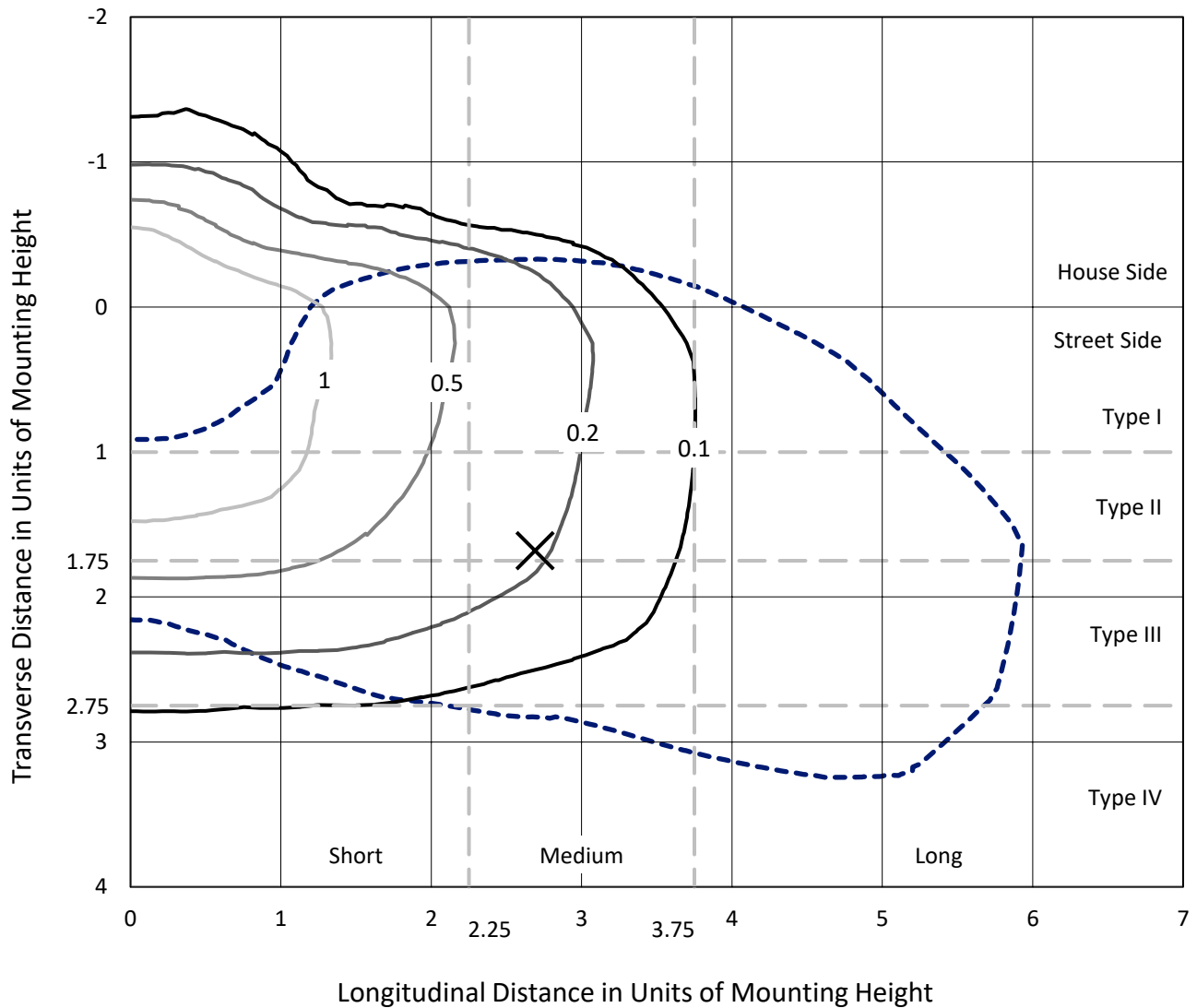
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

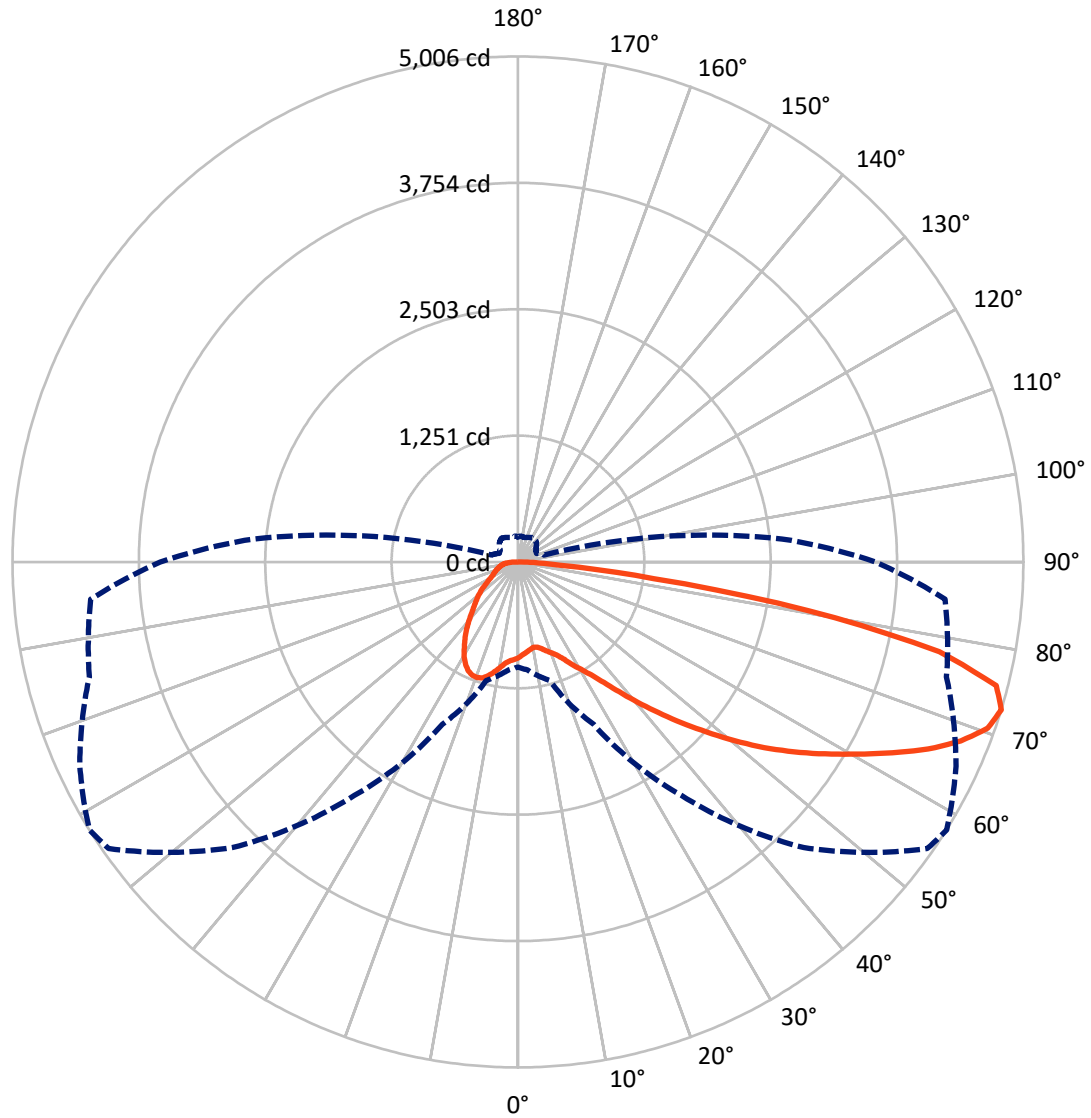
✕ Max cd
 - - - 1/2 Max cd



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

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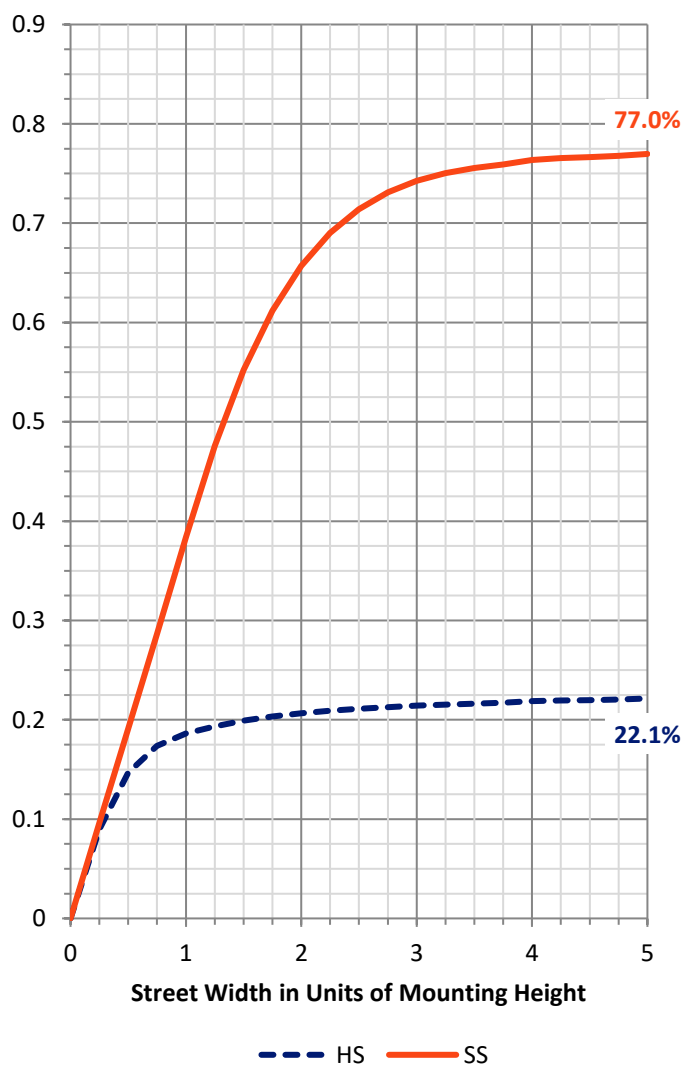
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.9	0.0	2035.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	6941.1	0.0	6941.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	8977.0	0.0	8977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.0
10°-20°	289.7	3.2
20°-30°	518.9	5.8
30°-40°	780.6	8.7
40°-50°	1264.0	14.1
50°-60°	1902.8	21.2
60°-70°	2239.4	24.9
70°-80°	1587.9	17.7
80°-90°	302.6	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°	8977.0	100.0
0°-180°	8977.0	100.0

Coefficient of Utilization

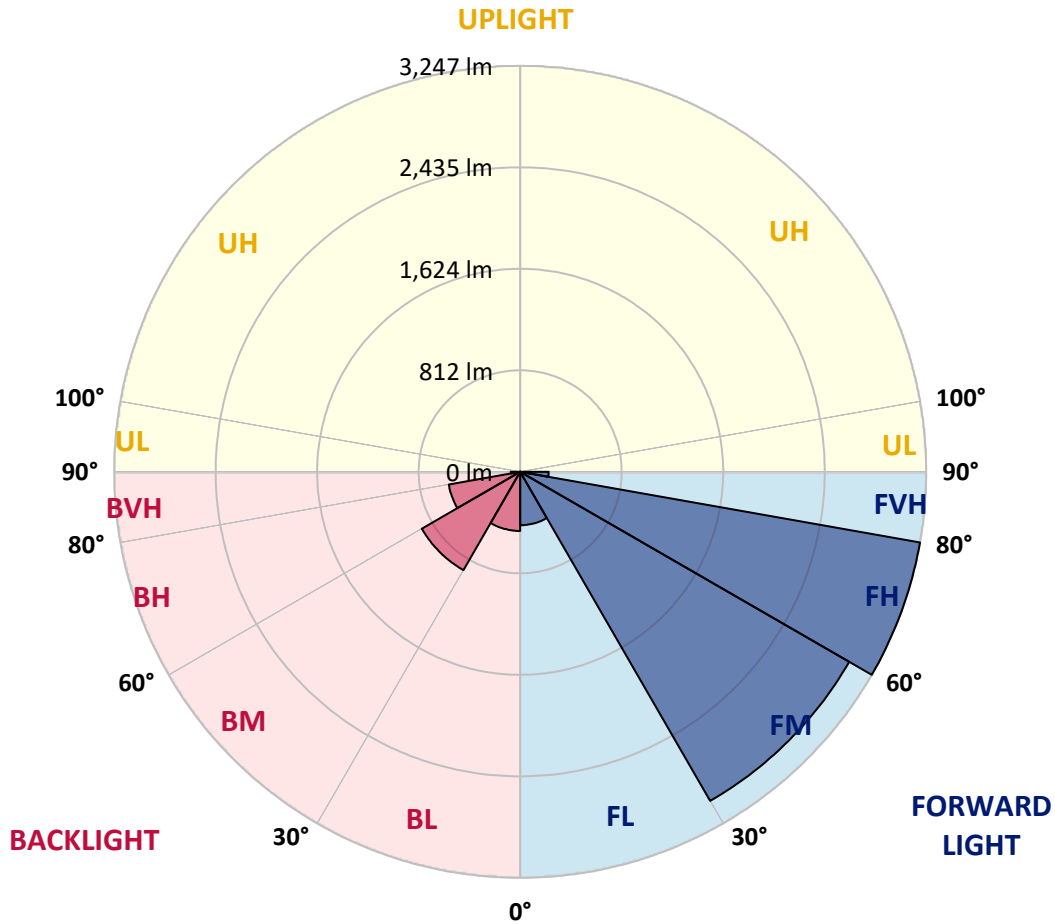


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.9	4.8			
FM (30°-60°)	3039.0	33.9			
FH (60°-80°)	3247.0	36.2			G2/5000
FVH (80°-90°)	228.2	2.5			G3/500
BL (0°-30°)	472.9	5.3	B1/500		
BM (30°-60°)	908.4	10.1	B1/1000		
BH (60°-80°)	580.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	74.3	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°	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9
2.5°	911.3	906.6	907.8	907.8	912.5	914.9	916.1	919.6	922.0	927.9	936.2
5°	868.7	865.1	866.3	867.5	875.8	884.1	891.2	895.9	903.0	912.5	924.4
7.5°	837.9	835.5	836.7	839.0	846.2	855.6	867.5	874.6	885.3	903.0	923.2
10°	815.3	815.3	816.5	821.3	828.4	840.2	849.7	858.0	879.3	911.3	942.1
12.5°	797.6	797.6	801.1	810.6	822.4	834.3	856.8	866.3	894.7	938.6	975.3
15°	796.4	797.6	798.7	807.0	820.1	846.2	879.3	893.6	927.9	980.1	1022.7
17.5°	815.3	816.5	811.8	814.2	829.6	866.3	910.1	926.7	970.6	1027.5	1071.3
20°	873.4	873.4	859.2	846.2	856.8	897.1	946.9	963.5	1012.1	1074.9	1118.7
22.5°	991.9	997.8	964.7	936.2	919.6	942.1	987.2	1005.0	1059.5	1127.0	1170.9
25°	1135.3	1141.2	1096.2	1055.9	1025.1	1021.5	1051.2	1070.1	1115.2	1185.1	1221.8
27.5°	1274.0	1263.3	1221.8	1183.9	1144.8	1112.8	1135.3	1151.9	1204.0	1257.4	1279.9
30°	1383.0	1374.7	1334.4	1307.1	1270.4	1228.9	1215.9	1233.7	1276.3	1326.1	1338.0
32.5°	1503.9	1497.9	1457.7	1422.1	1391.3	1352.2	1323.7	1332.0	1355.7	1391.3	1398.4
35°	1657.9	1671.0	1628.3	1556.0	1521.6	1483.7	1463.6	1465.9	1483.7	1506.2	1494.4
37.5°	1820.3	1835.7	1838.1	1724.3	1678.1	1643.7	1622.4	1630.7	1652.0	1667.4	1630.7
40°	2121.3	2105.9	2044.3	1960.1	1889.0	1855.8	1826.2	1825.0	1840.4	1867.7	1801.3
42.5°	2520.7	2506.5	2382.0	2273.0	2160.4	2122.5	2064.4	2039.5	2046.6	2081.0	1988.6
45°	2903.5	2897.5	2798.0	2671.2	2536.1	2462.6	2329.9	2269.4	2263.5	2290.8	2180.6
47.5°	3243.6	3217.5	3145.2	3046.9	3032.6	2840.6	2596.5	2514.7	2486.3	2501.7	2378.5
50°	3607.4	3518.5	3419.0	3358.5	3461.6	3282.7	2865.5	2780.2	2710.3	2721.0	2593.0
52.5°	3800.6	3651.2	3586.1	3603.8	3742.5	3673.8	3158.3	3054.0	2941.4	2956.8	2806.3
55°	3634.7	3633.5	3661.9	3772.1	3965.3	3885.9	3436.7	3319.4	3196.2	3199.7	3051.6
57.5°	3407.1	3453.3	3600.3	3843.2	4241.4	4108.7	3710.5	3586.1	3473.5	3455.7	3330.1
60°	3199.7	3250.7	3464.0	3831.4	4337.4	4312.5	3971.2	3862.2	3770.9	3718.8	3622.8
62.5°	2884.5	2922.4	3224.6	3755.5	4256.8	4459.5	4235.5	4160.8	4092.1	3984.3	3938.0
65°	2513.6	2526.6	2845.4	3505.5	4156.1	4516.4	4498.6	4465.4	4399.0	4240.2	4249.7
67.5°	2111.8	2137.9	2417.6	3106.1	3935.7	4490.3	4702.4	4729.7	4651.5	4413.3	4448.8
70°	1684.0	1716.0	1928.1	2553.9	3561.2	4377.7	4890.8	4934.7	4784.2	4470.1	4485.5
72.5°	1041.7	1072.5	1214.7	1774.1	2822.9	3999.7	4948.9	5005.8	4787.7	4394.3	4246.2
75°	360.3	363.8	475.2	850.9	1675.7	3019.6	4759.3	4893.2	4637.2	4118.2	3695.1
77.5°	164.7	170.7	210.9	350.8	743.0	1629.5	3929.7	4265.1	4179.8	3686.8	2844.2
80°	113.8	116.1	145.8	209.8	429.0	573.6	2480.4	2917.7	3067.0	2854.9	1822.7
82.5°	85.3	87.7	112.6	142.2	309.3	278.5	944.5	1355.7	1685.2	1654.4	762.0
85°	81.8	80.6	87.7	94.8	206.2	165.9	305.8	419.5	657.7	562.9	192.0
87.5°	35.6	39.1	90.1	53.3	107.8	77.0	132.7	155.2	200.3	174.2	68.7
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°	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9	946.9
2.5°	939.8	942.1	949.3	959.9	965.8	977.7	986.0	990.7	994.3	995.5	995.5
5°	931.5	936.2	951.6	969.4	986.0	1010.9	1033.4	1046.4	1055.9	1059.5	1060.7
7.5°	933.8	945.7	968.2	994.3	1015.6	1047.6	1074.9	1100.9	1122.3	1130.6	1130.6
10°	956.4	973.0	1003.8	1038.1	1065.4	1098.6	1127.0	1149.5	1174.4	1188.6	1191.0
12.5°	990.7	1010.9	1051.2	1089.1	1119.9	1146.0	1172.0	1188.6	1200.5	1211.2	1213.5
15°	1039.3	1064.2	1104.5	1143.6	1170.9	1187.5	1194.6	1194.6	1193.4	1194.6	1196.9
17.5°	1087.9	1111.6	1151.9	1191.0	1204.0	1194.6	1186.3	1183.9	1182.7	1180.3	1181.5
20°	1135.3	1157.8	1192.2	1221.8	1211.2	1178.0	1167.3	1166.1	1162.6	1160.2	1157.8
22.5°	1182.7	1199.3	1227.7	1238.4	1195.8	1148.3	1135.3	1128.2	1123.5	1117.5	1111.6
25°	1237.2	1242.0	1263.3	1246.7	1157.8	1093.8	1074.9	1064.2	1059.5	1053.5	1048.8
27.5°	1288.2	1288.2	1291.7	1233.7	1102.1	1021.5	993.1	974.1	973.0	971.8	970.6
30°	1334.4	1328.5	1316.6	1194.6	1029.8	932.7	890.0	871.0	878.1	884.1	885.3
32.5°	1388.9	1377.1	1343.9	1141.2	943.3	833.1	781.0	772.7	781.0	788.1	783.3
35°	1474.2	1452.9	1372.3	1079.6	860.4	741.9	692.1	680.2	677.9	676.7	667.2
37.5°	1596.3	1559.6	1394.8	1013.2	778.6	661.3	624.5	599.7	577.1	553.4	549.9
40°	1745.6	1682.8	1410.3	937.4	692.1	593.7	554.6	522.6	484.7	443.2	438.5
42.5°	1909.2	1815.5	1417.4	853.3	616.2	538.0	489.4	449.1	406.5	374.5	368.6
45°	2085.7	1958.9	1411.4	772.7	554.6	490.6	436.1	392.3	357.9	335.4	330.6
47.5°	2257.6	2123.7	1394.8	708.7	507.2	450.3	394.6	354.3	328.3	303.4	297.5
50°	2478.0	2281.3	1374.7	658.9	455.1	410.0	368.6	325.9	296.3	284.4	282.1
52.5°	2722.1	2438.9	1351.0	596.1	404.1	378.0	352.0	314.0	304.6	282.1	278.5
55°	2986.4	2626.1	1346.3	516.7	359.1	355.5	335.4	324.7	327.1	282.1	276.1
57.5°	3264.9	2826.4	1356.9	437.3	322.3	335.4	342.5	334.2	330.6	288.0	276.1
60°	3555.3	3019.6	1324.9	363.8	293.9	318.8	350.8	329.5	303.4	285.6	277.3
62.5°	3837.3	3182.0	1186.3	311.7	272.6	314.0	346.0	311.7	282.1	282.1	278.5
65°	4042.3	3254.2	927.9	273.8	258.3	308.1	337.7	299.8	276.1	284.4	279.7
67.5°	4066.0	3179.6	623.4	244.1	246.5	297.5	318.8	289.2	270.2	291.5	284.4
70°	3920.3	2985.2	381.6	221.6	231.1	278.5	302.2	278.5	261.9	285.6	274.9
72.5°	3542.2	2622.6	269.0	202.6	214.5	260.7	286.8	269.0	250.1	258.3	247.7
75°	2905.8	2032.4	213.3	184.9	197.9	244.1	273.8	254.8	235.8	232.3	225.2
77.5°	2058.5	1302.4	171.8	170.7	180.1	224.0	256.0	238.2	219.2	212.1	207.4
80°	1183.9	638.8	148.1	154.1	163.5	203.8	234.6	219.2	201.5	190.8	183.7
82.5°	452.7	222.8	130.4	133.9	144.6	182.5	213.3	200.3	182.5	192.0	161.2
85°	147.0	122.1	106.7	110.2	120.9	151.7	188.4	177.8	157.6	139.8	129.2
87.5°	65.2	66.4	56.9	62.8	75.8	100.7	137.5	130.4	115.0	96.0	92.4
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)