

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: P233470

Luminaire Tested: **VRDN-C01-D-UNV-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: VRDN-C01-D-UNV-T2-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1230mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

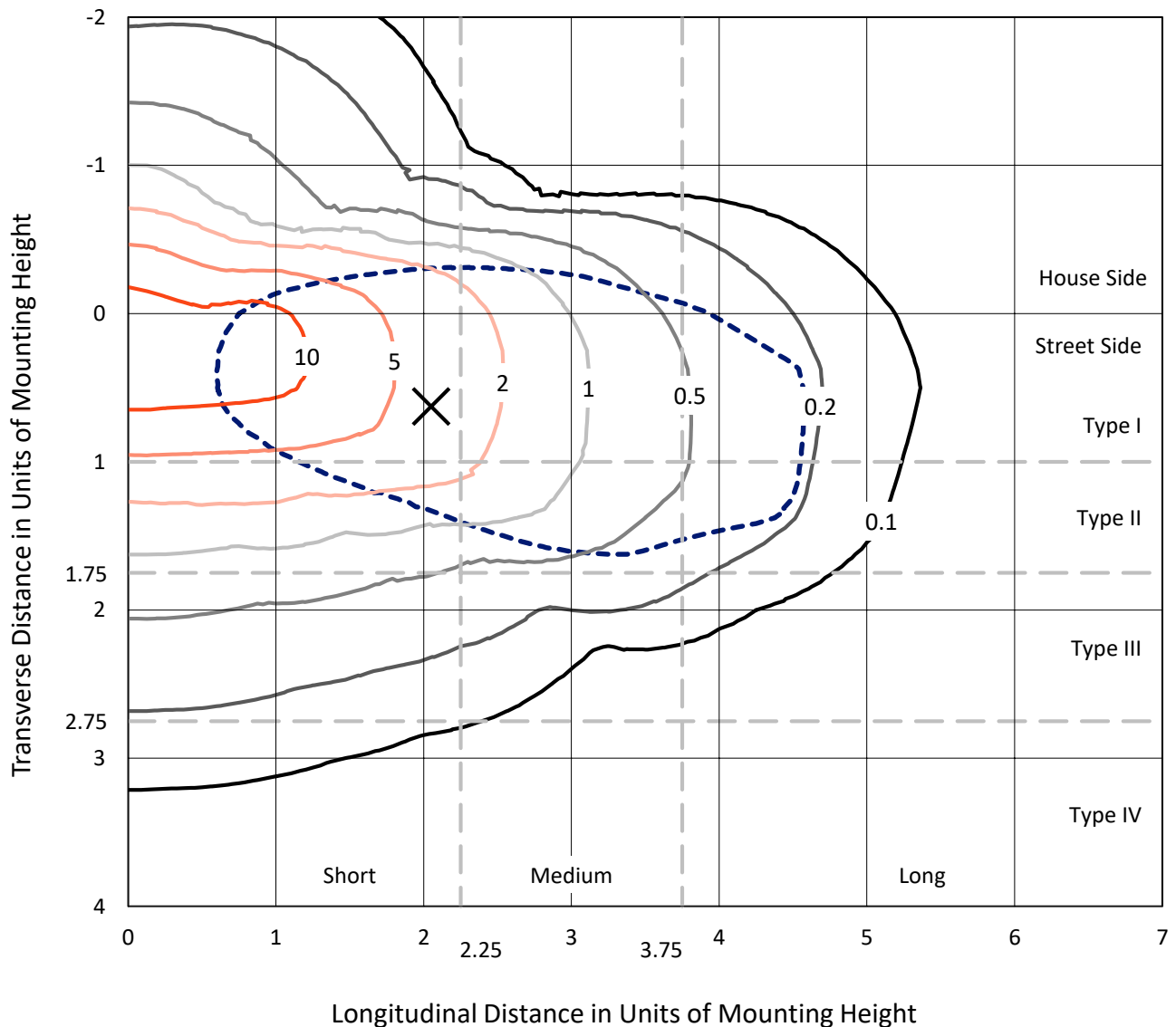
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

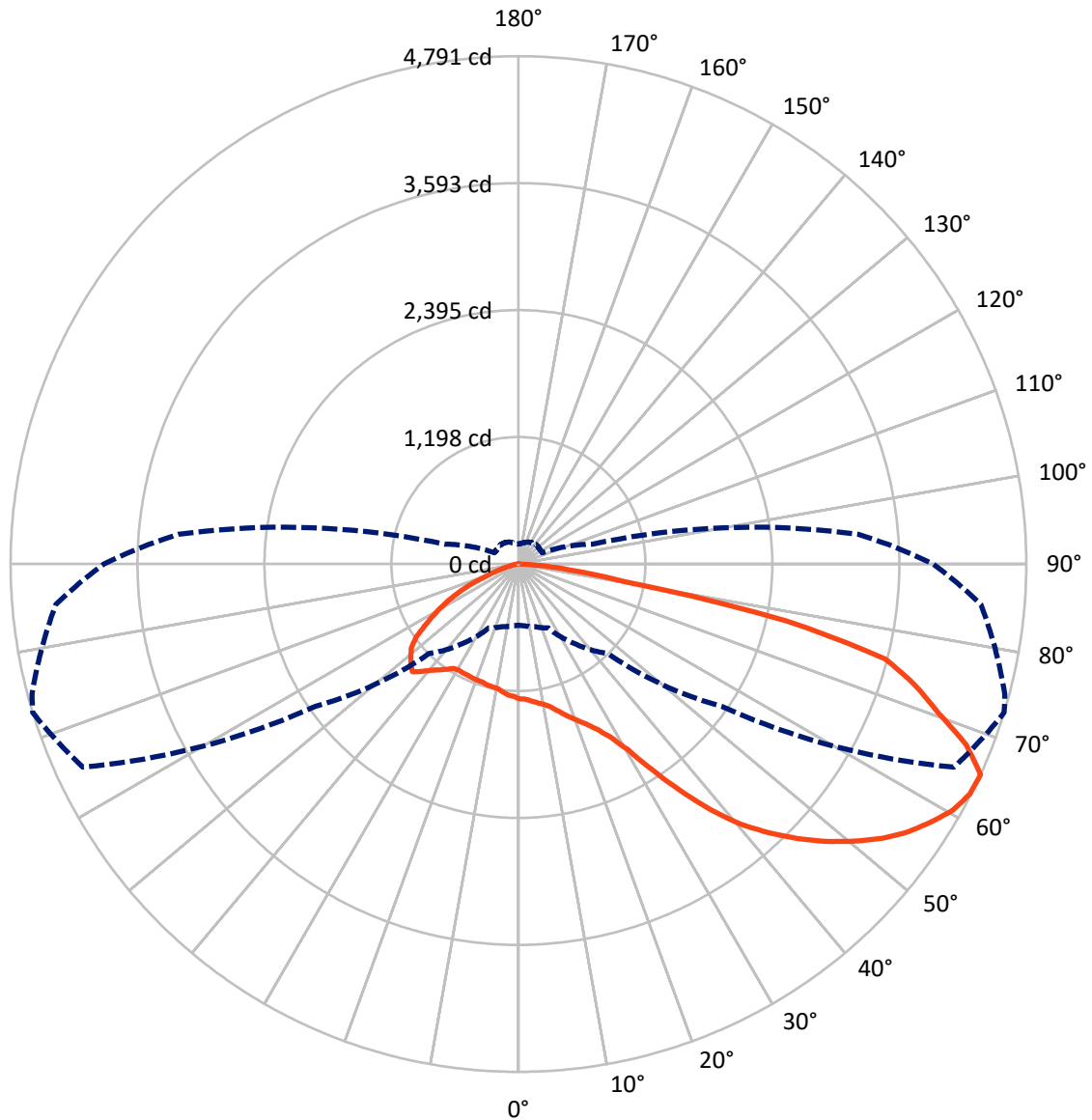
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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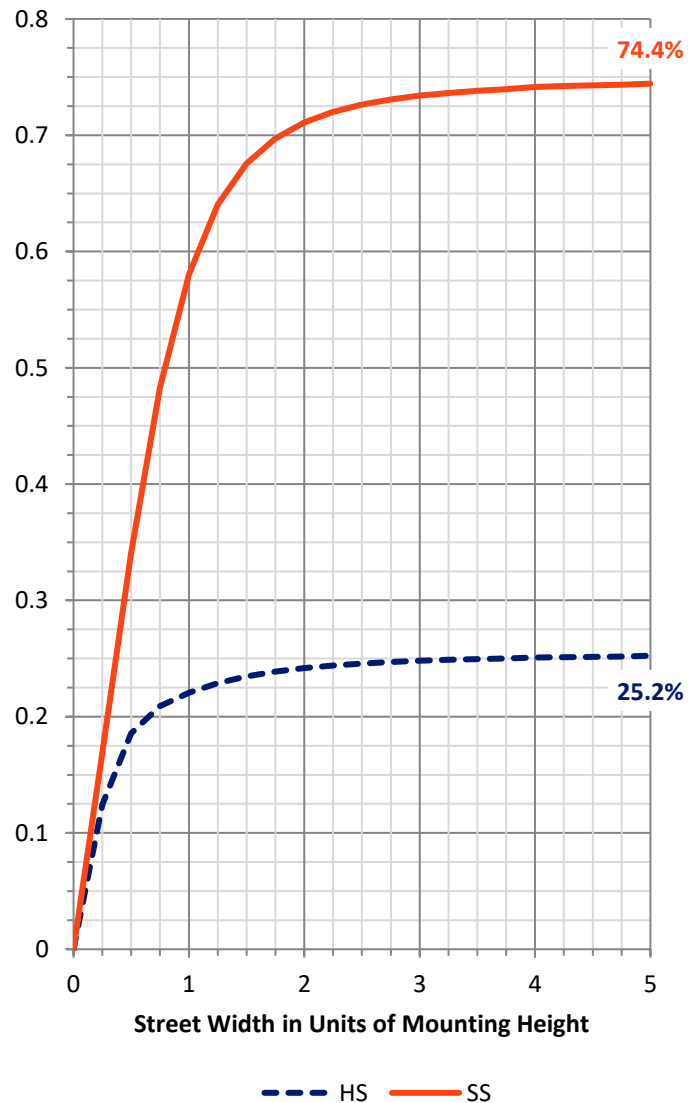
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.7	0.0	1784.7
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	5177.3	0.0	5177.3
	% Fixture	74.4	0.0	74.4
Total	Lumens	6962.0	0.0	6962.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.7
10°-20°	367.3	5.3
20°-30°	616.1	8.8
30°-40°	903.5	13.0
40°-50°	1221.1	17.5
50°-60°	1414.6	20.3
60°-70°	1381.8	19.8
70°-80°	829.8	11.9
80°-90°	106.3	1.5
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°	6962.0	100.0
0°-180°	6962.0	100.0



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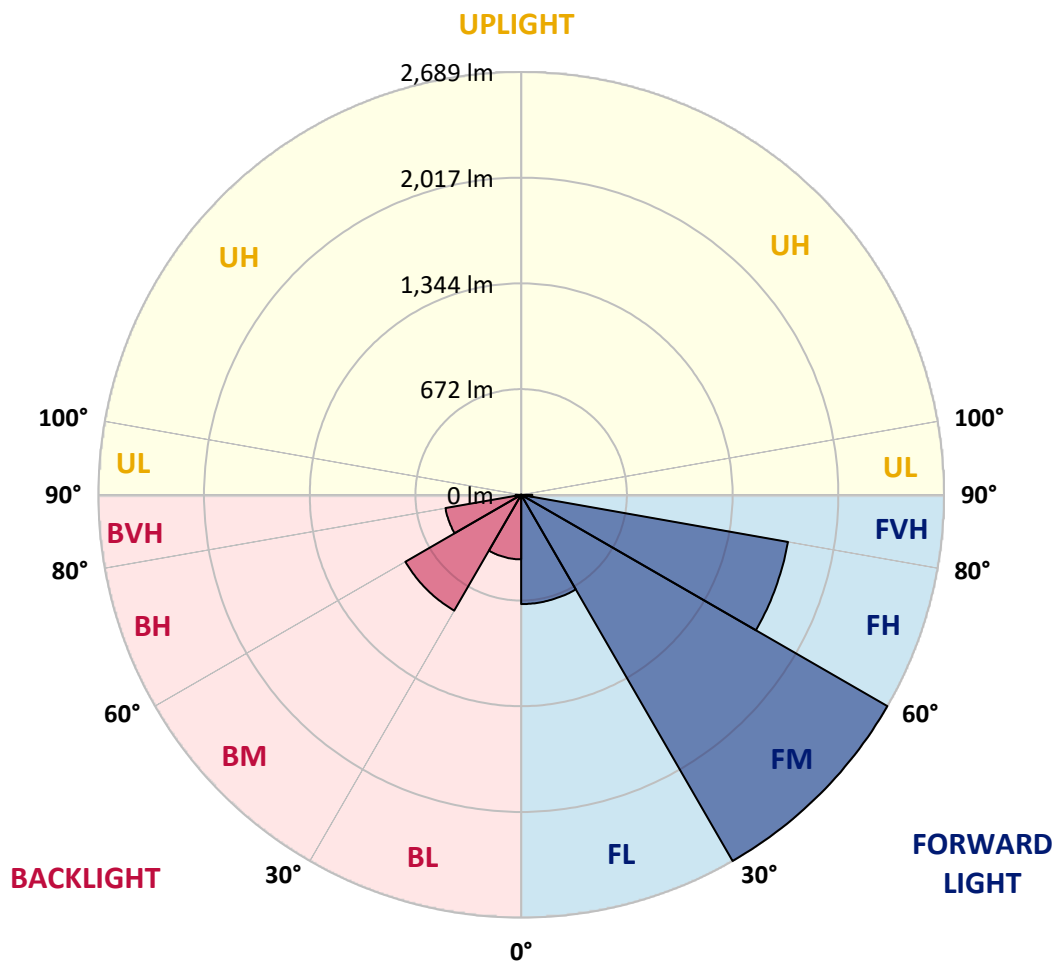
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.7	10.0			
FM (30°-60°)	2688.9	38.6			
FH (60°-80°)	1722.9	24.7			G1/1800
FVH (80°-90°)	70.8	1.0			G1/100
BL (0°-30°)	410.2	5.9	B1/500		
BM (30°-60°)	850.3	12.2	B1/1000		
BH (60°-80°)	488.6	7.0	B1/500		G1/500
BVH (80°-90°)	35.5	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1351.4	1356.4	1350.7	1334.3	1326.1	1320.4	1303.3	1288.2	1276.2	1274.9	1263.5
5°	1403.2	1410.8	1401.3	1380.4	1372.2	1360.2	1341.3	1320.4	1298.9	1294.5	1271.7
7.5°	1468.9	1470.2	1465.1	1444.3	1427.2	1401.9	1369.1	1346.9	1322.3	1315.3	1279.3
10°	1524.6	1523.9	1517.6	1497.4	1480.3	1458.2	1412.1	1376.0	1346.9	1338.1	1288.2
12.5°	1577.7	1576.4	1570.1	1549.2	1527.7	1509.4	1474.6	1426.0	1386.8	1375.4	1313.4
15°	1643.4	1640.2	1630.1	1602.3	1585.2	1563.8	1538.5	1489.8	1444.9	1429.1	1350.1
17.5°	1694.0	1693.3	1685.7	1662.4	1642.1	1618.7	1595.4	1557.4	1508.8	1491.1	1386.1
20°	1723.0	1720.5	1718.6	1700.3	1695.2	1682.6	1649.1	1620.0	1571.3	1553.0	1426.6
22.5°	1754.0	1754.6	1755.3	1745.8	1760.3	1749.6	1724.9	1689.5	1640.2	1619.4	1483.5
25°	1761.0	1762.2	1774.9	1795.7	1813.4	1833.0	1815.3	1780.6	1727.5	1705.3	1561.2
27.5°	1741.4	1746.4	1784.3	1819.7	1882.3	1907.6	1904.4	1902.5	1848.2	1826.1	1668.0
30°	1759.1	1759.1	1785.0	1845.7	1924.7	1991.0	2005.6	2046.0	2029.6	2013.8	1847.6
32.5°	1706.0	1715.4	1761.6	1846.3	1971.4	2068.1	2133.9	2246.4	2311.5	2298.2	2101.6
35°	1606.1	1618.7	1686.4	1815.9	1994.8	2159.2	2276.7	2493.5	2619.3	2635.1	2407.6
37.5°	1529.0	1539.7	1624.4	1768.5	2003.7	2244.5	2441.7	2771.6	2934.1	2925.9	2666.7
40°	1434.8	1453.8	1539.1	1712.3	1982.8	2317.2	2620.6	3027.0	3226.7	3188.8	2913.2
42.5°	1350.1	1366.5	1438.0	1622.5	1953.7	2358.3	2782.4	3289.9	3465.0	3434.7	3146.5
45°	1260.4	1274.9	1341.3	1515.1	1886.1	2378.5	2934.1	3541.5	3693.8	3659.7	3362.6
47.5°	1157.3	1176.9	1255.9	1413.9	1786.9	2365.9	3044.7	3760.2	3911.3	3886.0	3541.5
50°	897.5	917.8	1124.5	1319.1	1649.1	2313.4	3143.9	3978.9	4107.8	4083.8	3699.5
52.5°	814.7	823.6	888.1	1210.4	1505.6	2209.7	3205.9	4159.0	4299.4	4275.3	3848.7
55°	764.2	770.5	806.5	988.6	1383.6	2042.9	3213.5	4346.1	4460.5	4428.9	4007.3
57.5°	712.3	719.3	759.1	852.7	1261.0	1781.8	3133.2	4504.8	4591.4	4557.3	4159.0
60°	668.7	672.5	711.7	776.2	1122.6	1522.7	2926.5	4612.9	4712.1	4667.9	4307.6
62.5°	628.9	634.0	662.4	721.2	1006.3	1328.6	2638.3	4613.5	4778.5	4751.3	4382.8
65°	577.1	584.7	612.5	665.6	912.1	1195.9	2339.9	4533.2	4790.5	4750.0	4379.0
67.5°	517.0	526.5	551.8	594.1	786.9	1054.3	1924.0	4427.7	4556.0	4549.0	4198.2
70°	457.0	457.0	485.4	519.6	652.9	902.6	1520.1	4051.6	4198.2	4209.0	3874.0
72.5°	385.6	386.8	409.0	438.7	525.9	740.8	1107.4	3463.8	3913.8	3783.6	3494.1
75°	323.6	322.4	345.1	369.8	427.9	583.4	722.5	2544.7	3576.9	3606.0	3075.0
77.5°	171.9	165.6	194.7	214.3	250.9	324.3	400.7	1276.2	2590.2	2647.1	2461.9
80°	48.7	49.3	128.9	144.1	165.0	160.5	185.8	486.7	1024.6	1154.8	1435.4
82.5°	29.1	33.5	73.3	86.0	64.5	41.7	70.8	270.5	530.3	594.1	712.3
85°	15.2	16.4	25.9	32.2	24.7	20.9	21.5	113.8	257.9	262.3	284.4
87.5°	7.0	7.0	9.5	10.1	6.3	3.8	2.5	1.9	1.9	1.3	1.3
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°	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1254.7	1261.0	1250.2	1242.0	1235.7	1231.9	1227.5	1216.7	1219.9	1224.3	1223.7
5°	1261.0	1264.1	1245.2	1219.3	1195.3	1178.2	1166.8	1149.7	1149.7	1156.7	1156.7
7.5°	1266.7	1262.3	1223.7	1180.1	1152.9	1139.0	1120.7	1102.3	1099.2	1104.2	1104.9
10°	1269.8	1250.9	1197.1	1156.7	1121.3	1092.9	1069.5	1048.6	1048.0	1054.9	1056.2
12.5°	1283.7	1247.1	1195.3	1139.6	1086.5	1056.2	1028.4	1005.0	996.8	997.4	998.7
15°	1305.2	1262.3	1192.7	1116.2	1058.7	1018.3	977.8	948.1	940.5	950.6	954.4
17.5°	1331.1	1286.9	1180.7	1094.8	1024.6	975.9	935.5	908.9	884.9	874.2	872.3
20°	1365.3	1307.8	1187.0	1063.1	991.7	926.6	876.1	843.8	823.6	822.3	821.1
22.5°	1410.2	1331.1	1188.3	1042.3	939.9	872.3	809.7	791.4	755.3	742.1	747.7
25°	1469.6	1366.5	1185.1	1020.2	900.1	809.1	733.8	700.3	687.1	671.9	673.2
27.5°	1546.1	1422.8	1193.4	991.1	835.0	731.9	647.9	611.8	591.6	579.0	580.9
30°	1701.5	1508.1	1192.7	963.3	774.9	652.3	557.5	533.5	513.2	501.9	507.6
32.5°	1922.8	1693.3	1219.3	926.0	706.7	545.5	481.6	454.5	437.4	424.8	427.9
35°	2196.5	1895.0	1287.5	875.4	628.9	463.9	420.3	386.8	366.0	360.9	359.0
37.5°	2450.6	2073.2	1352.0	841.9	539.8	419.1	364.1	330.6	312.2	318.6	318.6
40°	2677.5	2309.6	1424.7	788.2	458.9	367.9	301.5	286.3	276.8	287.6	291.4
42.5°	2848.8	2536.5	1523.3	717.4	393.2	307.2	257.9	268.6	272.4	280.0	278.1
45°	3061.1	2666.1	1620.6	651.7	335.6	256.0	249.0	271.2	280.0	287.0	283.8
47.5°	3256.4	2766.6	1601.0	530.3	282.5	247.8	253.5	271.2	286.3	297.7	295.8
50°	3424.6	2892.4	1563.8	412.1	271.2	255.4	257.9	264.2	287.0	294.5	294.5
52.5°	3529.5	3016.9	1517.6	333.1	279.4	264.8	260.4	259.8	275.0	280.6	275.6
55°	3655.9	3145.8	1398.1	309.1	282.5	271.2	267.4	261.7	266.1	261.7	264.2
57.5°	3796.2	3272.9	1214.8	302.1	280.6	269.3	289.5	259.2	256.6	240.8	237.0
60°	3919.5	3322.8	1054.3	286.3	270.5	264.2	269.3	256.0	243.3	222.5	214.3
62.5°	3965.6	3318.4	891.2	269.9	255.4	256.6	256.0	246.5	235.1	214.3	209.2
65°	3910.0	3217.3	722.5	250.3	243.3	248.4	242.1	228.2	209.2	192.2	187.7
67.5°	3721.7	2959.4	536.6	224.4	223.8	233.2	228.8	209.8	189.0	175.7	175.7
70°	3361.4	2642.1	347.6	186.5	200.4	216.8	216.8	196.6	169.4	158.0	161.2
72.5°	2967.0	2273.6	225.0	138.4	158.0	196.6	195.3	181.4	156.1	141.6	142.2
75°	2570.0	1803.9	145.4	95.4	102.4	167.5	173.2	147.9	121.4	103.7	100.5
77.5°	1953.7	1357.1	92.3	55.6	65.1	102.4	131.5	123.3	123.9	151.1	149.8
80°	1201.6	817.9	67.0	27.2	32.2	67.0	106.2	117.6	165.0	108.7	99.9
82.5°	601.7	382.4	35.4	16.4	18.3	29.7	63.2	141.0	120.1	72.1	68.3
85°	225.0	103.0	10.7	8.2	10.1	15.2	25.9	128.9	76.5	57.5	56.3
87.5°	1.3	1.9	1.9	2.5	3.8	4.4	9.5	61.3	38.6	27.8	26.5
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)