

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: STREETWORKS

Report Number: P129299

Luminaire Tested: **VERD-A028-E-U-T2-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A028-E-U-T2-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K LEDS AT 80% STANDARD LUMENS AND TYPE II OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7858 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

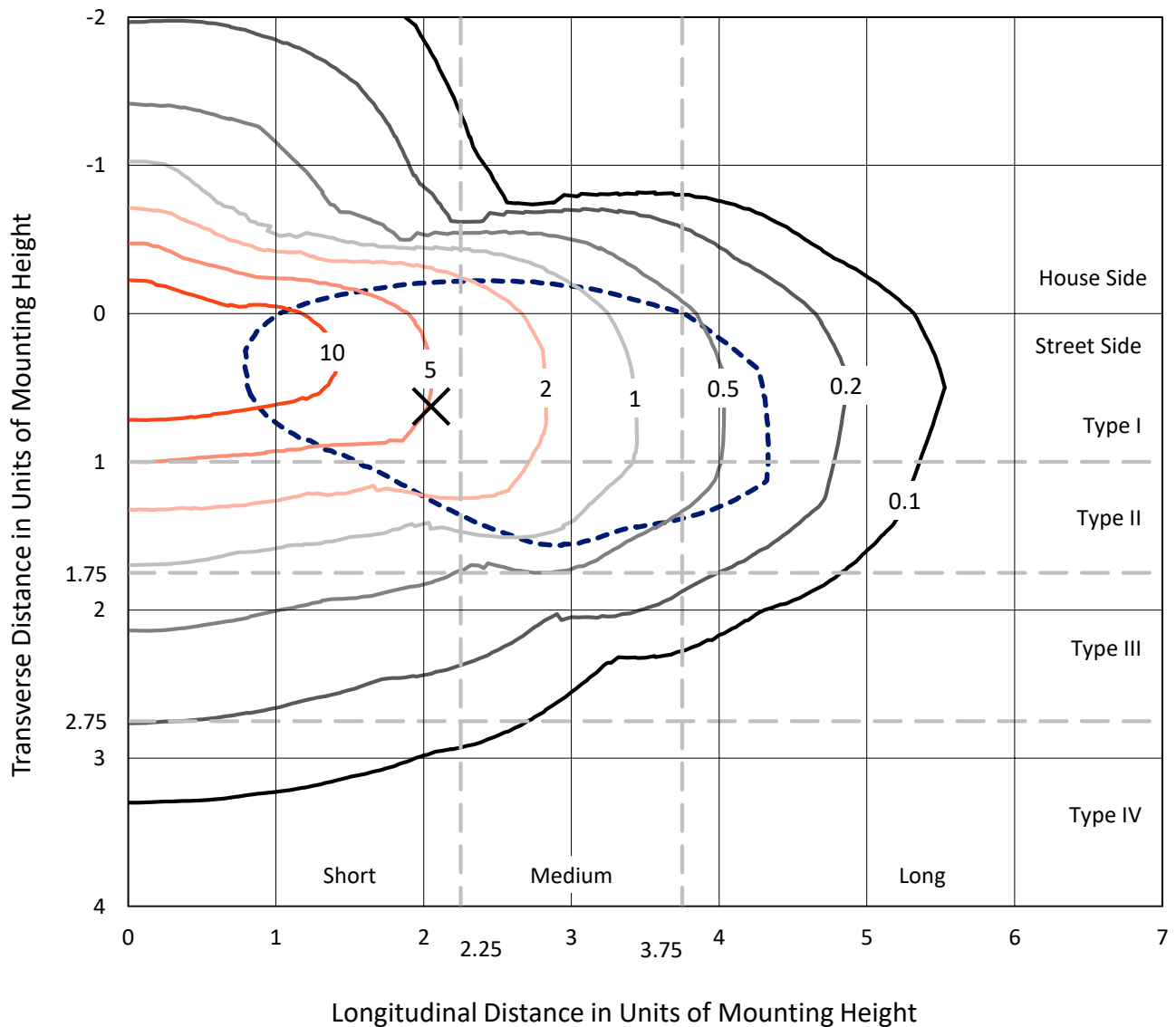
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

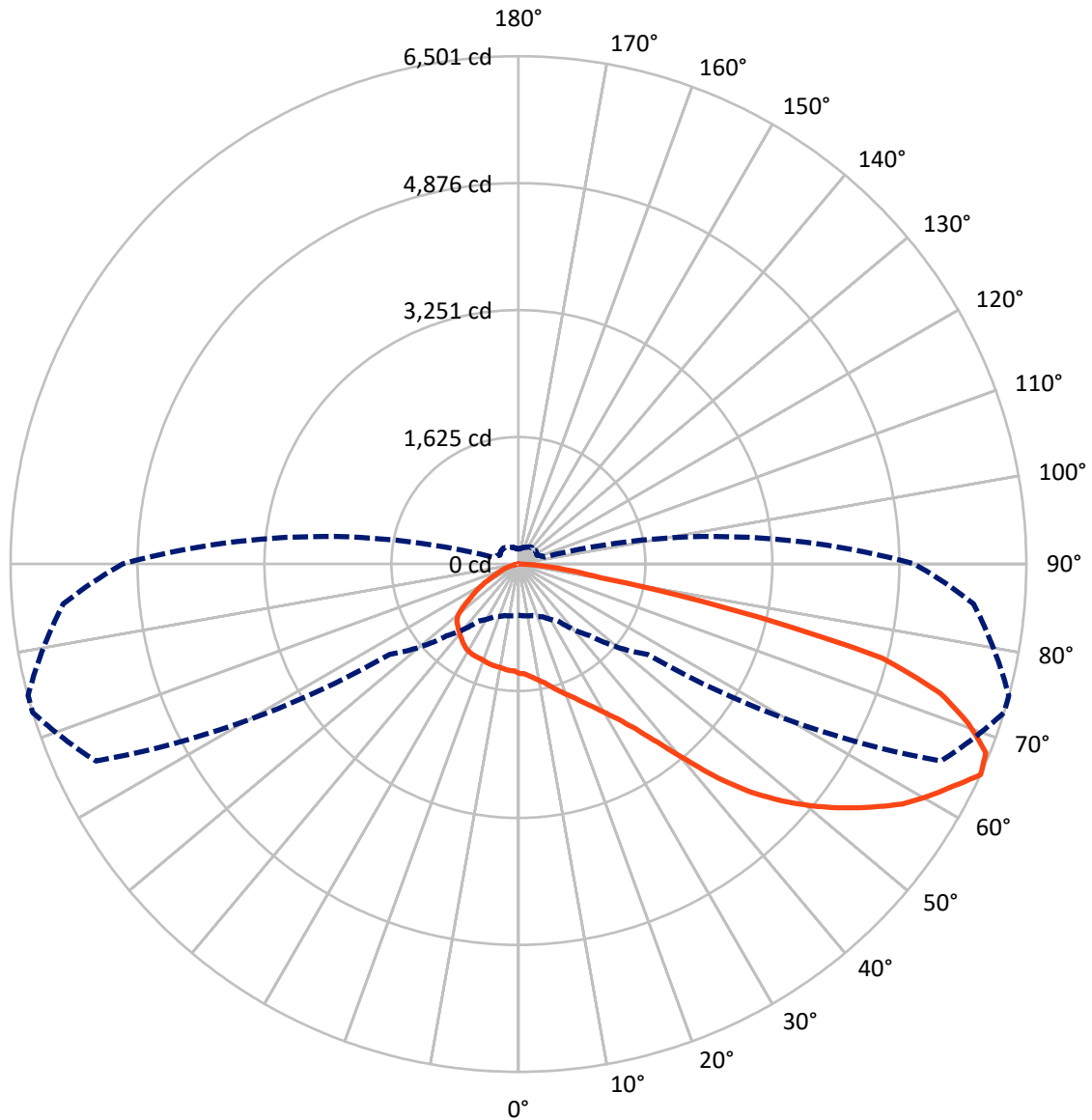


Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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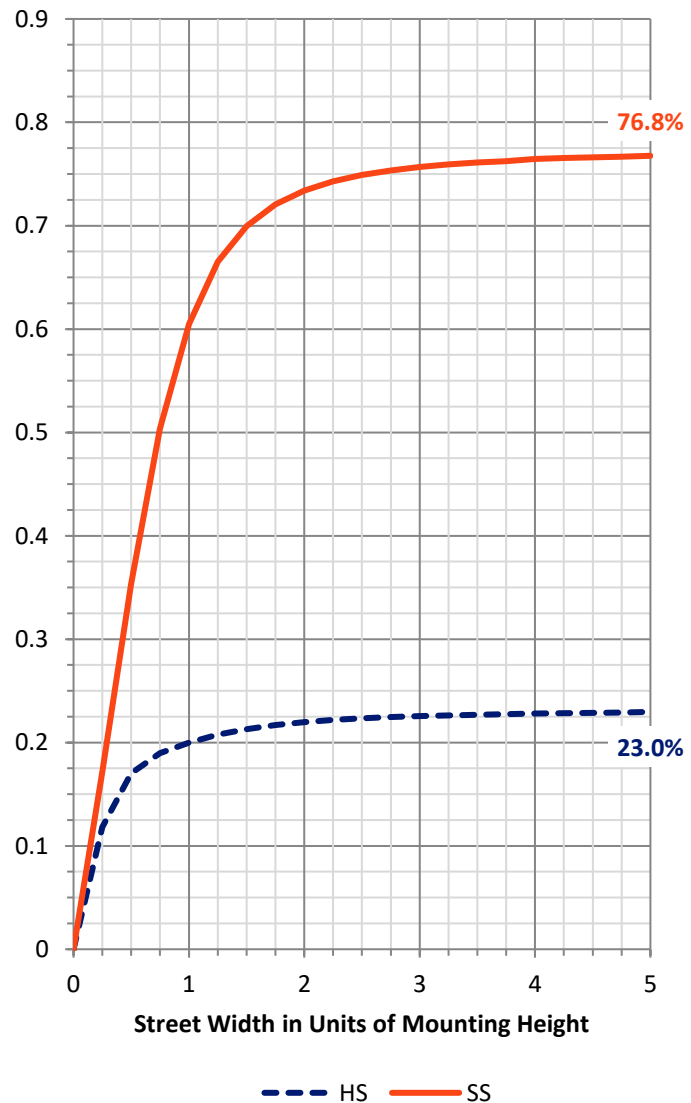
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.2	0.0	1830.2
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	6027.8	0.0	6027.8
	% Fixture	76.7	0.0	76.7
Total	Lumens	7858.0	0.0	7858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.7
10°-20°	420.7	5.4
20°-30°	706.4	9.0
30°-40°	967.6	12.3
40°-50°	1291.0	16.4
50°-60°	1550.7	19.7
60°-70°	1650.2	21.0
70°-80°	1022.6	13.0
80°-90°	113.3	1.4
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°	7858.0	100.0
0°-180°	7858.0	100.0



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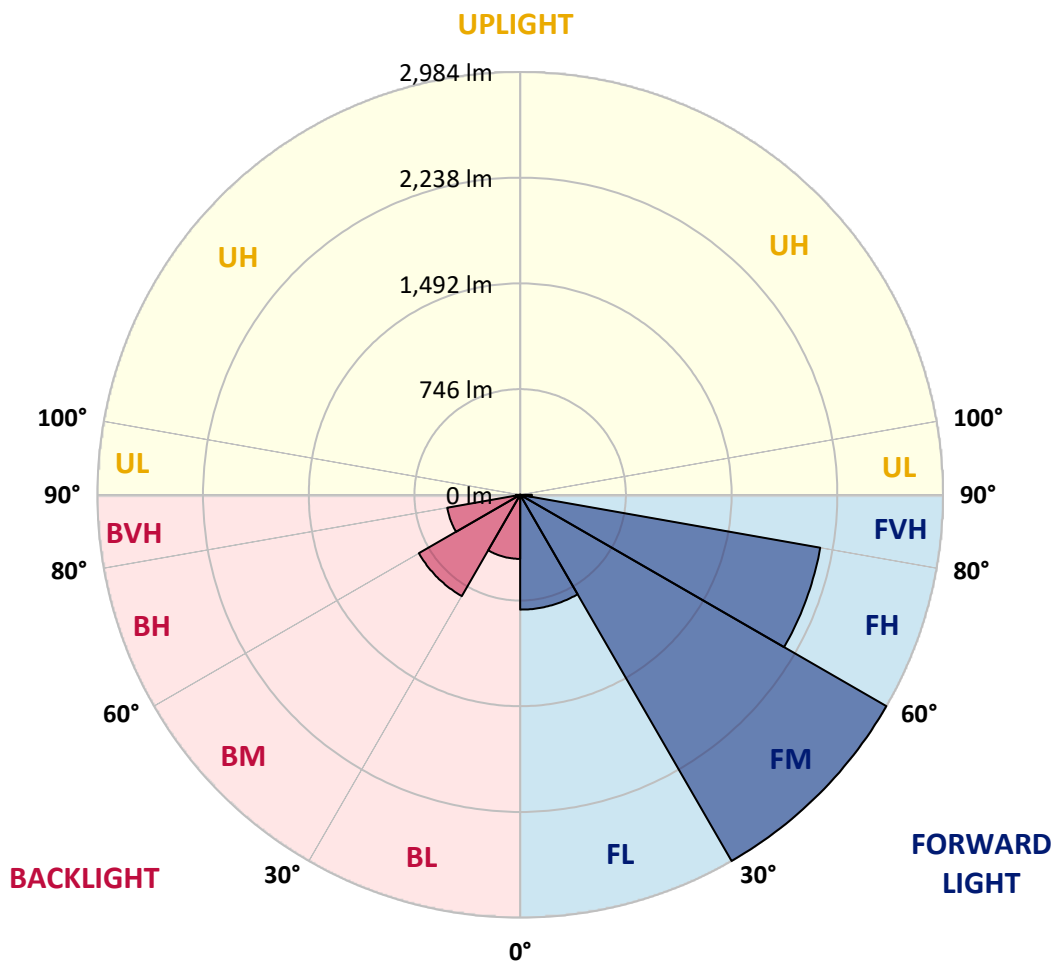
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.4	10.3			
FM (30°-60°)	2984.1	38.0			
FH (60°-80°)	2150.2	27.4			G2/5000
FVH (80°-90°)	83.1	1.1			G1/100
BL (0°-30°)	452.2	5.8	B1/500		
BM (30°-60°)	825.2	10.5	B1/1000		
BH (60°-80°)	522.6	6.7	B2/1000		G2/1000
BVH (80°-90°)	30.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1490.6	1487.3	1488.1	1484.7	1474.6	1463.6	1442.4	1424.7	1406.1	1402.7	1394.2
5°	1563.3	1561.7	1562.5	1557.4	1542.2	1522.8	1492.3	1463.6	1437.4	1430.6	1415.4
7.5°	1631.0	1631.0	1629.3	1620.8	1603.1	1578.6	1549.0	1511.8	1476.3	1467.0	1442.4
10°	1726.5	1722.3	1721.5	1707.1	1675.0	1641.1	1606.5	1564.2	1518.5	1505.0	1461.0
12.5°	1826.3	1822.1	1823.8	1803.5	1768.0	1712.2	1675.8	1625.9	1570.1	1555.7	1496.6
15°	1926.1	1918.5	1921.0	1903.2	1866.9	1816.2	1756.1	1700.3	1639.4	1622.5	1538.8
17.5°	2004.7	1999.6	2004.7	1992.0	1959.0	1911.7	1842.4	1783.2	1711.3	1692.7	1585.3
20°	2058.0	2058.8	2069.8	2066.4	2042.8	1998.8	1931.1	1867.7	1784.0	1763.7	1637.8
22.5°	2089.3	2092.6	2117.2	2138.3	2130.7	2080.0	2025.8	1954.8	1866.9	1846.6	1696.1
25°	2097.7	2102.8	2151.0	2205.9	2213.5	2173.8	2127.3	2049.5	1969.2	1947.2	1771.3
27.5°	2117.2	2121.4	2169.6	2232.1	2278.7	2260.9	2229.6	2153.5	2081.6	2057.1	1856.7
30°	2094.3	2097.7	2150.1	2233.0	2315.0	2340.4	2332.8	2272.7	2216.9	2189.0	1948.1
32.5°	1980.2	1994.6	2068.1	2207.6	2344.6	2418.2	2438.5	2412.2	2376.7	2345.4	2058.0
35°	1869.4	1879.6	1974.3	2148.4	2342.1	2483.3	2556.8	2596.6	2593.2	2561.9	2235.5
37.5°	1779.0	1790.8	1867.7	2063.0	2318.4	2545.8	2689.6	2829.9	2893.3	2873.9	2543.3
40°	1671.6	1685.9	1756.1	1949.7	2262.6	2584.7	2855.3	3091.2	3279.7	3290.7	2936.5
42.5°	1537.1	1560.0	1623.4	1805.2	2182.3	2606.7	3020.2	3380.4	3741.4	3748.1	3303.4
45°	1417.9	1436.5	1496.6	1653.0	2066.4	2608.4	3169.8	3693.2	4160.8	4154.8	3633.2
47.5°	1303.8	1328.3	1388.3	1524.5	1907.5	2573.7	3286.5	4009.4	4525.2	4514.2	3965.4
50°	997.7	1026.4	1236.1	1404.4	1721.5	2478.2	3368.5	4334.1	4867.6	4854.1	4280.8
52.5°	903.0	908.9	971.5	1270.8	1582.0	2294.7	3390.5	4672.3	5185.5	5159.3	4559.8
55°	855.7	855.7	885.2	1045.9	1407.8	2008.9	3322.9	4998.7	5492.4	5462.8	4841.4
57.5°	797.3	799.0	841.3	916.5	1239.5	1735.8	3140.2	5320.0	5795.1	5763.8	5114.5
60°	750.0	752.5	791.4	855.7	1071.3	1511.8	2780.9	5597.3	6033.6	5999.7	5393.5
62.5°	708.5	711.1	738.1	804.9	979.9	1392.6	2406.3	5752.0	6256.8	6241.6	5654.8
65°	656.1	664.6	683.2	744.9	891.2	1297.9	2016.5	5967.6	6501.1	6498.6	5847.6
67.5°	590.2	597.8	615.5	671.3	806.6	1188.8	1780.6	6136.7	6452.9	6451.2	5826.4
70°	511.5	511.5	537.7	589.3	703.5	1051.8	1565.9	5674.2	6109.7	6097.8	5427.3
72.5°	424.4	425.3	451.5	503.1	594.4	874.3	1204.9	4838.0	5644.6	5672.5	4811.8
75°	365.3	366.1	388.9	436.3	504.8	695.0	844.7	2584.7	4812.6	4834.6	4050.0
77.5°	218.1	213.9	244.4	279.9	320.4	399.9	520.8	1311.4	2748.8	3174.9	2961.0
80°	54.1	55.8	149.7	178.4	196.2	181.8	233.4	526.8	1075.5	1237.8	1690.2
82.5°	30.4	33.8	89.6	110.8	107.4	54.1	79.5	259.6	611.3	688.2	808.3
85°	14.4	16.1	31.3	44.8	35.5	33.8	28.7	111.6	323.0	373.7	396.5
87.5°	7.6	7.6	14.4	17.8	16.1	16.1	11.8	8.5	5.9	6.8	5.1
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°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1393.4	1387.5	1373.1	1357.9	1352.8	1343.5	1343.5	1341.8	1336.8	1329.1	1319.0
5°	1406.9	1395.9	1373.1	1346.9	1326.6	1305.5	1296.2	1287.7	1280.1	1266.6	1257.3
7.5°	1423.0	1404.4	1368.0	1328.3	1291.1	1262.3	1245.4	1231.9	1220.9	1211.6	1203.2
10°	1435.7	1406.1	1356.2	1305.5	1253.9	1213.3	1190.5	1174.4	1161.7	1159.2	1149.9
12.5°	1461.9	1417.9	1352.8	1291.1	1226.8	1182.0	1148.2	1118.6	1107.6	1095.8	1091.6
15°	1497.4	1442.4	1352.8	1274.2	1198.9	1139.7	1099.2	1073.0	1042.5	1037.4	1024.8
17.5°	1532.9	1465.3	1347.7	1245.4	1157.5	1087.3	1034.1	1005.3	987.6	958.0	949.5
20°	1568.4	1490.6	1340.1	1210.8	1105.9	1020.5	954.6	915.7	918.2	870.0	870.9
22.5°	1603.1	1516.8	1337.6	1177.0	1051.8	939.4	861.6	814.2	816.8	781.3	772.8
25°	1658.9	1553.2	1341.8	1146.5	990.1	846.4	755.9	711.9	719.5	696.7	684.0
27.5°	1727.4	1596.3	1345.2	1109.3	908.9	743.2	650.2	633.3	629.9	605.4	591.0
30°	1795.0	1636.9	1343.5	1057.7	815.1	618.9	572.4	557.2	535.2	511.5	502.2
32.5°	1872.8	1685.9	1335.1	1003.6	713.6	552.1	505.6	483.6	453.2	427.8	432.9
35°	1996.3	1757.8	1315.6	938.5	589.3	496.3	436.3	404.2	380.5	356.0	362.7
37.5°	2222.0	1883.8	1291.9	861.6	516.6	433.7	353.4	329.7	319.6	309.5	322.1
40°	2567.8	2142.5	1276.7	763.5	459.1	356.0	279.9	287.5	300.2	291.7	304.4
42.5°	2881.5	2371.7	1265.7	633.3	386.4	277.3	263.8	281.6	295.9	294.2	289.2
45°	3172.4	2578.0	1264.0	481.1	304.4	265.5	264.6	277.3	297.6	295.9	292.5
47.5°	3453.1	2781.7	1251.4	379.6	295.1	270.6	269.7	276.5	301.0	298.5	295.9
50°	3726.2	2961.0	1189.6	339.9	303.5	283.2	274.8	273.1	293.4	294.2	288.3
52.5°	3972.2	3106.4	1046.7	328.9	312.0	294.2	280.7	273.1	277.3	276.5	271.4
55°	4218.3	3239.2	870.9	323.8	315.4	301.8	300.2	278.2	268.9	253.7	259.6
57.5°	4439.8	3370.2	742.4	314.5	309.5	301.8	312.8	279.0	268.0	239.3	235.1
60°	4700.2	3507.2	604.5	303.5	299.3	295.9	295.1	279.0	262.1	229.1	218.1
62.5°	4949.6	3575.7	480.2	285.8	289.2	286.6	277.3	263.8	249.4	225.8	222.4
65°	5068.0	3469.1	345.8	263.0	275.6	279.9	264.6	237.6	216.5	196.2	191.1
67.5°	4942.0	3314.4	274.8	233.4	252.0	268.0	252.0	219.0	193.6	178.4	179.2
70°	4496.4	3097.1	224.1	195.3	217.3	249.4	243.5	208.8	176.7	163.2	164.9
72.5°	4037.3	2693.0	180.9	153.0	162.3	224.1	220.7	198.7	166.6	147.1	147.1
75°	3291.6	1923.5	131.9	110.8	111.6	183.5	198.7	165.7	136.1	109.9	106.5
77.5°	2289.6	1247.1	67.6	64.3	73.6	102.3	153.0	142.9	131.1	127.7	121.8
80°	1333.4	636.7	43.1	29.6	38.0	68.5	120.1	125.1	123.4	83.7	77.8
82.5°	629.9	183.5	25.4	18.6	22.0	32.1	71.0	108.2	102.3	60.0	57.5
85°	253.7	22.0	13.5	11.0	12.7	18.6	33.8	87.1	71.0	55.8	55.8
87.5°	5.1	5.1	5.1	5.1	5.9	8.5	16.9	47.3	38.0	32.1	32.1
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)