

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: P272721

Luminaire Tested: **CTKR2-B2-D-UNV-T3**

Issue Date: 9/28/2018

Test Information

Test Method: LM-79-08
Report Number: P272721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-939-11)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 9/28/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CTKR2-B2-D-UNV-T3
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6490 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

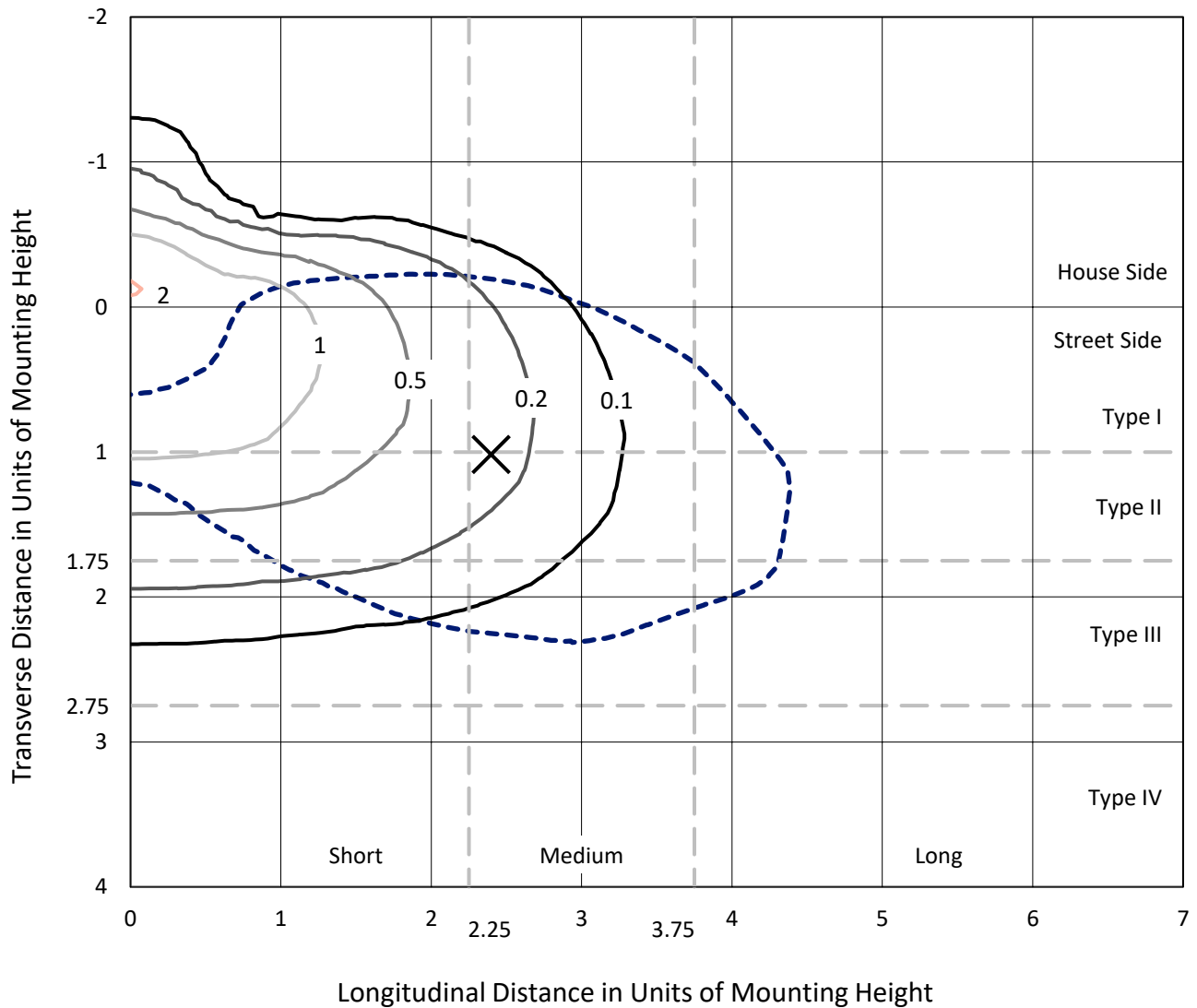
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

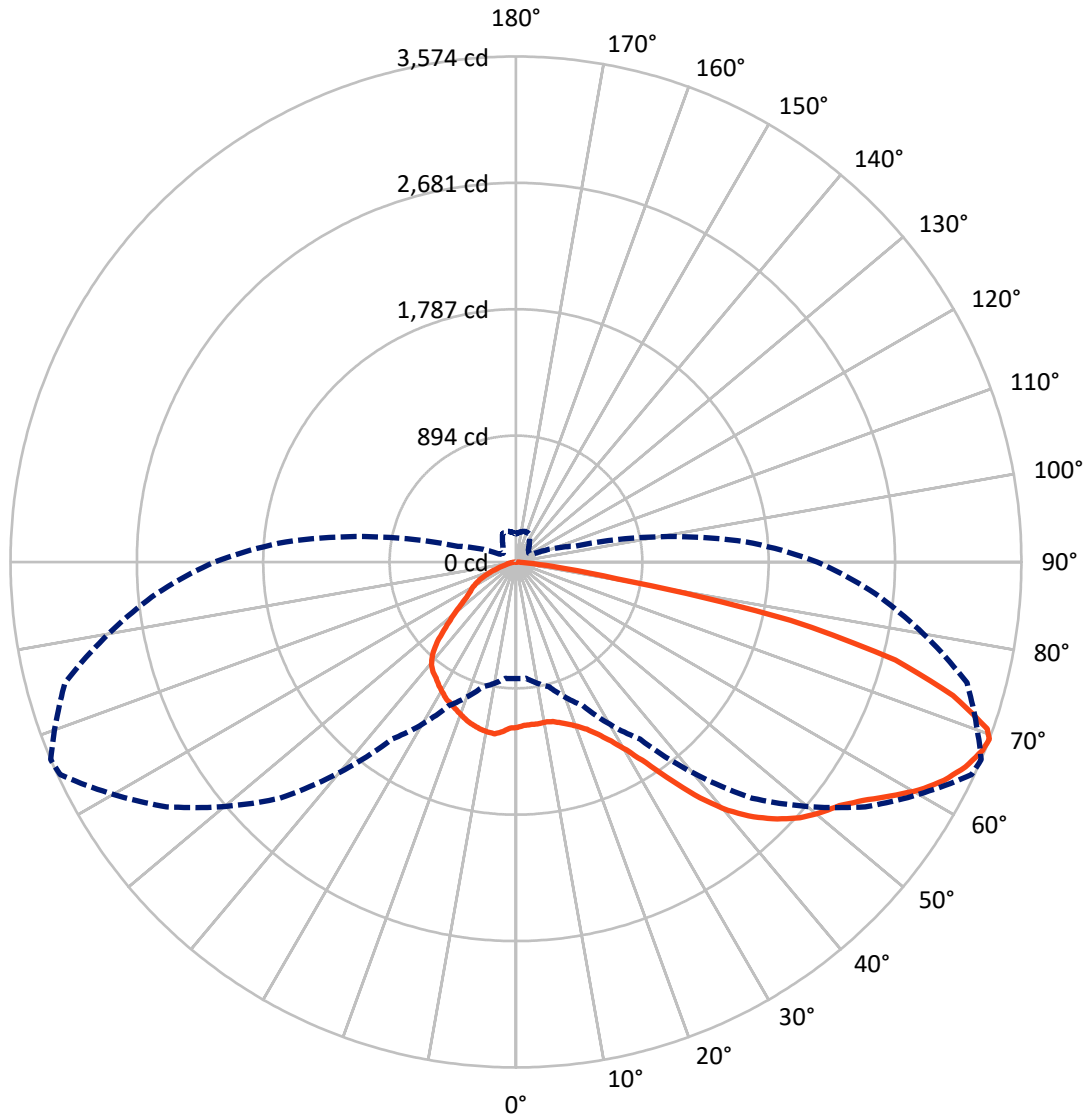
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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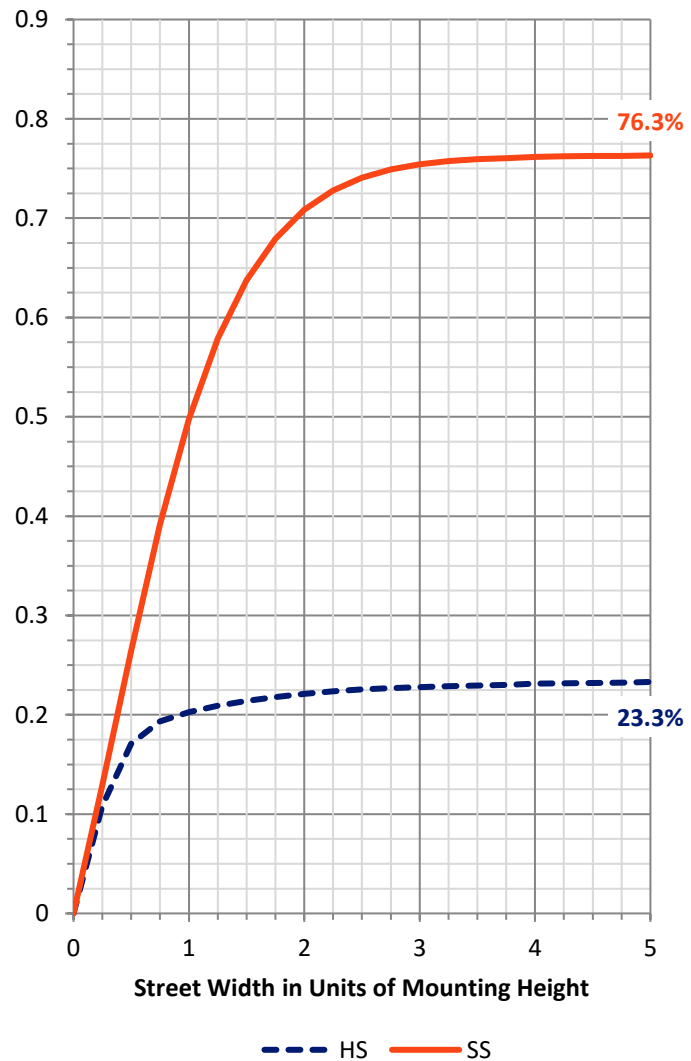
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1534.3	0.0	1534.3
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	4955.7	0.0	4955.7
	% Fixture	76.4	0.0	76.4
Total	Lumens	6490.0	0.0	6490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	1.8
10°-20°	350.7	5.4
20°-30°	577.4	8.9
30°-40°	837.0	12.9
40°-50°	1120.5	17.3
50°-60°	1322.6	20.4
60°-70°	1365.0	21.0
70°-80°	745.6	11.5
80°-90°	55.5	0.9
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°	6490.0	100.0
0°-180°	6490.0	100.0

Coefficient of Utilization

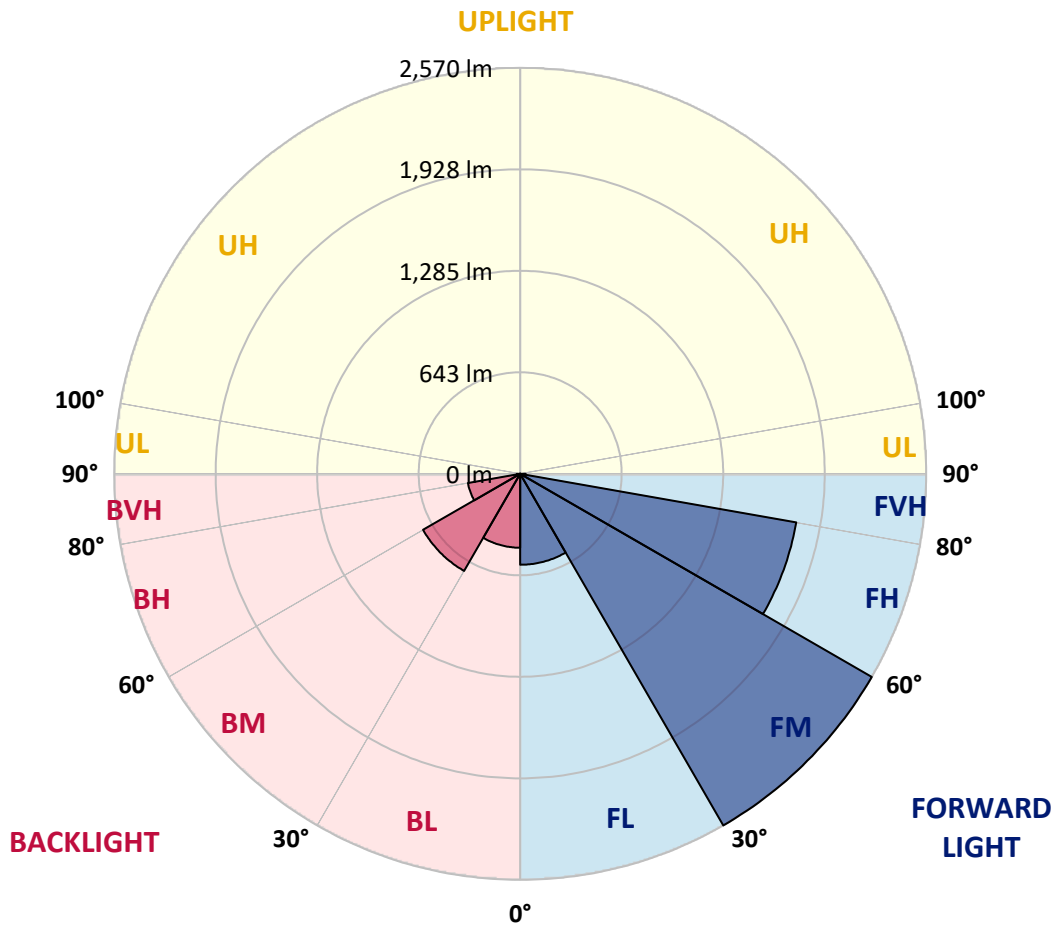


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.8	8.9			
FM (30°-60°)	2570.2	39.6			
FH (60°-80°)	1774.8	27.3			G1/1800
FVH (80°-90°)	34.9	0.5			G1/100
BL (0°-30°)	468.0	7.2	B1/500		
BM (30°-60°)	710.0	10.9	B1/1000		
BH (60°-80°)	335.8	5.2	B1/500		G1/500
BVH (80°-90°)	20.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9
2.5°	1154.2	1153.5	1155.0	1155.0	1154.2	1155.8	1156.6	1156.6	1156.6	1157.4	1158.1
5°	1170.6	1169.9	1169.1	1167.5	1164.4	1162.0	1158.9	1155.0	1154.2	1155.8	1158.9
7.5°	1200.3	1198.7	1196.4	1189.4	1180.0	1172.2	1165.2	1155.8	1155.8	1153.5	1158.9
10°	1230.8	1229.2	1222.2	1213.6	1199.5	1182.3	1168.3	1152.7	1150.3	1146.4	1154.2
12.5°	1277.6	1275.3	1265.9	1250.3	1229.2	1205.0	1182.3	1161.3	1158.1	1153.5	1161.3
15°	1332.3	1329.9	1319.0	1299.5	1272.9	1237.0	1209.7	1183.1	1179.2	1173.0	1178.4
17.5°	1387.7	1384.6	1374.5	1355.7	1321.4	1278.4	1243.3	1210.5	1206.6	1201.1	1201.1
20°	1451.0	1447.9	1436.9	1411.9	1377.6	1329.9	1283.9	1244.8	1240.1	1237.0	1225.3
22.5°	1518.2	1514.2	1504.1	1479.9	1442.4	1388.5	1332.3	1289.3	1284.7	1284.7	1258.1
25°	1598.6	1593.9	1583.8	1556.4	1522.1	1465.8	1399.5	1351.8	1349.5	1347.9	1304.2
27.5°	1675.9	1671.2	1667.3	1646.2	1615.0	1559.5	1485.4	1434.6	1433.8	1430.7	1365.9
30°	1755.6	1751.7	1747.0	1734.5	1712.6	1661.1	1590.0	1542.4	1543.1	1540.0	1450.2
32.5°	1823.5	1827.4	1835.2	1832.1	1818.0	1778.2	1707.1	1681.4	1692.3	1707.9	1612.6
35°	1890.7	1893.8	1918.8	1934.4	1935.2	1901.6	1857.9	1872.7	1899.3	1957.8	1835.2
37.5°	1939.1	1941.4	1966.4	2000.0	2028.1	2020.3	2026.5	2085.1	2117.1	2167.1	2022.6
40°	1978.1	1984.4	2016.4	2065.6	2127.3	2152.3	2192.9	2274.9	2310.0	2324.1	2141.3
42.5°	1946.9	1950.8	2019.5	2122.6	2223.3	2297.5	2348.3	2436.5	2464.7	2448.3	2250.7
45°	1914.1	1918.0	1986.7	2147.6	2303.0	2430.3	2488.9	2567.7	2592.7	2545.9	2333.5
47.5°	1857.9	1866.5	1950.0	2128.1	2363.1	2556.8	2614.6	2694.3	2704.4	2631.0	2401.4
50°	1797.0	1807.9	1903.9	2107.8	2403.7	2652.9	2711.4	2777.8	2787.2	2708.3	2468.6
52.5°	1725.9	1735.3	1840.7	2067.9	2424.0	2717.7	2768.4	2848.9	2862.9	2805.1	2545.1
55°	1647.0	1655.6	1761.8	2003.9	2408.4	2736.4	2816.1	2959.8	2977.0	2909.8	2611.5
57.5°	1551.0	1563.4	1678.2	1920.3	2357.7	2749.7	2905.9	3099.6	3121.4	3018.3	2663.0
60°	1449.4	1457.2	1570.5	1818.8	2273.3	2756.7	3006.6	3252.6	3275.3	3116.0	2705.2
62.5°	1320.6	1329.2	1434.6	1675.9	2153.1	2727.1	3083.2	3391.6	3398.7	3202.6	2727.1
65°	1133.9	1142.5	1261.2	1505.7	1975.0	2634.9	3098.8	3482.2	3493.2	3270.6	2707.5
67.5°	952.0	955.9	1047.2	1280.7	1726.7	2489.6	3059.7	3536.1	3558.0	3319.8	2640.4
69°	823.9	826.2	915.3	1119.9	1528.3	2361.6	3017.6	3556.4	3574.4	3301.8	2549.0
70°	731.7	732.5	814.5	992.6	1378.4	2242.1	2970.7	3532.2	3536.1	3240.1	2466.2
72.5°	522.5	526.4	570.1	678.6	965.2	1771.2	2683.3	3222.2	3232.3	2953.5	2166.3
75°	191.3	196.0	226.5	321.7	442.8	1099.6	2128.1	2733.3	2770.8	2571.6	1750.9
77.5°	43.0	43.7	50.0	68.7	83.6	226.5	1067.5	1861.0	1983.6	1829.0	1083.9
80°	34.4	34.4	39.0	50.0	55.4	119.5	333.5	670.0	720.0	638.8	320.2
82.5°	25.8	25.8	28.1	31.2	28.9	64.8	132.0	237.4	254.6	222.6	166.3
85°	15.6	15.6	15.6	14.8	9.4	19.5	21.9	35.1	40.6	35.9	41.4
87.5°	7.0	7.0	5.5	4.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9	1169.9
2.5°	1160.5	1162.0	1168.3	1176.9	1189.4	1200.3	1210.5	1218.3	1223.0	1226.1	1226.1
5°	1163.6	1169.9	1185.5	1207.3	1230.8	1251.9	1272.2	1285.4	1293.2	1297.9	1298.7
7.5°	1166.7	1175.3	1201.9	1230.0	1258.1	1280.7	1301.1	1316.7	1326.0	1329.9	1332.3
10°	1162.0	1173.8	1198.7	1223.7	1249.5	1276.1	1298.7	1317.5	1327.6	1330.7	1334.6
12.5°	1169.9	1176.9	1191.7	1212.0	1235.5	1258.1	1283.1	1301.8	1317.5	1324.5	1329.2
15°	1182.3	1182.3	1185.5	1194.8	1213.6	1233.9	1253.4	1267.5	1280.0	1291.7	1296.4
17.5°	1196.4	1188.6	1178.4	1174.5	1179.2	1187.8	1201.9	1207.3	1219.8	1230.8	1237.0
20°	1214.4	1198.7	1169.9	1145.6	1133.1	1126.1	1131.6	1133.9	1143.3	1150.3	1158.9
22.5°	1238.6	1213.6	1165.2	1117.5	1083.9	1056.6	1046.5	1043.3	1044.1	1051.1	1060.5
25°	1276.1	1237.8	1162.8	1089.4	1030.8	981.6	953.5	936.4	933.2	943.4	952.8
27.5°	1324.5	1271.4	1164.4	1066.0	971.5	894.2	842.6	814.5	816.9	827.0	834.8
30°	1387.7	1315.9	1167.5	1028.5	904.3	794.2	716.1	677.1	671.6	675.5	689.6
32.5°	1520.5	1397.1	1171.4	992.6	827.0	682.5	577.1	530.3	531.0	560.7	572.4
35°	1723.5	1566.6	1204.2	944.2	743.5	559.9	436.5	425.6	456.1	498.2	516.2
37.5°	1893.0	1716.5	1291.7	893.4	642.7	428.0	329.6	335.0	369.4	410.8	431.9
40°	2000.8	1811.8	1355.7	834.8	499.8	302.2	241.3	251.5	303.0	350.6	366.3
42.5°	2097.6	1896.9	1396.3	752.8	345.2	214.0	181.2	219.4	277.2	324.9	338.1
45°	2168.7	1960.9	1397.1	642.7	228.0	171.8	170.2	203.8	262.4	305.3	313.9
47.5°	2234.3	2017.2	1356.5	508.4	175.7	161.7	164.8	199.1	260.1	300.7	304.6
50°	2298.3	2068.7	1277.6	409.2	164.8	155.4	160.9	199.1	257.7	288.2	289.7
52.5°	2356.1	2103.1	1161.3	328.0	160.1	151.5	161.7	203.8	257.7	275.7	275.7
55°	2399.8	2100.0	1080.0	261.6	156.2	149.2	165.6	210.1	256.1	261.6	261.6
57.5°	2422.5	2069.5	1005.9	229.6	151.5	148.4	168.7	218.7	254.6	266.3	268.6
60°	2420.9	2039.0	940.3	208.5	146.0	149.2	172.6	218.7	293.6	317.1	311.6
62.5°	2401.4	2003.9	831.7	187.4	139.0	145.3	173.4	230.4	405.3	392.8	387.3
65°	2345.2	1911.0	704.4	164.8	129.6	138.2	172.6	249.9	298.3	285.8	276.5
67.5°	2230.4	1757.1	532.6	142.1	117.1	129.6	167.9	241.3	250.7	240.5	231.2
69°	2131.2	1632.2	425.6	129.6	109.3	124.2	164.0	221.0	224.9	208.5	198.4
70°	2028.1	1529.9	328.8	120.3	103.1	120.3	164.0	211.6	208.5	188.2	179.6
72.5°	1711.0	1190.2	187.4	96.1	82.8	109.3	160.9	195.2	196.0	170.2	157.8
75°	1298.7	785.6	132.0	71.1	62.5	95.3	142.1	178.8	189.8	164.8	148.4
77.5°	697.4	284.3	96.1	49.2	39.0	70.3	109.3	148.4	166.3	142.9	123.4
80°	206.2	143.7	67.2	34.4	27.3	40.6	71.8	113.2	155.4	148.4	139.8
82.5°	132.0	93.7	45.3	23.4	20.3	22.6	32.8	71.8	125.0	139.0	151.5
85°	36.7	28.1	16.4	10.2	10.2	11.7	11.7	31.2	70.3	97.6	115.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.5	8.6	12.5	25.0	32.0
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)